Multiple Medications and Vehicle Crashes: Analysis of Databases

Final Report



	Technical Report Documen	ntation Page
1. Report No. DOT HS 810 858	2. Government Accession No.	3. Recipient's Catalog No.
4. Title and Subtitle Multiple Medications and Vehicle Crashes: Analysis of Databases		5. Report DateMay 20086. Performing Organization Code
7. Author(s) Aida A. LeRoy, Pharm.D. and M. Lee Mo	orse	8. Performing Organization Report No.
9. Performing Organization Name and Add Iatrogen, LLC (under contract to Orchid Bio		10. Work Unit No. (TRAIS)
World Gate IV, Suite 500 12801 World Gate Drive Herndon, VA 20170		11. Contract or Grant No. DTNH22-02-C-05075
12. Sponsoring Agency Name and Address' U.S. Department of Transportation National Highway Traffic Safety Administration 1200 New Jersey Avenue SE. Washington, D.C. 20590		Final Report Period: Sept 2002 – Sept 2005 14. Sponsoring Agency Code
15. Supplementary Notes		
drivers and the amount of driving within this as crash involvement and injury. Age-related factor increased prevalence of medical conditions or a study analyzed the association of the impairing (MVC) in individuals age 50 years and greater. combinations of medications used by those who and to conduct a case-control study of possible <i>Results:</i> The results of the study revealed an as MVC. The study showed that the drugs known adults involved in MVCs. The Case Control A PDI diseases, and various combinations of drug medication classes with the highest odds ratios disease classes had statistically significant odds involved in a MVC than older adults taking no were 1.29 times more likely to be involved in a	ge group. With the aging of the American ors may impair driving ability, such as age age-related medical conditions, and increa effects of multiple medication use, drug i <i>Methodology:</i> The main objectives of this o have experienced a MVC and those who associations between the use of medicatic association between the kinds and number of the have an impairing effect on the driving nalysis suggested an association between ges and diseases. Thirty-five of the ninety were classes that have been reported to be a ratios over 1.4. Study subjects taking an medications. Compared to patients taking an MVC and that risk increased to 1.87 mor	t 25 years and with it, an increase in both the number of older a population, concern arises regarding potential increases in rates of e-related decrements in cognitive and physical functioning, used use of multiple medications. Using population databases, this interactions, and drug disease interactions on motor vehicle crashes is study were to determine the relative frequency of various of have not by analyzing proprietary and non-proprietary databases; one (and combinations thereof) and MVCs amongst older drivers. Of medications used by older adults and the risk of involvement in a grability of older drivers were the most commonly used by older MVCs and many potentially driver impairing (PDI) medications, PDI drug classes had odds ratios over 1.2 ($p \le .05$). Many of the e especially problematic in older patients. Seventy-nine of 200 PDI medications were found to be 1.43 times more likely to be gno PDI medications, those taking one or two PDI medications. The risk is without any PDI diseases. Three or more PDI diseases further

MVC. The study showed that the drugs known to have an impairing effect on the driving ability of older drivers were the most commonly used by older adults involved in MVCs. The Case Control Analysis suggested an association between MVCs and many potentially driver impairing (PDI) medications, PDI diseases, and various combinations of drugs and diseases. Thirty-five of the ninety PDI drug classes had odds ratios over 1.2 (p ≤ .05). Many of the medication classes with the highest odds ratios were classes that have been reported to be especially problematic in older patients. Seventy-nine of 200 PDI diseases classes had statistically significant odds ratios over 1.4. Study subjects taking any medication were found to be 1.43 times more likely to be involved in a MVC than older adults taking no medications. Compared to patients taking no PDI medications, those taking one or two PDI medications were 1.29 times more likely to be involved in a MVC and that risk increased to 1.87 more likely in patients taking three or more PDI medications. The risk for patients with one or two PDI diseases was 1.49 times greater than that for older adults without any PDI diseases. Three or more PDI diseases further increased the risk for MVCs to 2.20 times that of older adults with no PDI diseases. Drug interactions were also associated with a statistically significant increased risk of MVCs (odds ratio of 1.47 for 1-2 drug interactions and 1.92 for patients with 3 or more drug interactions). The risk for MVCs among study subjects with at least one drug-disease conflict was 1.2 times that for older adults without any drug-disease conflicts. *Discussion/Conclusions:* The results of this analysis suggest that both the kinds and number of medication exposures, and the characteristics of diseases/disorders present among study subjects may predict an increase in risk for MVCs among older adults. By demonstrating a potential link between multiple drug therapies and MVCs, this research to elucidate the complex interplay of factors affecting

17. Key Word		18. Distribution Statement		
older drivers, drugs; medications; driving;				
polypharmacy; drug-drug interactions; drug-disease conflicts				
19. Security Classif. (of this report)	20. Security Classif. (of	this page)	21. No. of Pages	22. Price
Unclassified	Unclassifie	ed		

Form DOT F 1700.7 (8-72)

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Executive Summary

Introduction

The number of older adults is expected to increase dramatically in the next 25 years. By 2030, over 70 million Americans will be over age 65. This older population will be more mobile than ever. There has been substantial growth in numbers of licensed drivers, and this trend is expected to continue. It is anticipated that there will be an increase in both the number of older drivers and the amount of driving within this age group.

Research results indicate that older adults have a higher rate of fatality and injury in motor vehicle crashes per mile driven than any other age group except for teenagers. With the aging of the American population, concern arises regarding potential increases in rates of crash involvement and injury. In order to devise strategies to address these concerns, it is useful to consider which factors relate to crash involvement among older adults.

Driving is a complex behavior requiring sequences of activities that occur in an intricate and variable environment. Impairments in visual, cognitive, and motor function may affect the driver's ability to drive safely. Many age-related factors may impair driving ability, such as age-related decrements in cognitive and physical functioning, increased prevalence of medical conditions or age-related medical conditions, and increased use of multiple medications.

Because impaired driving is a major cause of motor vehicle crashes (MVC) and injuries, the National Highway Traffic Safety Administration (NHTSA) has long studied the impact of alcohol and illicit drug use on driving ability. NHTSA has also conducted studies to examine the impact of certain legal drugs such as antihistamines, benzodiazepines, and narcotic analgesics. Prior studies (Foley, 1995, Leveille, 1994, Ray, 1992, Hemmelgam, 1997, Hu, 1998, Koepsell, 1994, Sims, 2001, Carr, 2000, Lyman, 2001, Masa, 2000, Edwards, 1995, and McGwin, 2000) addressing drug-crash problems have been limited to selected drugs (typically drugs of abuse or antihistamines, antidepressants, benzodiazepines, or narcotic analgesics) or selected diseases (Alzheimer's, diabetes, epilepsy).

This is the first study to consider the association of the impairing effects of multiple medication use, drug/drug interactions, and drug/disease interactions on motor vehicle crashes in individuals age 50 years and greater. An age cut-off of 50 years was selected to maximize sample size and because age-related changes and corresponding increased medication use begin to occur at this age. Individuals start to receive treatment for high blood pressure, osteoarthritis, hypercholesterolemia, and adult-onset diabetes. Multiple medications (prescription and non-prescription) begin to be used to treat or prevent emergence of age-related conditions.

The major barrier to conducting studies of this nature in the past was costly data collection methods, requiring analysis of blood, saliva, sweat, hair, or urine, police crash reports, arrests, medical examiner reports, hospital reports, self-reported driver surveys, and simulator observations. This study overcomes these constraints by using population databases (the publicly available National Ambulatory Medical Care Survey [NAMCS] and a proprietary patient-level medical insurance claims database).

Methodology

We studied two databases: The NAMCS database and a proprietary insurance claims database (PharMetrics). NAMCS provides statistics on demographic characteristics of patients and services provided, including information on diagnostic procedures, patient management, and planned future treatment. The limitation of this database is that one is not able to link, longitudinally, the medical and pharmaceutical data on a patient-specific basis. We used NAMCS survey data from 1998, 1999, and 2000. There was a total of 71,468 physician/patient visits contained in those three year surveys.

The PharMetrics database is an anonymized, proprietary patient-level medical insurance claims database containing longitudinal medical and pharmaceutical data for thousands of individuals with motor vehicle crash diagnoses and the medications and diseases in a proximal time period to the crash. The PharMetrics Patient-Level Database includes patients enrolled during the time period from January 1998 to March 2002. There were 81,408 cases (patients with a diagnosis code for motor vehicle crashes) and 244,224 age-, sex-, and date-matched controls. Hundreds of drugs and diseases and combinations of drugs and diseases can be studied using a case-control matched pair design or logistic regression analysis of possible associations of medication use among older adults and motor vehicle crashes with this database.

The main objectives of this study were to determine the relative frequency of various combinations of medications used by those who have experienced MVCs and those who have not by analyzing proprietary and non-proprietary databases; and to conduct a case-control study and regression analysis of possible associations between the use of medications (and combinations thereof) and MVCs amongst older drivers.

Results

The results of the study revealed an association between the kinds and number of medications older adults take and the risk of having MVCs. The study suggested that the drugs considered to have an impairing effect on the driving ability of older drivers were the most commonly used by older adults involved in MVCs. Thirty-six percent of the NAMCS survey group over age 50 mentioned use of two or more drugs. More than 58 percent of the over age 50 group mentioned use of one or more potentially driver impairing (PDI) medications. Fourteen percent of the drug mentions involved drug-drug interactions.

The descriptive analysis of the proprietary database identified higher rates of drug use in general than the NAMCS results. Fifty-eight percent of the older adult study subjects received two or more medications. Approximately 64 percent of the older adult study subjects received PDI medications. Nearly 51 percent of the older adult study subjects suffered from potentially driver impairing conditions. We identified 24 percent of the older adult study subjects as concomitantly using medications that are known to interact. Eight percent of the older adult study subjects appeared to be using medicines that presented therapeutic conflicts with diseases/conditions for which they were being treated.

The Case Control Analysis suggested an association between motor vehicle crashes and many potentially driver impairing medications, potentially driver impairing diseases, and various combinations of drugs and diseases. Thirty-five of the 90 potentially driver impairing drug classes had odds ratios over 1.2 ($p \le .05$). Seven of the 15 medication classes with the highest odds ratios are classes that have been reported to be especially problematic in older patients.

Seventy-nine of 200 driver impairing disease classes had statistically significant odds ratios over 1.4. Our results supported previous studies that linked NSAIDS, ACE Inhibitors, anticoagulants, antidepressants, and benzodiazepine use with motor vehicle crashes. We also corroborated previous studies that linked depression, alcoholism, arthritis, history of falls, back pain, diabetes, heart disease, stroke, arrhythmias, coronary artery disease, and sleep apnea with motor vehicle crashes. Most of the drug interaction pairings had higher odds ratios for MVCs than when the drugs were used alone. Though we observed some drug-disease conflicts with statistically significant elevated odds ratios, they involved such small numbers of cases and controls that it is difficult to make any conclusions about these increases in risk.

The number of total medications, PDI medications, PDI diseases, drug-drug interactions, and drug-disease conflicts were used as categorical variables in a regression analysis examining their role in MVCs. Study subjects taking one or more medications were found to be 1.43 times more likely to be involved in MVCs than older adults taking no medications. Compared to patients taking no PDI medications, those taking one or two PDI medications were 1.29 times more likely to be involved in MVCs and that risk increases to 1.87 among patients taking three or more PDI medications.

The risk for patients with one or two PDI diseases was 1.49 times greater than that for older adults without any PDI diseases. Three or more PDI conditions further increased the risk for MVCs to 2.20 times that of older adults with no PDI diseases. Drug interactions were also associated with a statistically significant increased risk of MVCs (odds ratio of 1.47 for 1-2 drug interactions and 1.92 with patients with 3 or more drug interactions). The risk for MVCs among study subjects with at least one drug-disease conflict was 1.2 times that for older adults without any drug-disease conflicts.

Discussion/Conclusions

The results of this analysis suggest that both the kinds and number of medication exposures, and the characteristics of diseases/disorders present among study subjects may predict an increase in risk for MVCs among older adults.

As the population continues to age, an increasingly complex interplay of factors will impact driving safety. Older adults will develop chronic diseases that may have driver impairing characteristics such as heart disease with the potential for arrhythmias and syncope; diabetes with the potential for ketoacidosis, hypoglycemia, and retinal deterioration; depression with the potential for cognitive disturbances; back pain and arthritis leading to physical mobility impairment and distracting pain. Layered onto the underlying chronic diseases are the medications used to treat those conditions along with their potential to exacerbate other coexisting conditions, induce side effects, and promote dangerous drug interactions. By demonstrating the potential link between multiple drug therapies and MVCs, this study serves

to highlight the need for a thorough examination of the relationships among drugs, diseases, and the older driver.

There are limitations to the data used in the case control study, which make it difficult to gauge the strength of these associations. The main limitations are sample size and the inherent weaknesses of administrative claims data. Particularly, in this study, with the diagnostic outcome being an ICD9-CM "E" code to identify patients who were drivers in a motor vehicle crash, the strength of the association of a PDI drug or condition is only meaningful if the "E" code assignment is accurate. (ICD9-CM codes are used by health care providers to bill for services. "E" codes are used in conjunction with diagnostic and procedure codes to classify external causes of injury and other adverse effects).

Additionally, some effects of medications on driver impairment may abate with continued use. This study did not address the contribution to MVCs associated with de novo exposure (initiation of drug therapy when individuals are most likely to experience side effects) and prolonged exposure to prescribed medications (when individuals may become tolerant to side effects).

From a policy perspective there is a troubling relationship between MVCs, multiple medication use, interactions, medication/disease conflicts, and the aging driver. While older drivers are at increased risk of a crash when they take multiple PDI medications, this study cannot isolate the cause of these crashes and determine the relative contributions of the medication, medical condition and age. Furthermore, this analysis cannot predict whether an individual older driver with an underlying medical condition who takes multiple PDI medications can drive safely.

This study suggests the need for further research to elucidate the complex interplay of factors affecting the aging adult and driving ability. The results of this research supports the intentions of NHTSA to promote the development of educational programs to increase consumer and healthcare provider awareness about the potential driver impairing effects of increasingly complex medical and pharmaceutical therapies in older adult drivers.

I. PROJECT OVERVIEW AND OBJECTIVES

This is the Final Report of a study performed for a contract entitled "Examination of Databases for Multiple Medications/Polypharmacy". This study was conducted by Aida A. LeRoy and M. Lee Morse of Iatrogen, LLC under subcontract to Orchid Biosciences.

Impaired driving is a major cause of motor vehicle crashes and injuries. The National Highway Traffic Safety Administration (NHTSA) has long studied the impairing effects of alcohol and illegal drugs on driving performance. NHTSA has also conducted research on the impairing effects of certain legal drugs such as antihistamines, benzodiazepines, and narcotic analgesics. It is recognized that certain medications may impair driving performance. Many prescription and non-prescription medication labels carry warnings against operating heavy machinery or motor vehicles. Compounding this risk are the effects of multiple medication use. Medications may interact, impairing metabolism, potentiating medication effects, or worsening underlying medical conditions. Older adults are often treated with multiple medications for diseases associated with aging, such as diabetes, cardiovascular disease, and arthritis. Drug interaction effects in older individuals are magnified by age-related changes in liver and kidney function. NHTSA sought to study multiple medication usage in older adults in the context of motor vehicle crashes and public safety. For the purpose of this analysis, older adults were defined as individuals over age 50.

The objectives of this project were to:

- a. Determine the relative frequency of multiple medications and medical conditions within the older adult population (over age 50) in both those who have experienced a motor vehicle crash (MVC) and those who have not, by analyzing proprietary and non-proprietary databases; and
- b. Conduct a case control study of the associations between the use of medications/medical conditions, and motor vehicle crashes among older drivers.

A. Overview

The number of older Americans is expected to grow dramatically over the next several decades. By 2030, almost 20 percent of the United States population will be 65 years of age or older. In 2000, 35 million persons were age 65 or older. By 2030, with the aging of the baby boomer generation, it is predicted that over 70 million Americans will be 65 years of age or older (Federal Interagency Forum on Aging-Related Statistics, 2000). This aging segment of the United States population is very heterogeneous and varies significantly with respect to health status, economic level, ethnicity, and other demographic variables.

The vast majority of older adults continue to rely on the passenger vehicle for mobility -either as drivers or as passengers. There has been a dramatic growth in numbers of licensed
older drivers and this trend is expected to continue. Also, older drivers in 2001 drove more
miles and took longer trips as compared to older drivers in 1995 (Oak Ridge National
Laboratory, 2005). As the American population ages, it is expected that there will be an
increase in both the number of older drivers and the amount of driving within this age group.

Research results indicate that individuals age 65 and older have higher rates of fatality and injury in motor vehicle crashes **per mile** driven than any other age group except for teenagers (Oak Ridge National Laboratory, 2005). There are a number of reasons for these differences. First, older adults are more fragile and more vulnerable in crashes. Thus, they have higher risks for fatalities and serious injuries (Li et al., 2001). However, the rate of **per person** crash involvement decreases with age until the rate increases in individuals age 85 years and older. Even at this age, the rate per person is lower than for younger drivers (Oak Ridge National Laboratory, 2005). Older drivers are also involved in different types of crashes. Older drivers have different patterns of driving than other drivers, and many tend to self-regulate their driving, for example, by decreasing night-time driving (Kelly, R. et al., 1999). Thus, driving patterns among older adults may reduce the exposure rate of crash involvement in comparison to other drivers.

With the aging of the American population, concern arises regarding projected increases in rates of crash involvement. In order to address these concerns, it is useful to consider which factors relate to crash involvement among older adults. Many age-specific factors may impact driving ability, such as age-related decrements in cognitive and physical functioning, increased prevalence of medical conditions or age-related medical conditions, and increased use of multiple medications (Millar, 1999). It is important to note that age alone does not necessarily predict fatality rates or crash rates. In a University of Michigan study, "able older drivers" had lower rates of fatalities when rates were proportionally corrected for licensed drivers (DOT, 2003). By identifying the risk factors, such as driving conditions, health conditions, treatment, medications, functioning, and exposure, strategies can be developed to minimize the impact on motor vehicle crash-related injuries among older adults.

1. Driving

Driving is a complex behavior and can be considered a higher order instrumental activity of daily living (IADLS) (Morgan, 1995). Driving requires complex sequences of activities that occur in an intricate and rapidly variable environment. This environment includes the environment external to the vehicle as well as the environment within the vehicle, both of which may impact safety. For example, concurrent physical, social, and other demanding tasks may distract the driver and influence driving. Safety is dependent upon environmental conditions, the demands of the situation, and the abilities of the driver. Impairments in visual, cognitive, and/or motor function may impact the driver's ability to drive safely. Within each of these modalities of function, driving may require complex processing and action. For example, cognitive function includes the recall of basic information such as, "where I left my keys," but also decision making skills such as, "How can I react most quickly to a moving object in the roadway?" In this example, motor abilities (such as ease of movement of the foot), visual acuity, and attention processing also influence driving skill. Because of the complex nature of driving, impairment due to age, medical condition, or medication can seriously affect the ability of an older adult to drive safely.

2. Age, Medical Conditions, and Medications

<u>Age</u>

On average, aging brings changes and decrements to visual, cognitive, and motor functioning. For example, changes in the structure of the eye can affect visual perception (Owsley, 1994). However, on an individual basis, age – per se – is not a good predictor of driving abilities. For example, a healthy 75-year-old who wears corrective lenses may be able to drive safely, despite some age-related changes. Behavioral changes, health status, environment, and medical interventions may influence the effects of age-related changes. Generally, around age 50, individuals begin to seek treatment for conditions typically associated with aging, such as hypertension, Type II diabetes mellitus, hyperlipidemia, sleep disturbances, etc.

Medical, Cognitive, and Emotional Conditions

Research has been conducted to examine the association of medical, cognitive, and/or emotional conditions and disabilities with functioning and driving abilities. In general, diagnosis alone is not a good predictor of functioning. The type of condition, the severity of the condition, the management of the condition (medical and pharmaceutical), adaptations to the environment, changes in behavior of the individual, and the age of the individual are all factors that influence whether a particular medical, cognitive, or emotional condition will affect driving functioning. For example, while severe cataracts can affect vision, cataract surgery has been shown to improve vision and is correlated with decreases in crashes (Owsley, 2002). In general, the more severe the medical condition and the greater the presence of medical, cognitive, or emotional comorbidities, the more likely that functioning will be impaired. Naturally, this varies on an individual basis.

Medical, cognitive, or emotional conditions typically affect functioning if they are severe, improperly managed, unmanageable, or affected by other conditions. In this report, "potentially driver impairing" (PDI) conditions are defined as conditions that are associated with loss of body control (hypoglycemic coma, seizures, fainting, low blood pressure, blurred vision), central nervous system effects (inattentiveness, sleepiness, dizziness, confusion), or conditions that cause stiffness and pain (arthritis, pain conditions). Examples of such conditions are diabetes mellitus, arthritis, seizures, depression, insomnia, arrhythmias, cardiovascular disease, Alzheimer's, and Parkinsonism, among others. Treatment, however, may ameliorate these conditions and the consequent driver-impairing aspects of the condition.

Medications

While medication treatment offers disease amelioration, it also has the potential for undesirable drug side effects and interactions. In this regard, the older adult faces many challenges. The most evident are the age-related changes in health and physical status. Many among the rapidly growing population over age 65 receive medical therapy for several chronic conditions simultaneously, often involving treatment with up to eight different drugs per day in addition to use of over-the-counter drugs (Ellenhorn's Medical Toxicology, 2nd ed). As a result, older adults use a disproportionately high amount of medications: older adults represent 13 percent of the U.S. population but consume about 30 percent of all prescription drugs (Noble: Textbook of Primary Care Medicine).

A number of factors portend an increase in the number of potential drug interactions experienced by older adults including:

- an increase in the number of drugs taken daily,
- alterations in pharmacokinetics,
- long-term drug use,
- alteration in gut surface area,
- decrease in gastric motility,
- decreased gastric acid secretion,
- multiple drugs competing for binding sites on serum albumin,
- multiple drugs competing for metabolic enzymes,
- increase in the proportion of fat to body mass,
- decreased body water,
- reduced liver size with diminished ability to metabolize drugs,
- less efficient renal clearance of drugs, and
- an increase in g-receptor sensitivity, especially to cardiovascular and psychotropic drugs.

Symptoms of drug-induced poisonings, overdoses, drug interactions or side effects are often interpreted as normal signs of aging and thus fail to be linked to a pharmaceutical etiology¹. Some of these symptoms include:

- disorientation,
- tremors,
- lethargy,
- depression,
- forgetfulness,
- loss of appetite, and
- constipation.

Other effects are extensions of anticipated pharmacologic effects or side effects of normal doses of drugs that are particularly relevant to older adult drivers, such as:

- dizziness,
- drowsiness,
- tremors,
- rigidity,
- confusion,
- hypoglycemia,
- hypotension, and
- blurred vision.

¹ The set of factors that contribute to the occurrence of a disease.

Sedation and confusion are common drug complications in elderly patients, especially from medications with anticholinergic effects and sedative-hypnotics that affect the central nervous system. Willcox et al. (1994) found that "Physicians prescribe potentially inappropriate medications for nearly a quarter of all older people living in the community, placing them at risk of adverse drug effects such as cognitive impairment and sedation." Other disturbances that are common side effects of drugs in older adults include orthostasis (postural hypotension), falls, depression, urinary retention or incontinence, constipation, anorexia, and metabolic abnormalities, such as hypoglycemia, hypokalemia or hyperkalemia, hyponatremia or hypernatremia, and azotemia. McGwin et al. (2000) conducted a population-based case-control study of drivers age 65 and older and found that an increased risk of at-fault involvement in crashes was found for older drivers using common drugs such as non-steroidal anti-inflammatory drugs (NSAIDs), antihypertensive drugs (specifically ACE inhibitors), anticoagulants, or benzodiazepines.

Certain medications, based on their pharmacology, how they are taken, side-effects, etc., may potentially have a negative effect on driving. To qualify as a potentially driver-impairing medication for the purposes of our study, the medication had to be associated with central nervous system side effects, alter blood sugar levels, affect blood pressure, affect vision, or otherwise have the potential to interfere with driving skills.

Examples of "potentially driver impairing (PDI)" medications include:

Drug Class	Possible Effects
Anti-Diabetic Drugs	Hypoglycemia
Anticholinergics	Blurred vision
Narcotic analgesics	Sedation
Anti-hypertensive drugs	Hypotension
Sedative/Hypnotics	Sedation
Antidepressants	Sedation, dizziness
Allergy drugs	Sedation, dizziness
Anti-arrhythmics	Fainting (syncope)
Anticonvulsants	Ataxia, dizziness, sedation
Skeletal Muscle Relaxants	Dizziness, sedation

Recently, Curtis et al. (2004) reported the results of a study to identify inappropriate prescribing for elderly Americans in a large outpatient population. Inappropriate prescribing was defined using the Beers revised list of drugs to be avoided in elderly populations (Beers, 1997). Curtis conducted a retrospective cohort study using outpatient prescription claims. He found that 21 percent of the patients studied filled a prescription for one or more drugs of concern. More than 15 percent of subjects filled prescriptions for two drugs of concern, and 4 percent filled prescriptions for three or more of the drugs within the same year. There is increasing evidence that older adults are being prescribed medications that are known to be problematic based on their age.

Drug-related adverse events are an important cause of emergency department visits and hospitalizations in older adults, and adverse drug events (ADEs) may be responsible for 11-30 percent of hospital admissions (Chan, 2001 and Hanlon, 1997). Nearly 90 percent of all patients admitted were taking one or more over-the-counter or prescribed medications daily, while the average ADE-related hospitalized older adult patient was taking 4.2 drugs, and 13 percent of these admitted patients were taking eight or more medications daily.

ADEs are reportedly responsible for over 10 percent of emergency department visits (Hohl, 2001). In one study, no adverse events were seen in patients taking one or fewer medications. However, in patients taking two to five medications per day, the frequency of ADEs requiring emergency room intervention was 11.5 percent, and for those taking six or more medications daily, the incidence of emergency room visits for ADEs climbed to 16.9 percent. Examination of drug regimens showed that 31 percent of patients also had the potential for at least one adverse drug interaction.

The combination of driver-impairing medical conditions and the use of multiple medications (both impairing and non-impairing) suggests that the aging driver population may be at increased risk for motor vehicle crashes. Our analysis was designed to shed light on the issue of an aging driving population and the impact of diseases and the consequent use of medications. In addition to the inherent side-effects associated with medications, this study also looked at the contribution to motor vehicle crash risk associated with 'problematic medication use' among the older drivers. Problematic use is defined as use that is in therapeutic conflict with other disorders for which the patient is being treated, or other medications the patient is concomitantly receiving.

B. Project Objectives

The objectives of this project are to:

- 1. Determine the relative frequency of various combinations of medications used by both those who have experienced a motor vehicle crash (MVC) and those who have not by analyzing proprietary and non-proprietary databases; and
- 2. Conduct a case-control study of possible associations between the use of select medications (and combinations thereof) and MVCs among older drivers (age 50 and older).

II. METHODOLOGY

A. Purpose and Contract Tasks

While many studies have been reported in the literature addressing drug-crash problems and various subsets of drivers, they have been limited to selected drugs (typically drugs of abuse or antihistamines, antidepressants, benzodiazepines, or narcotic analgesics) or selected diseases (Alzheimer's, diabetes, epilepsy). Additionally, these studies have involved costly data collection methods, such as analysis of blood, saliva, sweat, hair, or urine. Some have relied on data taken from police crash reports, arrests, medical examiner reports, research based on data from trauma units and hospitals, and self-reported data from driver surveys. Further, these studies have not looked at the interactions between drugs and diseases.

We conducted an exploratory study to examine the use of a wider array of medication classes and medical conditions and their potential interactions in older adult drivers and association with motor vehicle crashes. We also examined the feasibility of using a national survey database and a longitudinal, patient-specific medical and pharmaceutical claims-linked database for this study. The use of anonymized patient-specific longitudinal databases, absent recall bias (such as insurance claims databases) has served to generate hypotheses in epidemiologic studies involving drugs, medical conditions and outcomes. In addition, data from well-designed national surveys (such as NAMCS) have been successfully used to characterize the use of medications in the general U.S. population.

B. Database Discussion

The selection of databases for this project was performed in consultation with NHTSA. We selected two types of databases: A publicly available database (NAMCS) derived from an annual survey sponsored by the Centers for Disease Control/National Center for Health Statistics (CDC/NCHS), and a proprietary patient-level insurance claims database licensed from PharMetrics.

The National Ambulatory Medical Care Survey (NAMCS) is an annual national survey designed to obtain objective, reliable information about the provision and use of ambulatory medical care services in the United States. Findings are based on a sample of visits to non-federally employed office-based physicians that are primarily engaged in direct patient care. Physicians in the specialties of anesthesiology, pathology, and radiology are excluded from the survey.

Specially trained interviewers visit physicians prior to their participation in the survey in order to provide them with survey materials and instruct them on how to complete the forms. Data collection from the physician, rather than from the patient, expands information on ambulatory care collected through other NCHS surveys. Each physician is randomly assigned to a 1-week reporting period. During this period, data for a systematic random sample of visits are recorded by the physician or office staff on an encounter form provided for that purpose. Data are obtained on patients' symptoms, physicians' diagnoses, and medications ordered or provided. The survey also provides statistics on the demographic characteristics of patients and services provided, including information on diagnostic procedures, patient management, and planned future treatment.

The basic sampling unit for the NAMCS is the physician-patient encounter or visit. The NAMCS is not based on a sample of the population. NAMCS is based on a sample of *visits* rather than a sample of people. The data can be used to find out how many ambulatory care visits were made involving a certain diagnosis, but cannot be used to find out how many people have a certain diagnosis.

The absence of patient-specific denominator data significantly reduces the usefulness of survey databases for performing risk/outcomes analysis.

Risk and outcomes analysis requires longitudinally linked medical and pharmaceutical data on a patient-specific basis. To perform the kinds of case-control matched pair logistic regression analyses required to examine the question of medication related motor vehicle crashes in very large populations, patient-specific longitudinal databases are required. There are a number of health care programs that have databases that allow for linkage of medical and pharmaceutical claims data; very few that are available from non-proprietary sources. Those that are non-proprietary (such as State Medicaid programs and other federally funded health care programs) are only available through interagency agreements that are time-consuming to obtain and require extensive data cleaning and manipulation. Thus, we identified proprietary databases that would allow the longitudinal patient-specific medical and pharmaceutical claims linkages for our study.

We solicited proposals from two private companies (PharMetrics and Ingenix) that provide anonymized patient-specific medical and pharmaceutical claims-linked databases. These datasets are derived from hospital, medical and pharmaceutical claims paid through health insurance programs. Services not paid for by the insurance program (such as over-the counter medicines or weight reduction medicines) were not included. Because the sources of the database (geographic location, demographic representation, etc.) are unknown, it can not be determined whether either database can be generalized to the U.S. population of drivers over age 50. Both databases identified a similar number of individuals with ICD9-CM "E"-codes for Motor Vehicle Crashes (PharMetrics had 103,000 patients and Ingenix 70,000 patients). Costs to obtain the databases were the same. The PharMetrics database appeared to have better quality control procedures and they had better customer service. Therefore, we selected PharMetrics as the vendor for the following reasons: 1) larger dataset size, 2) greater ease of identifying individuals enrolled in the insurance plan during our study period, 3) better quality control, 4) equal cost, and 5) more responsive customer service.

The use of administrative claims data for conducting research involving adverse drug reactions and post-marketing drug surveillance has been well described in the literature (Strom and Morse, 1988 and Morse, 1991). Medical record linkage systems merge insurance claims data arising from the dispensing and refilling of prescription medications (which serves as a proxy for consumption) and the provision of medical and hospital services (hospital claims are discharge diagnoses). Gross errors in diagnostic codes and patient demographic data (e.g., age and sex) did not appear to be widespread and generally agreed with patient chart data (Hennessy, 2003 and Quan, 2002), and thus these data systems appear to provide a useful source of healthcare events data (Federspiel, 1976 and Worth, 1996). Administrative claims data has been reported to be particularly useful in studies of inappropriate prescribing

for the elderly (Curtis et al., 2004) and have also been demonstrated to be useful in the study of medication use and vehicle crashes (Ray, 1992 and Jacobs, 2004).

Use of administrative health claims data provides advantages when performing certain types of epidemiologic research. For example, pharmaco-epidemiologic research (the association of drug usage with defined outcomes) using administrative health claims databases, has been documented in the literature (Strom, 1984 and Morse, 1991). An important advantage of using this type of database is the ability to link, cost-effectively, patient demographic, medication use, and medical services usage information longitudinally. These databases support the temporal association of one or many drugs to outcomes of medical services. Researchers are not dependent on recall accuracy by the patient or provider. In case control designs, medication use is examined in a defined time period prior to the defined outcome, compared to matched controls using the same age, sex, and time period studied.

The use of administrative claims data is not without challenges. Several studies suggest that structured data validation processes should be instituted when using claims data to identify data limitations and weaknesses (Hennessey, 2003 and Roos, 1996). Administrative data were found to have diagnoses and conditions that were highly specific (e.g., diabetes mellitus) but that vary greatly by condition in terms of sensitivity (e.g., severe, moderate, or mild). To yield the most informative diagnostic profile from claims data, some researchers have suggested that all physician billings for patients be examined (Wilchesky, 2004). Useful clinical information in claims databases generally resides in *data patterns* rather than in data elements and requires a quality control system that elevates the correctness of data relations above the validity of single facts. The use of massive data sets requires that quality control corresponds to the nature of the high-level information that is derived from large databases (Walker, 2001).

Claims databases are also constrained by missing data (not reported or collected). For example, with respect to consumption, it is only possible to know what medications were dispensed when patients fill prescriptions, but not whether patients actually ingest medicines. (Methodologically this would generally bias against an association between the drug and the outcome). Moreover, the use of medications not reimbursable by the drug program (e.g., OTC herbals, non-formulary medicines) will not be recorded in the database and thus the contribution of these medicines to the outcome being assessed cannot be evaluated. Similar constraints exist for diagnostic data as well. Medical services for non-covered conditions or events will not appear in the database. This may be particularly problematic for motor vehicle crashes where a third-party liability is established and medical claims are paid by the 'at fault' driver's insurance company (claims processed outside the database participating insurer). Motor vehicle crash data included in our study must have resulted from the payment of an emergency room or hospital service bill within the insurance system we are accessing in order to be observed as a medical event.

The following sources of error and study design influences must be considered when evaluating the results of an analysis using an administrative claims database:

• Reporting error

- This type of error can bias in either favor of (when diagnoses are reported that increase payment fees) or against (under-reporting) the hypothesis.
- Ascertainment error (correctly billed but incorrectly diagnosed):
 - o If this error is effectively symmetrical it should have limited effect on the hypothesis.
- Detection bias (prolonged periods of eligibility or frequent visits yield increased opportunity to detect):
 - O This bias can skew towards reinforcing the hypothesis; but age, sex, and time period matching (requiring case and controls to have identical observation periods) can minimize this bias.

Given the limitations of administrative medical claims databases, we consider the primary utility of this study to be the generation of hypotheses regarding associations between medication use and motor vehicle crashes.

We used both the NAMCS and the PharMetrics databases to determine the frequency of medication use and patterns of use and diagnosis among individuals over age 50. An age cutoff of 50 years was selected to maximize sample size and because age-related changes and corresponding increased medication use begin to occur at this age. Individuals start to receive treatment for high blood pressure, osteoarthritis, hypercholesterolemia, and adult-onset diabetes. Multiple medications (prescription and non-prescription) begin to be used to treat or prevent emergence of age-related conditions.

1. Non-Proprietary Database

a. Database Description

NAMCS provides detailed prescription drug and disease mentions collected and reported by a panel of physicians. It is a national probability sample survey of visits to office-based physicians. The survey is designed to meet the need for objective, reliable information on the provision and use of ambulatory medical care services in the United States. We chose NAMCS from 1998-2000 to obtain information on drug use characteristics and disease prevalence for the U.S. population. These years were complete and readily available at the start of the project. The NAMCS data is provided either unweighted or weighted (data projected to the entire U.S. population).

b. Quality Control

The National Center for Health Statistics, Centers for Disease Control and Prevention (CDC) conducts a thorough system of data completeness checks, data edits, and quality control for NAMCS data collection and process. Field staff conducts checks of the survey information for completeness. Clerical edits are performed upon receipt of the data. Patient records are manually reviewed and ambiguous entries are reclassified. In addition, computer edits for code ranges and inconsistencies are performed. Further, all medical and drug coding is subjected to a two-way 10-percent

independent verification procedure. Non-response rates for age and sex are five percent or less. Missing data items are inputted by randomly assigning a value from a patient record form with similar characteristics (National Center for Health Statistics, 1998, 1999, 2000).

After obtaining the NAMCS data, we also performed a series of quality control procedures:

- Reviewed at random 200 records from the raw data file for completeness, and reasonableness before loading data into our SAS file system;
- Verified the number of records for each year's data in our files against NAMCS documentation;
- Reviewed frequency report by 10-year age group and for both weighted and non-weighted datasets for out-of-range values (outliers);
- Verified all drug class codes and ICD-9 CM codes matched their respective reference files;
- Verified the Number of Medications field against drug class fields 1 to 6 to ensure consistency;
- Excluded 10,765 visits from the original 71,468 physician/patient visits representing individuals too young to drive (under age 16);
- Excluded 2,491 patients from the 60,703 physician/patient visits from the previous step because they had diagnoses inconsistent with their sex.
- We identified the motor vehicle crash E-code Group, which resulted in a final number of 548 physician/patient visits (unweighted) and 16,500,227 (weighted) physician/patient visits.

c. Eligibility

All office-based physician visits in the NAMCS sample between 1998 and 2000 were included in the analysis. In total, there were 23,339 sample visits for 1998; 20,760 sample visits for 1999; and 27,369 sample visits for 2000 (total of 71,468 physician/patient visits). We limited Motor Vehicle Crash E-codes to those that involve *motor vehicles* and including ICD9-CM codes (Figure 1):

Figure 1: ICD9-CM "E" Codes for Motor Vehicle Crashes

Included ICD9-CM Codes	Excluded ICD9-CM Codes
E810-E816 (Motor Vehicle Traffic	Passenger .1 and .3
Accidents)	Occupant of Streetcar .4
E819-E823 (Motor Vehicle Non-	Rider of Animal .5
Traffic Accidents) only with the	Pedal Cyclist .6
subdivisions:	Pedestrian .7, and
Driver .0,	Other Occupant .8.
Motorcyclist .2, and	
Unspecified .9.	

d. Preparation of NAMCS Analysis File

We used the National Drug Code Directory Classes used by NAMCS to identify all medications reported in the survey. A table of medication classes containing potentially driver impairing medications (Appendix I) was defined. To qualify as a driver-impairing medication the medication had to be associated with central nervous system side effects, alterations in blood sugar levels, changes in blood pressure, impaired vision, or otherwise have the potential to interfere with driving skills. We also defined potentially driver impairing diseases (Appendix II). These conditions are associated with loss of body control (hypoglycemic coma, seizures, fainting, low blood pressure, blurred vision), central nervous system effects (inattentiveness, sleepiness, dizziness, confusion), or conditions that cause stiffness or pain (arthritis, pain conditions). We also prepared tables of drug interaction conflicts (Appendix III), and drug-disease conflicts (Appendix IV). Drug interaction conflicts were determined from drug interaction compendia and drug literature. Drug-disease conflicts are based on side effects of drugs that contribute to or are contraindicated by underlying medical These conflicts are obtained from drug compendia, manufacturer conditions. literature, and primary medical journal references.

The 1998, 1999, and 2000 data were loaded into the SAS file system separately and merged into a single file for analysis. In total, there were 71,468 sample visits (23,339 sample visits for 1998; 20,760 for 1999; and 27,369 for 2000).

We subdivided this database into individuals 16-49 years of age and individuals over age 50. We also divided the population into those with a mention of motor vehicle crashes and those without.

NAMCS presents the results in their database as unweighted, reflecting just the data collected, and weighted, which extrapolates to the U.S. population as a whole. The unit of analysis in the NAMCS survey is the physician visit, not the patient. The total number of physician visits is 58,212 (unweighted) and 1,880,862,898 (weighted). The number of physician visits among the Motor Vehicle Crash E-code patients is 548 (unweighted) and 16,500,227 (weighted). The breakdown of physician visits (weighted) among the Over Age 50 Motor Vehicle Crash E-code patients was 4,457,588 and among the Age 16-49 patients was 12,042,639 visits.

e. Database Queries: Descriptive Analysis

We designed a number of queries to conduct a thorough descriptive analysis of the NAMCS database. Queries were performed to identify the frequencies of age, sex, medications dispensed, concomitant drugs used, and co-morbidities, both for the entire cohort, for patients with Motor Vehicle Crash mentions, both weighted, and unweighted. We analyzed numbers and types of medications in general, driver impairing medications, driver impairing diseases, drug-drug conflicts, and drug-disease conflicts. The Motor Vehicle Crash-Involved category was narrowly defined to include the E-codes for *motor vehicle* crashes only where the patient was the *driver*, *motorcyclist*, *or unspecified*. We excluded *passenger*, *occupant of streetcar*, *rider of*

animal, pedal cyclist, pedestrian, and other occupant. (See Figure 1). We performed the following queries with results by number of physician visits by age and sex:

Query 1: Number of Physician Visits

Query 2: Number of Medications

Query 3: Number of Specific Combinations of Drug Classes

Query 4: Number of Potential Driver Impairing Medications

Query 5: Number of Conflict Medications

Query 6: Number of Specific Potential Driver Impairing Disease Groups

Query 7: Number of Potential Driver Impairing Disease Groups

Query 8: Number of Disease-Drug Conflicts

2. Proprietary Database

a. Database Description

The PharMetrics Patient-Level Database includes patients enrolled during the time period from January 1998 to March 2002. Individuals with E-codes for motor vehicle crashes and three controls for each case provide information about patient demographics, number of medications dispensed, patterns of medication combinations, and disease prevalence for patients with and without motor vehicle crashes in the enrollment population. Occurrences of drug-drug conflicts and drug-disease conflicts were also examined. The first phase of the analysis of the proprietary data utilized the same descriptive queries that were used for the non-proprietary dataset. The second phase of the analysis of the proprietary dataset was a matched-pair case control study.

b. Quality Control

PharMetrics followed an extensive data quality review procedure that used over 100 quality measures. Key demographic, service date, diagnosis and medication variables were included in the review process. Key variables from each data submission were compared to expected ranges based on PharMetrics' production database norms. Data that deviated from norms were either excluded from the production database or sent back for correction and re-submission. Each variable on every record was evaluated.

We also performed the following QC measures:

- Checked and reconciled the number of records loaded against PharMetrics' documentation.
- Performed basic field audits for anticipated types, value ranges, and formats.
- Generated a frequency for every character variable (e.g., sex) and checked out-ofrange values.
- Calculated a mean, minimum, and maximum for all numeric variables (e.g., age, days drug supplied, quantity dispensed, etc.) and checked outliers.
- Validated data against specified inclusion/exclusion criteria.
- Developed diagnostic and drug ranking reports and examined them for reasonableness given the demographic nature of underlying population (e.g., geriatric diseases and commonly used medications)

The database we obtained from PharMetrics is a patient-level insurance claim database. The PharMetrics patient-level database is an integrated set of fully adjudicated medical and pharmaceutical claims for all covered medical and pharmaceutical services. It includes both inpatient and outpatient diagnoses and procedures, and both standard and mail order prescription records. This database is a longitudinal, anonymized, patient-specific medical and pharmaceutical claims-linked database. We selected an insurance claims database because it provided the ability to analyze medication usage and disease treatments and their temporal relationship to the motor vehicle crash. In total, there were 81,408 cases and 244,224 controls.

c. Eligibility

Data contained in the proprietary database included patients enrolled during the time period from January 1998 to March 2002. Cases were defined as all patients with one or more claims with an ICD9-CM code indicative of a motor vehicle crash (See Figure 1) and with at least six months of continuous enrollment prior to their first claim(s) with a crash code. Three control patients were randomly matched to each case patient. For each control, a match number was provided that linked the control to the case. Matching was based on the following matching criteria:

- No claims with any of the motor vehicle crash codes listed in Appendix V.
- Age (as of January 1998), within 5 years of the age of the case
- Sex (case matched to control)
- At least 6 months of continuous enrollment prior to the Case study subject's first claim with a crash code
- There were a total of 81,408 cases and 244,224 controls.

d. Refinement Steps

We performed extensive quality control, data cleaning and refining steps with results as follows:

- Excluded 25 case patients from the original 81,408 case patients due to either missing sex or more than two possible sexes, leaving 81,383 patients.
- Removed 9,891 case patients from the 81,383 case patients from the previous step due to missing year of birth, leaving 71,492 patients.
- Excluded 20,461 case patients under age 16 from the 71,492 case patients from the previous step, resulting in 51,031 patients.
- Removed 146 case patients from the 51,031 case patients from the previous step because their motor vehicle crash code(s) were apparently used to justify physical therapies they received leaving 50,885 case patients with all E-Codes. Note: If a patient had a procedure code of '97001', '97002', '97039', '98940', '98941', '98942', '98943', 'Q0086', and 'S9131' (codes for physical therapy or chiropractic services) on the same date as the event, AND there was no ER visit on the event date, a day immediately before or after the event date, the MVA E-code was apparently used to justify the physical therapies or chiropractic services.
- Fifty-three (53) case patients were excluded because of wrong sex diagnoses, which left 50,832 case patients.
- Inclusion of only patients with Motor Vehicle Crash E-codes listed above resulted in a total of 33,519 cases. Among them we have 5,378 cases of age 50 or above. The ratio of cases to controls is 1 to 3. Therefore, we have 16,134 controls of age 50 or above.

e. Database Queries: Descriptive Analysis

The following queries, which describe the frequencies of age, sex, medications dispensed, concomitant drugs used, and co-morbidities, were conducted according to the design used for the non-proprietary dataset. For each query, one set of tables was generated by number of patients by age and sex.

Query 1: Number of Patients.

Query 2: Number of Medications

Query 3: Number of Specific Drug Combinations
Query 4: Number of Driver Impairing Medications
Number of Drug Interaction Conflicts

Query 5: Number of Drug Interaction Conflicts

Query 6: Number of Specific Potential Driver Impairing Disease Groups

Query 7: Number of Potential Driver Impairing Disease Groups

Query 8: Number of Disease-Drug Conflicts

f. Methodology for Case-control Analysis

A McNemar-matched pair case-control design was employed to obtain odds ratio measures of potential MVC risk and to conduct a conditional logistic regression analysis using the proprietary database. The McNemar is a statistical test designed to describe the strength of an association between an outcome and an intervention among sets of a matched pair of subjects. Pairing with the intervention subject can occur with one (e.g. 1:1) or multiple controls (e.g. 1:2. 1:3, 1:4, etc.). In general, the greater the number of control pairings, the narrower the confidence interval around the 'best guess estimate' of the association measured. Data contained in the proprietary database included patients enrolled during the time period January 1998 to March 2002. Individuals with E-codes for motor vehicle crashes with the restricted definition and three controls for each case were selected. Each case was matched with three controls by age and sex. Three controls represented the maximum number of controls available from the database, and thus provided the maximum sensitivity available for this population sample. In order to control seasonal factors, controls had the same event date as their corresponding cases.

More specifically, cases were defined as all patients with one or more claims with an ICD9-CM code indicative of a motor vehicle crash (see Figure 1) and with at least six months of continuous enrollment prior to their first claim(s) with a crash code. Three control patients were randomly matched to each case patient. For each control, a match number was provided that linked the control to the case. Matching was based on the following matching criteria:

- No claims with any of the motor vehicle crash codes listed in Appendix V.
- Age (as of January 1998), within five years of the age of the case.
- Sex (case matched to control).
- At least six months of continuous enrollment prior to the Case study subject's first claim with an crash code.

Medical history claims during the 60-day window prior to the MVC event date were analyzed using the odds ratio and conditional logistic regression analysis methodologies. We analyzed the numbers and types of medications in general, driver impairing medications, driver impairing diseases, drug-drug conflicts, and drug-disease conflicts

Odds ratios for driver impairing drugs, driver impairing disease groups, drug-drug conflicts, and drug-disease conflicts were calculated without controlling other factors. We computed their corresponding 95 percent confidence intervals and p-values against the null hypothesis that the odds ratio was equal to one.

In addition to the McNemar analysis, we built a model to predict motor vehicle crash (MVC) risk, SAS PROC PHREG with a forward selection option was used to conduct an unconditional logistic regression. We defined the dependant variable as 1 for cases and 0 for controls. Independent variables included number of medications used, number of driver impairing medications used, number of driver impairing disease groups, number of drug-drug conflicts, number of drug-disease conflicts, and baseline

driver impairing medical conditions. Number of medications used and number of driver impairing medications used were determined to have multi-colinearity and only number of driver impairing medications was left in the logistic regression model. Number of driver-impairing medications used, number of driver-impairing disease groups, and number of drug-drug conflicts have three computational values while number of medications used and number of drug-disease conflicts have two categories.

Table 1: Regression Analysis Variables

Variables	Values
Number of Medications	No Medications
	1 or more
Number of Driver Impairing Medications	No Impairing Drugs
	1-2
	3 or more
Number of Driver Impairing Diseases	No Impairing Diseases
	1-2
	3 or more
Number of Drug-Drug Conflicts	No Drug-Drug Conflicts
	1-2
	3 or more
Number of Drug-Disease Conflicts	No Drug-Disease Conflicts
	1 or more

Reference groups for number of medications, number of driver impairing medications, number of driver impairing diseases, number of drug-drug conflicts, and number of drug-disease conflicts were 'No Medications', 'No Impairing Drugs', 'No Impairing Diseases', 'No Drug-Drug Conflicts', and 'No Drug-Disease Conflicts' respectively. Odds ratios and 95 percent confidence intervals were computed for those variables with and without control of other variables.

3. Eligibility and Case-Control Matching Procedures

- Case group: All patients with one or more claims with an ICD9-9-CM code indicative of a motor vehicle crash (see Figure 1) AND at least six months of continuous enrollment prior to the first claim with a crash code.
- Control group: Three patients were randomly matched to each case patient. For each control, a match number was provided that linked the control to the case. Matching was based on the following matching criteria:
 - o No claims with any of the motor vehicle crash codes listed in Appendix V.
 - o Age (as of January 1998), within 5 years of the age of the case.
 - o Sex same as the case patient.
 - O At least 6 months of continuous enrollment prior to the first claim date with a crash code of the corresponding case patient.

In addition, only patients with drug benefits were included for study, as evidenced by the presence of at least one paid pharmacy claim during the period of observation.

Patients aged 65 years and older were included only if they were part of a Medicare Risk plan, as full medical and pharmacy utilization data was required for this analysis.

4. Preparation of Analysis File

A case file, a control file, and a crosswalk file, which links each control patient to each case patient, were prepared for analysis. The case file and control files contained the Patient ID and information about enrollment, demographics, medical claims, and pharmacy claims. The crosswalk file contained the case Patient ID, control Patient ID and match number. We also prepared files for medication classes, potential driver impairing medications (Appendix I), potential driver impairing diseases (Appendix II), drug interactions conflicts (Appendix III), and drug-disease conflicts (Appendix IV).

III. RESULTS

A. Non-proprietary Database: Descriptive Analysis

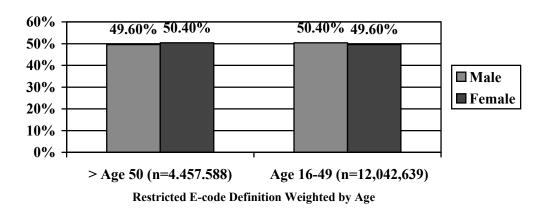
1. General Findings: Descriptive Analysis

a. Demographics

The NAMCS dataset contained both unweighted and weighted numbers and percentages. The weighted numbers are projected to the whole U.S. population while the unweighted is the actual numbers obtained from the survey. This report will summarize the weighted findings for physician visits for patients with the Restricted Definition of E-codes for Motor Vehicles.

Over Age 50 individuals represented 27 percent of physician visits. Females represented 50.4 percent of the over 50 age group, but only 49.6 percent of the 16-49 age group (see Figure 2 and Appendix VI, Table 1b).

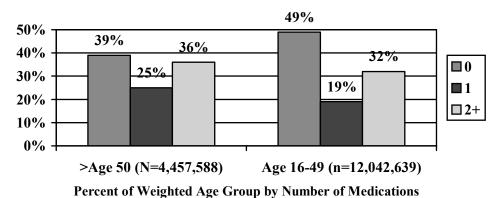
Figure 2: Non-Proprietary Database Demographics



b. Number of Medications

For the over 50 age group, within the NAMCS database, 61 percent of visits had medication mentions. Of those, 25 percent had mentions of only one drug and 36 percent had mentions of between 2 and 6 drugs (see Figure 3). In contrast, in the Ages 16-49 group, 51 percent of visits had medication mentions (19 percent had mentions of only one drug, while 32 percent of the visits had mentions of between 2-6 drugs). The survey did not list mentions of more than six drugs. (See Appendix VI, Table 2b). As expected, a greater percentage of visits for the over 50 age group had mentions of drug use than did visits for the Ages 16-49 group (61% versus 51% respectively).

Figure 3: Non-Proprietary Database Number of Medications by Age Strata



c. Frequently Used Medication Classes

The most frequently mentioned medication classes in the over 50 age group visits (see Appendix VI, Table 2b), in descending order by frequency of use, are listed below (See Table 2). An * identifies the Potentially Driver-Impairing Drug Classes. Both groups received frequent mentions of potentially impairing drug classes. The older

adult group adds cardiovascular medication mentions to their top ten list, while the younger group has more anti-asthmatic and anticonvulsant medication group mentions. Both had mentions of use of pain relievers, muscle relaxants and antidepressants. Skeletal Muscle Relaxants, Antidepressants, and Anti-anxiety Agents are considered to be inappropriate for use in individuals over 65 (Beers, 1997).

Table 2: Most Frequently Used Medication Classes

Most Frequently Used Medicat	tion Classes	
Medication Classes	Weighted >	Weighted Age
	Age 50 Group	16-49 Group
	(n=4,457,588)	(n=12,042,639)
*ANTIARTHRITICS	19%	16%
*SKELETAL, MUSCLE RELAXANTS	15%	15%
*ANALGESICS, NARCOTIC	14%	12.4%
*NSAID	10%	11%
ANALGESICS, NON-NARCOTIC	8%	10%
*ANTIDEPRESSANTS	7.5%	7%
*DISORDERS, ACID/PEPTIC	7%	4%
*ANTI-ANXIETY AGENTS	6%	2.4%
*BETA BLOCKERS	5%	
*ACE INHIBITORS	4.7%	
*ANTICONVULSANTS		2%
ANTIASTHMATICS/BRONCHODILATORS		1.7%

The most frequently mentioned medication classes in the Under Age 50 Group visits (See Appendix VI, Table 2b), in descending order by frequency of use, is listed above. (See Table 2). An * identifies the PDI medication classes.

d. Most Frequent Drug Combinations

The most frequently appearing mentions of drug combinations in the Over Age 50 Group visits are provided in descending order of frequency in Table 3. (See also Appendix VI, Table 3b). The Over 50 age group received mentions of use of multiple medication classes, many which interact to potentiate driver impairing effects. For example, narcotic analgesics used with muscle relaxants, antidepressants, or antianxiety agents will result in potential sedated and confused reactions.

Table 3: Most Frequently Appearing Drug Combinations in the Over Age 50 Group

Most Frequently Appearing Drug Combinations by Percent in the > Age 50 Group			
(n=4,457,588)	T		
Drug Combinations			
Narcotics, Antianxiety Agents, Antiarthritics, Skeletal Muscle	2.7%		
Relaxants			
 Nacotics, Antiarthritics, GI Disorder, Anti-Hyperlipidemic Agents, 	2.3%		
Skeletal Muscle Relaxants			
 Ace Inhibitor Hypotensive, Narcotics, Antidepressants 	2.0%		
 Alpha Agonists, Antidiarrheal agents, GI Disorder, Diuretics, 	1.8%		
Homeopathic drugs, Potassium Supplements			
 Narcotics, Antianxiety Agents, Antidepressants, Antihypertensives, 	1.4%		
Calcium Metabolism, Thyroid Hormones			
 Ace Inhibitor Hypotensive, Steroids, Non-narcotic Analgesics, 	1.4%		
Antiarrhythmics, Topical			
Ace Inhibitor Hypotensive, Antiarthritics, Beta Blockers	1.3%		

e. Use of Potentially Driver Impairing (PDI) Medications

The survey data was further analyzed to identify the rate of mentions of use of medications that we defined as being potentially driver impairing. (Appendix VI, Table 4b).

More than 58 percent of the Over Age 50 Group visits mentioned one or more PDI medications. Twenty-seven percent had mentions of one PDI medication and close to one-third (31%) had mentions of two or more PDI drugs. Over 48 percent of the Under Age 50 Group visits received one or more PDI medication mentions. Twenty percent had mentions of one PDI medication, and 28 percent had mentions of two to six PDI medications. (See Figure 4).

60% **52%** 50% 42% 42% 40% 28% 27% 30% **1** 20% $\square 2+$ 20% 10% 0% >Age 50 (n=4,457,588) Age 16-49 (n=12,042,639)

Figure 4: Use of Driver-Impairing Medications

Percent of Weighted Group by Number of Medications

f. Appearance of Potentially Driver Impairing (PDI) Medical Conditions

We performed additional analysis to identify the percentage of individuals in the motor vehicle crash (MVC) group visits (weighted) with mention of potentially driver impairing medical conditions. (Appendix VI, Table 6b).

Although both older and younger individuals with the definition of motor vehicle crashes received mentions of potential driver impairing diseases, the older adults had greater percentages of physician mentions of Driver Impairing Medical Conditions. (See Table 4).

Table 4: Appearance of Driver Impairing Medical Conditions

Medical Condition	Weighted > Age 50	Weighted Age 16-
	Group	49 Group
	(n=4,457,588)	(n=12,042,639)
Hypertension	7.7%	
CNS Excitation	6.8%	6.8%
Peripheral Neuropathy	2.6%	
Ankylosing Spondylitis	2.1%	
Psychoses	2.1%	1.4%
Diabetes Mellitus I and II	1.8%	
Depression	1.6%	0.97%
Head Trauma	-	1.2%
Alcoholism	1.4%	
Congestive Heart Failure	1.4%	
Thyroid Disease		0.5%
Anxiety Disorder		0.45%
Bipolar Disorder		0.3%

g. Drug Interactions and Drug Disease Conflicts

We performed further analyses to determine whether the use of multiple medications, which increase the risk of drug interactions and drug/disease conflicts, were mentioned more frequently in the crash involved individuals' visits (Appendix VI, Tables 5b and 8b). We looked for drug interaction mentions that result in increased driver impairing effects (e.g., a drug interferes with the metabolism of the other drug and results in increased blood levels and side effects) and disease/drug interactions that can result in aggravation of a driver impairing disease (e.g., a drug can cause hypoglycemic effects in a diabetic) or a disease that can influence the side effects of a PDI drug (e.g., hepatic dysfunction can impair metabolism of a drug and thus increase side effects).

In terms of the number of drug-drug conflicts, visits with older patients seem to be more likely to have more drug mentions with drug-drug conflicts (14%). Only five percent of the drug mentions in the Age 16-49 group visits were drug/drug conflicts. We were not able to detect drug/disease conflicts in this dataset.

B. Proprietary Database: Descriptive Analysis

1. General Findings: Descriptive Analysis

a. Demographics

The total number of cases is 33,605. The number of **Over Age 50 Cases** in the motor vehicle crash E-code group is 5,398 or 16 percent of the total. The number and percent of Over Age 50 females in the case group is 2,842 or 52.6 percent and the Over Age 50 males group has 2,556 patients or 47.4 percent (See Figure 5). The remainder of the case group (28,205 patients) is between age 16 and 49. Females represent 54.9 percent and males 45.1 percent. There are three age- and sex-matched controls for each case. (Appendix VII, Tables 1a and 1b).

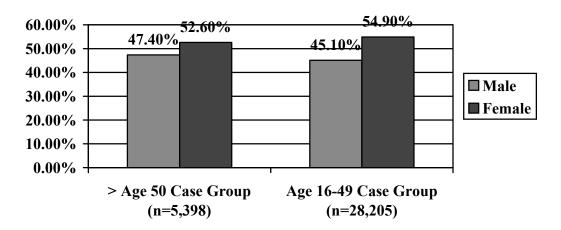


Figure 5: Proprietary Database Demographics

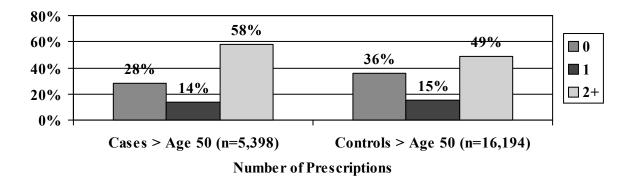
b. Number of Medications

In the Over Age 50 Case Group, the number of prescriptions per crash victim ranged between zero and 36 prescriptions in the 60-day period immediately precedent to their motor vehicle crash (the Event Window). Twenty-eight percent of the Over Age 50 Case Group received no prescriptions, and 14 percent received one prescription. Fifty-eight percent of the Over Age 50 Case Group received two or more prescriptions (See Figure 6). Sex differences were apparent since 65 percent of Over Age 50 Case Group females used two or more prescriptions in the 60-day analysis period in contrast to 51 percent of males. (Appendix VII, Table 2a and 2b).

In the **Over Age 50 Control Group** the number of prescriptions per person ranged between zero and 30 prescriptions in a 60-day period. Thirty-six percent of the **Over Age 50 Controls** received no prescriptions, 15 percent received one prescription and 49 percent received two or more prescriptions. Fifty-four percent of females received two or more prescriptions compared to 43 percent of males. (See Figure 6).

Over Age 50 Case Group patients tended to have a higher rate of drug utilization as evidenced by the fact that 36 percent of Control patients Over Age 50 used no prescriptions compared to 28 percent of Case patients Over Age 50. (See Figure 6.) The rate of Case patients over the age of 50 receiving two or more prescriptions was 1.2 times higher than the rate for the corresponding control patients.

Figure 6: Case and Control Medication Use Frequency Over Age 50



c. Frequently Used Medication Classes

The most frequently used medication classes in the **Over 50 Case Group** and the Over 50 Control Group are listed below, in descending order by frequency of use. (See Table 5). An * identifies drug classes characterized as Potentially Driver-Impairing (PDI) Medication classes.

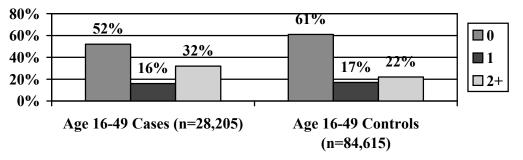
Table 5: Frequency of Use by Medication Class for Cases and Controls Over Age 50

Medication Classes	> Age 50 Case Group	> Age 50 Control
	(n=5,398)	Group (n=16,194)
ESTROGENIC AGENS	15%	13.3%
*NARCOTIC ANALGESICS	13.4%	
LIPID LOWERING DRUGS	13.1%	13%
NSAIDS AND COX INHIBITORS	12.4%	
*HYPOTENSIVES, ACE INHIBITORS	11.7%	9.8%
*GASTRIC AND SECRETION REDUCERS	11%	7.5%
*CALCIUM CHANNEL BLOCKERS	9%	7.4%
*SSRI ANTIDEPRESSANTS	8.3%	5.5%
*BETA-ADRENERGIC BLOCKING AGENTS	7.8%	
*ANTIHISTIMINES	7.7%	5.3%
PENICILLINS		4%
*ANTIANXIETY AGENTS	7.1%	3.7%
THYROID HORMONES	6.7%	
HYPOGLYCEMICS, INSULIN-RELEASE	5.3%	
SKELETAL MUSCLE RELAXANTS	4.7%	
*GLUCOCORTICOIDS	4.3%	3.2%
MACROLIDES		2.8%

Approximately one-third of the case patients **Over Age 50** used a drug from one of the drug classes considered inappropriate for use in older individuals (Beers, 1997). Estrogenic drugs represent the most frequently used drug class in both the cases and controls. This class of drugs is used for treatment of menopausal symptoms and should not impair driving. Lipid lowering drugs, hypotensive drugs, and other treatment of cardiovascular conditions were commonly used in both groups. Certain PDI medications appeared to be used more frequently in the Case group than the Control group. For example, narcotic analgesics were used by 13.4 percent of the **Over Age 50 Case Group** compared to only 6 percent of the **Over Age 50 Control Group**. Similarly, the skeletal muscle relaxants were used by 4.7 percent of the **Over Age 50 Control Group**. Anti-anxiety agents were used by 7.1 percent of the **Over Age 50 Case Group** in contrast to 3.7 percent of the **Over Age 50 Control Group**.

Though not required within the scope of this study, a brief analysis of the characteristics of medication use within individuals ages 16-49 was carried out. The number of prescriptions received during the Event Window for the **Age 16-49 Case Group** ranged between zero and 37 prescriptions per person. Fifty-two percent of the **Age 16-49 Case Group** received no prescriptions, 16 percent received one prescription and 32 percent received two or more prescriptions. (See Figure 7). Thirty-nine percent of females used two or more prescriptions, while 24 percent of males received one or more prescriptions.

Figure 7: Case and Control Medication Use Frequency Ages 16-49



Number of Medications

The number of prescriptions in the **Age 16-49 Control Group** ranged from zero to 34 prescriptions. Within this group 61 percent received no prescriptions, 17 percent received one prescription, and 22 percent received two or more prescriptions. Twenty-six percent of female patients received one or more prescriptions in contrast to 18 percent of males.

The most frequently used medication classes in the **Age 16-49 Case Group** and the **Age 16-49 Control Group** are listed below, in descending order by frequency of use. (See Table 6). An * identifies the Potentially Driver-Impairing (PDI) drug classes.

Table 6: Frequency of Use by Medication Class for Cases and Controls Ages 16-49

Medication Class	Ages 16-49		Ages 16-49
	Case Group		Control Group
*ANAGELSICS, NARCOTIS	10.2%	CONTRACEPTIVES	7%
*NSAIDS, COX2 INHIBITORS	7.3%	*ANTIHISTIMINES	4.3%
CONTRACEPTIVES, ORAL	5.7%	PENICILLINS	4.1%
*SSRIs	6.2%	*ANALGESICS, NARCOTICS	4.0%
*ANTIHISTIMINES	5.6%	*SSRIs	3.9%
PENICILLINS	5.4%	*NSAIDS, COX 2 INHIB	3.2%
MACROLIDES	4.2%	MACROLIDES	2.9%
*SKELETAL MUSC RELAX	4.1%	*GI ACID SECR REDUCERS	2.1%
*GI ACID SECRETION REDUCERS	3.5%	*BETA-ADRENERGIC	1.9%
*BETA BLOCKING AGENTS	2.9%	TETRACYCLINES	1.9%
EXPECTORANTS	2.7%	NASAL STEROIDS	1.7%
*GLUCOCORTICOIDS	4.3%	*GLUCOCORTICOIDS	1.7%
*ANTICONVULSANTS_	2.6%	EXPECTORANTS	1.5%
CEPHALOSORINS – 1 ST gen	2.0%	*ANTI-ANXIETY AGENTS	1.5%
THYROID HORMONES	1.9%	*THYROID HORMONES	1.2%

Oral Contraceptives were frequently used drugs in both the Ages 16-49 cases and controls. Other drug classes frequently used in both groups included antihistamines, antibiotics, beta-adrenergic anti-asthma agents, glucocorticoids, and expectorants. PDI medications appeared to be used more frequently in the Case group than the Control group. For example, the narcotic analgesic class was used by 10 percent of the Ages 16-49 Case Group compared to 4 percent of the Ages 16-49 Control Group. Similarly, the skeletal muscle relaxant class was used by 4.1 percent of the Ages 16-49 Case Group compared to less than 1 percent of the Ages 16-49 Control Group. SSRI antidepressants were used by 6.2 percent of the Case Group while only 3.9 percent of the Control Group used this class.

Individuals Ages 16-49 involved in a crash were more likely to be taking medications than non-crash-involved individuals (48% versus 39%). Ages 16-49 Case patients had more than two prescriptions by a factor of 1.5 times more than the control patients (See Figures 8 and 9) did.

Comparing Ages 16-49 Cases and Ages 16-49 Controls to the Over Age 50 Cases and Controls reinforces the observation that older individuals in general use more prescriptions than younger individuals do. (See Figures 8 and 9). Almost twice as many younger individuals versus older individuals received no prescriptions (cases 52% versus 28% and controls 61% versus 36%), while a greater percentage of older individuals received multiple prescriptions than younger cases and controls respectively (58% versus 32% and 49% versus 22%). The use of multiple prescriptions greatly increases the potential for driver impairment from medication drug interactions.

Figure 8: Comparison of Cases Between Age Groups by Number of Medications

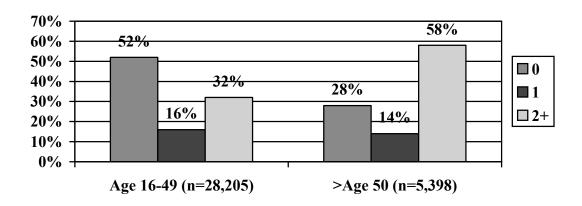
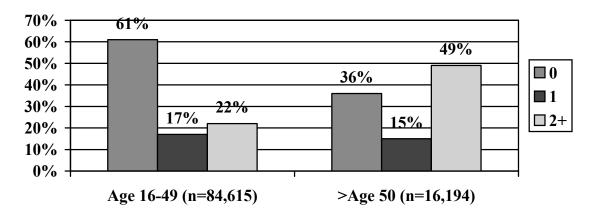


Figure 9: Comparison of Controls Between Age Groups by Number of Medications



d. Most Frequently Appearing Drug Combinations

The most frequently appearing drug combinations in the Over Age 50 Case Group were in descending order of frequency (for full list see Appendix VII, Tables 3a and 3b):

Table 7: Most Frequently Appearing Drug Combinations in Cases Over Age 50

Most Frequently Appearing Drug Combinations in Cases Over Age 50

Narcotics and NSAIDs

Skeletal Muscle Relaxants and NSAIDs

Narcotics and Skeletal Muscle Relaxants

Narcotics and Skeletal Muscle Relaxants and NSAIDs

Narcotics and Antibiotics

Gastric Acid Secretion Reducers and Narcotics

Anti-Anxiety Drugs and Narcotics

Serotonin Reuptake Inhibitor (SSRI) Antidepressants and Narcotics

Narcotics and NSAIDs and Antibiotics

Narcotics and skeletal muscle relaxants and narcotics and anti-anxiety drugs are combinations that result in a potentiating effect causing extreme disorientation. Certain antibiotics and gastric acid secretion reducers inhibit the metabolism of narcotics and other drugs. SSRIs inhibit the metabolism of narcotics and by themselves cause anxiety and disorientation.

The most frequently appearing drug combinations in the Over Age 50 Control Group were in descending order of frequency:

Table 8: Most Frequently Appearing Drug Combinations in Controls Over Age 50

Most Frequently Appearing Drug Combinations in Controls Over Age 50

Estrogens and Progestational Agents

Narcotics and NSAIDs

Expectorants and Macrolides

Beta Adrenergics and Glucocorticoids

Narcotics and Antibiotics

Skeletal Muscle Relaxants and NSAIDs

Nasal Anti-inflammatory Steroids and Antihistamines

Penicillins and Antihistamines

e. Use of Driver-Impairing Medications

The data were further analyzed to identify the rate of use of medications that we defined as being potentially driver impairing (PDI). (Refer to Appendix VII, Table 4a and 4b). See Table 9 below for examples of driver impairing drug classes and their possible effects.

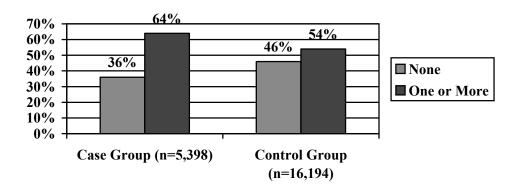
Table 9: Examples of Drug Classes That May Impair Driving

Possible Effects
Hypoglycemia
Blurred vision
Sedation
Hypotension
Sedation
Sedation, dizziness
Sedation, dizziness
Fainting (syncope)
Ataxia, dizziness, sedation
Dizziness, sedation

Many of the above mentioned driver impairing drug classes have been determined to be potentially inappropriate for use particularly by older adults. These drugs cause excessive sedation, confusion, orthostatic hypotension, cardiac effects, depression, and weakness. Additional types of drugs are risky when used in the older adult with certain underlying medical conditions, such as cardiac conditions, depression, seizure disorders, respiratory disorders, parkinsonism, and cognitive impairment. The use of these potentially inappropriate drugs in older patients with these conditions may exacerbate these conditions or cause CNS side effects (Fick, 2003).

The use of PDI medications is widespread in the both case groups. Approximately 64 percent of the **Over Age 50 Case** patients received potentially driver-impairing medications. In contrast, 54 percent of the **Over Age 50 Control** patients received potentially driver-impairing medications. (See Figure 10). Similarly, 35 percent of the **Under Age 50 Case** patients received potentially driver-impairing medications compared to 24 percent of the **Under Age 50 Control** patients.

Figure 10: Potential Driver Impairing Medication Use in Over Age 50 Cases and Controls



Interestingly, 19 percent of the Over Age 50 Case Females who had one or more prescriptions (2,204 patients) had received a prescription for the Narcotic Analgesic Class in the 60 day period preceding the motor vehicle crash. Similarly, 19 percent of the Over Age 50 Case Males who had one or more prescriptions (1,660 patients) had received a prescription for the Narcotic Analgesic Class. Furthermore, 8 percent of prescription-receiving females in the Over Age 50 Case group received prescriptions for Skeletal Muscle Relaxants. And a somewhat fewer number (5%) of prescription-taking males received prescriptions for Skeletal Muscle Relaxants. Both the narcotic analgesic class and the skeletal muscle relaxant class are extremely driver impairing.

Other worrisome PDI medication classes that appeared in frequencies greater than 5 percent of Cases Over Age 50 include Antidepressants (18%), Anti-Diabetic Agents (14%), Anti-anxiety agents (10%), Anticonvulsants (5%), and Anti-hypertensive Agents (38%). (Refer to Appendix VII, Table 4a and 4b).

f. Appearance of PDI Medical Conditions

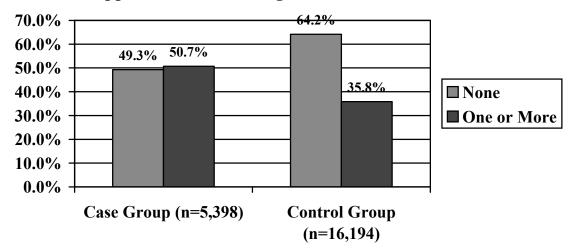
We performed additional analysis to identify the percentage of individuals in the Case group and the Control group who have been diagnosed with PDI medical conditions. (Appendix VII, Tables 7a and 7b). See Table 10 below for examples of driver impairing medical conditions and their possible effects.

Table 10: Examples of Medical Conditions That May Impair Driving

Condition	Possible Effects
Diabetes	Hypoglycemia
Arthritis	Stiffness
Epilepsy	Seizures
Depression	Inattentiveness
Insomnia	Daytime Sleepiness
Arrhythmias	Fainting (syncope)
Cardiovascular disease	Stroke, MI,
Alzheimer's	Confusion
Parkinsonism	Stiffness, dementia

Of considerable note is that nearly 51 percent of **the Over Age 50 Case** patients submitted an insurance claim for a diagnosis for PDI conditions in the Event Window. This is especially important in light of the fact that only 36 percent of the **Over Age 50 Control** patients submitted an insurance claim for a PDI condition. Clearly, a higher percentage of individuals in the crash-involved groups had been diagnosed with one of the PDI conditions (See Figure 11).

Figure 11: Potential Driver Impairing Disease Appearance in Over Age 50 Cases and Controls



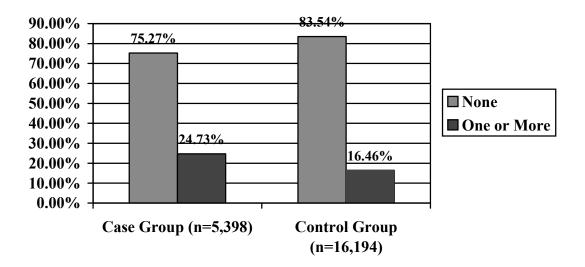
The most frequently appearing diagnoses in the **Over Age 50 Case Group** are Cardiovascular Disease (17.9%), Hypertension (16%), Allergies (15%), Diabetes (9.7%), and Respiratory Infections (7.4%). In the **Over Age 50 Control Group** the most frequently appearing diagnoses group are Cardiovascular Diseases (8.9%), Hypertension (8%), Allergies (6%), Diabetes (4%), and Respiratory Infections (4%). Thus, while the top five conditions are basically the same in the cases and controls, the frequency of appearance is about twice the rate in the cases than in the controls.

g. Drug Interactions and Drug/Disease Conflicts

We performed further analyses on the prescription and medical data to determine whether the use of multiple medications, which increases the risk of drug/drug interactions and drug/disease conflicts, occurred more frequently among the crash-involved drivers. We looked for three factors that can have driver-impairing effects: drug interactions, disease/drug interactions that aggravate a driver impairing disease, or a disease that can influence the side effects of a driver-impairing drug.

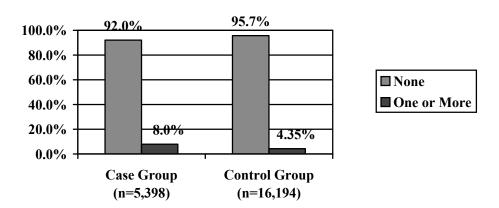
We identified 24 percent of the Over Age 50 Case patients as exhibiting overlapping use of medications that are known to interact. (Appendix VII, Table 5a and 5b). Conversely, only 16 percent of the Over Age 50 Control patients exhibited concomitant use of interacting medications. (See Figure 12). In the Ages 16-49 case group, 8 percent exhibited overlapping drugs know to interact, compared to only four percent (4%) of the Ages 16-49 controls.

Figure 12: Drug Interaction Conflicts Among Over Age 50 Cases and Controls



Eight percent (8%) of the Over Age 50 Case patients exhibited potential Drug/Disease conflicts compared to only 4 percent in the control group (See Figure 13). (Refer also to Appendix VII, Tables 8a and 8b). Among the Ages 16-49 Cases 2 percent exhibited potential drug/disease conflicts compared to 1 percent of the controls.

Figure 13: Drug/Disease Conflicts Among Cases and Controls Over Age 50



2. General Findings: Case Control Analysis

The odds ratios for driver impairing medications used, driver impairing disease groups present, drug interaction conflicts, and drug-disease conflicts are listed in Appendix VIII Table 1 through Table 4.

a. Driver Impairing Medications

As indicated by Appendix VIII, Table 1, 39 of the 90 driver impairing drug pharmacologic classes had point estimate odds ratios over 1.2, with the lower bound also over 1.1 (indicating p \leq .05). Of these 35 pharmacologic classes, 27 have specific warnings about sedation, dizziness, drowsiness, and the need for caution when driving especially until the effects of the drug on driving are known.

Over age 50 drivers taking specific driver-impairing medications seem more likely to be involved in motor vehicle crashes than those not taking these medications (See Table 11). For example, the likelihood of being involved in an MVC for people taking barbiturates is 7.50 times greater than that for people not taking barbiturates. People taking antihistamines were three times more likely to have an MVC than people not taking antihistamines. Non-narcotic antitussives (also available as a common nonprescription medicine) appear to increase MVC risk by 123 percent.

This study did not consider the possible influence of maturation bias or survivor effects. We were not able to determine *de novo* exposure or prolonged exposure to prescribed medications. These are useful variables to evaluate because certain side effects are more prominent at the initiation of therapy and with continued use the body adapts to these side effects. Further research is needed to assess MVC risks when comparing initial medication use with longer-term medication use.

Table 11: Top 15 Medication classes with Highest Odds Ratios $(p \le .05)^2$

Tuble 11. Top 15 Medication C	Odds Ratio (OR)	Odds Ratio (OR) Indication for			
Drug Class	with 95% C.I.	Possible Effects	Use		
2749 0.460					
D A D D T D A T C	(0.0- 00.04)		Nervousness,		
BARBITURATES	7.50 (2.35, 23.91)	Drowsiness	Seizures		
		Dizziness,			
		bronchospasm. Avoid			
		alcohol and other			
	0.00 (4.05.0.55)	medicines that affect the			
ANTIHISTAMINES	3.00 (1.05, 8.55)	CNS	Allergies		
		Dizziness, drowsiness,			
ANTITUSSIVES, NON-NARCOTIC	2.23 (1.30, 3.82)	depression	Cough		
		Dizziness, drowsiness,			
ANALGESICS, NARCOTICS	2.22 (1.98, 2.49)	blurred vision	Pain		
ANTIPSYCHOTICS, ATYPICAL,					
DOPAMINE, & SEROTONIN ANTAG	2.20 (1.37, 3.52)	Drowsiness	Schizophrenia		
		Dizziness, drowsiness,			
SKELETAL MUSCLE RELAXANTS	2.09 (1.71, 2.55)	lightheadedness	Muscle Spasms		
ANTI-ANXIETY DRUGS	2.00 (1.72, 2.31)	Drowsiness	Anxiety		
ANTICONVULSANTS	1.97 (1.64, 2.38)	Drowsiness	Seizures		
SEROTONIN-2					
ANTAGONIST/REUPTAKE	4 00 (4 40 0 44)	Dizziness, drowsiness,			
INHIBITORS (SARIS)	1.90 (1.49, 2.44)	headache, confusion	Depression		
		Dizziness, drowsiness,			
BELLADONNA ALKALOIDS	1.85 (1.08, 3.19)	confusion	GI symptoms		
			Diabetes		
INSULINS	1.80 (1.45, 2.22)	Hypoglycemia	Mellitus		
		Hypotension,			
LD (DOTENIO) (EQ. 6) (C. E. E. C. C. C. E. E. C.	4 = 0 (4 4 = 0 = 0)	drowsiness, blurred			
HYPOTENSIVES, SYMPATHOLYTIC	1.79 (1.17, 2.74)	vision	Hypertension		
SEROTONIN-NOREPINEPHRINE		L			
REUPTAKE INHIB (e.g.,	,, ,	Dizziness, drowsiness,			
VENLAFAXINE)	1.78 (1.19, 2.66)	hypertension, seizures	Depression		
PLATELET AGGREGATION		Headache, weakness,	Stroke		
INHIBITORS	1.69 (1.17, 2.43)	shakes, aches	prevention		
			Nausea,		
ANTIEMETIC/ANTIVERTIGO AGENTS	1.63 (1.17, 2.28)	Drowsiness, dizziness	vomiting, vertigo		

Seven of the fifteen medication classes in our analysis with highest odds ratios are drug classes that have been reported to be especially problematic in older patients (Beers MH, 1997). Medications classes such as barbiturates, belladonna alkaloids, antihistamines, long half-life anti-anxiety agents, antiemetic/antivertigo agents, certain narcotic analgesics, skeletal muscle relaxants, certain platelet aggregation inhibitors, fluoxetine, certain hypotensives, and certain antipsychotic agents are considered potentially inappropriate for use in older adults (Curtis et al., 2004).

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² Study subjects taking barbiturates and mast cell stabilizers had the highest Odds Ratios. However, there are only ten cases and four controls taking barbiturates and seven cases and seven controls taking mast cell stabilizers. The Odds Ratios for those two drugs need to be confirmed by further studies. The remaining drug classes exhibited larger numbers of study subjects taking these drugs.

A review of the literature identified a number of articles that assessed the relationship between medications and automobile crashes in the older adult. An article published by McGwin in 2000 found that drivers over age 65 in Alabama had elevated odds ratios (OR) at the 95 percent confidence interval for involvement in at-fault automobile crashes for the following medication classes:

NSAIDs	OR=1.7 (CI: 1.0, 2.6);
ACE Inhibitor hypotensives	OR=1.6 (CI: 1.0, 2.7);
Anticoagulants	OR=2.6 (CI: 1.0, 73)
Benzodiazepine use	OR=5.2 (CI: 0.9, 30).

And in 2000, Sims reported:

Hypnotic medications	RR=2.9; 95% CI:1.3, 6.	.6; p=0.01 (Sims, et al,
2000)		

The results of our analyses were remarkably similar:

NSAIDs	OR=1.58 (CI: 1.41, 1.76)
ACE Inhibitors	OR=1.23 (CI: 1.11, 1.37);
Oral Anticoagulants	OR=1.31 (CI: 1.01, 1.70), and
Benzodiazepine anti-anxiety	OR=2.0 (CI: 1.72, 2.31).

In each of these cases, the Odds Ratios (or relative risk in the case of the Sims study) identified were similar in magnitude to those of the cited studies.

Additional studies published in years 1992-2000, report associations among medication usage, the older adult, and motor vehicle crashes (Foley, 1995, Leveille, 1994, Ray, 1992, Hemmelgam, 1997, Hu, 1998, and Koepsell, 1994).

b. Driver Impairing Disease Groups

Study subjects with driver-impairing diseases appeared more likely to have a MVC than subjects that present without these disorders. For example, the Odds Ratio for head trauma is 36, suggesting that subjects with a history of that condition³ were 36 times more likely to be involved in a MVC than people without that history. Acidosis had the second highest Odds Ratio of 15. The study design methodology attempted to rule out head trauma as a result of a MVC by employing temporal sequence and date of service screens. The resulting risk was a measure of subjects with existing head trauma who subsequently experienced an MVC.

As indicated by Appendix VIII, Table 2, 79 of the 200 driver impairing disease classes (40%) had statistically significant odds ratios over 1.4. The fifteen disease groups with highest odds ratios are shown below in Table 12. Note that many of these disease groups have either a small number of cases with diseases or small number of controls

³ The study design methodology attempted to rule out head trauma as a result of an MVC by employing temporal sequence and date of service screens. The resulting risk was a measure of subjects with existing head trauma, who subsequently experienced an MVC.

with diseases or both, and although the p values were less than or equal to .05, caution must be taken when using these estimated values for Odds Ratios. For example, the disease group "acidosis" had only five cases and one control with the disease; disease group "neurotic disorder" had four cases and one control with the disease; disease group "delirium, acute" had four cases and one control with the disease; disease group "consciousness alteration" had 12 cases and four controls with the disease.

Conversely, the following disease groups had more than 50 cases and elevated Odds Ratios (p≤.05): Depression, Ankylosing Spondylitis, Anxiety Disorders, CNS Excitation (nervousness, confusion), Back Pain, Congestive Heart Failure, Asthma, Diabetes Mellitus, Abdominal Pain, COPD, Ischemic Heart Disease, Cardiovascular Disease, GI Hemorrhage, Hypertension, Respiratory Infections, Arthritis, Bleeding, Arrhythmias, and Thyroid Disease.

The conditions that we identified with elevated Odds Ratios can be grouped by Disorder Type as follows:

CNS Disorders: Depression, Anxiety Disorders, Nervousness and Confusion, Neurotic Disorders, Delirium, Drowsiness, personality Disorders, Alcoholism, Insomnia, Extrapyramidal Reactions, Anxiety Disorders, and Bipolar Disorders

Previous studies have shown some association between depression and crashes (Sims, 2000). Patients who suffer from depression may be at higher risk for motor vehicle crashes. They have impaired attention and concentration, anxiety, irritability, agitation, fatigue, insomnia, and weakness. The depressed patient may also take risks, make suicidal gestures, or consume alcohol. Similarly, side effects of antidepressants may adversely affect cognitive and psychomotor function. Crashes may also result from the tricyclic anti-depressant drug-induced postural hypotension, cardiac arrhythmias, and convulsions (Edwards, 1995). Alcoholism and alcohol use have definitively been associated with motor vehicle crashes by numerous studies, both in the U.S. and worldwide. In our study we found an increased risk of automobile crashes in patients with the conditions below showing elevated significant risks.

Depression,	OR=3.99; CI:3.19, 4.99; p=.000.
Alcoholism	OR=5.44; CI:2.95-10.01, p=.000;
Stress disorders	OR=5.4; CI:1.81-16.11, p=.002;
Psychoses	OR=3.27; CI:1.44-7.42, p=.005;
Insomnia	OR=3.16; CI:1.69-5.92, p=.000;
Anxiety disorders	OR=2.87; CI:2.03-4.04, p=.000;
Drowsiness	OR=9.0; CI:2.9-27.91, p=.000;
Extrapyramidal disorders	OR=3.6; CI:1.56-8.33, p=.003; and
CNS excitation	OR=2.55; CI:1.94-3.35, p=.000

Joint and Muscle Disorders: Ankylosing Spondylitis, Arthritis, Osteoarthritis, Back Pain, and Muscle Spasms

Arthritis, history of falls, back pain and other impairments of physical function have been associated with increased crash involvement among older adults (Lyman, 2001 and Sims, 2001). In our analysis, we found increased risks in patients with:

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Ankylosing spondylitis,

Back pain,

Fractures and injuries,

Muscle spasms,

Arthritis,

OR=3.33; CI:2.23-4.96, p=.000;

OR=2.42; CI:2.03-2.88, p=.000;

OR=2.34; CI:2.04-2.69, p=.000;

OR=2.15; CI:1.33-3.5, p=.002; and

OR=1.54; CI:1.12-2.11, p=.008.
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Endocrine Disorders: Diabetes Mellitus and Thyroid Disorder

The impact of diabetes mellitus on older drivers has been questioned. Although McGwin et al. (1999) reported an adjusted OR of 2.5 (CI: 0.9-7.2) among drivers over age 65 who had been involved in crashes in the 4-year study period, he concludes that there is no evidence that older drivers with diabetes are at increased risk for automobile crashes. He does state that there remains the possibility that those with more severe diabetes or have had multiple crashes are at increased risk (McGwin, 1999). Conversely, Koepsell et al. found injury risk 2.6 times higher in older diabetic drivers (95% CI:1.4-4.7) and especially those treated with insulin (OR=5.8; CI:1.2-28.7) or oral hypoglycemic agents (OR=3.1; CI:0.9-11.0) (Koepsell, 1994). Drivers with medical conditions that can change abruptly, such as diabetes, are at increased risk for crashes (Carr, 2000). Our analysis showed an association of:

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Diabetes mellitus, OR=2.07; CI:1.81-2.37, p=.000. Diabetic ketoacidosis, OR=5.44; CI:1.81-16.11, p=.002.
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Cardiovascular Disorders: Congestive Heart Failure, Ischemic Heart Disease, Cardiovascular Disease, Hypertension, Arrhythmias, Hypotension, Syncope, Angina, and Edema

McGwin (2000) found that older drivers with heart disease OR=1.5 (CI:1.0-2.2) or stroke OR=1.9 (CI: 0.9-3.9) were more likely to be involved in at-fault automobile crashes. Sims et al. (2000) noted increased risk with self-reported stroke or transient ischemic attacks (RR=2.7; CI:1.1-6.6 p=.03). Gresset et al. (1994) reported that arrhythmias were associated with a significant increased risk of road crashes (OR=1.63, CI:1.0-2.65). Koepsell et al. (1994) found increases in injury risk in older drivers with coronary artery disease OR=1.4. Our analysis similarly showed an increase in risk for motor vehicle crashes and various cardiovascular disorders.

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Angina, OR=2.18; CI:1.15-4.15, p=.018; OR=2.1; CI:1.53-2.89, p=.000; OR=1.97; CI:1.2-3.25, p=.008; OR=1.83; CI:1.48-2.27, p=.000; OR=1.69; CI:1.07-2.67, p=.025; OR=1.65; CI:1.48-1.84, p=.000; and Arrhythmias, OR=1.5; CI:1.16-1.94, p=.002.
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Respiratory Disorders: Asthma, COPD, Respiratory Infections, Bronchopneumonia, and pulmonary edema.

Respiratory disorders are not specifically associated with increased risk for driver impairment. However, individuals with respiratory disorders often suffer from reduced sleep quality associated with breathing difficulties. Sleep apnea has been associated with increased risk of motor vehicle crashes (Masa et al., 2000). In our analysis we did find increased risk in patients with:

Asthma,	OR=2.08; CI:1.55-2.8, p=.000;
COPD,	OR=1.89; CI:1.47-2.43, p=.000;
Respiratory Infections,	OR=1.56; CI:1.35-1.82, p=.000;
Sleep apnea,	OR=1.83; CI:1.26-2.67, p=.002; and
Pulmonary edema,	OR=2.63; CI:1.28-5.38, p=.008.

Table 12: Top 15 Disease groups with Highest Odds Ratios ($p \le .05$)

Disease Groups	Odds Ratio with 95% C.I.	Driver Impairing Effects
HEAD TRAUMA	36.00 (11.09, 116.90)	Confusion, dizziness, drowsiness
ACIDOSIS	15.00 (1.75, 128.40)	
NEUROTIC DISORDER	12.00 (1.34, 107.37)	Confusion
DELIRIUM, ACUTE	10.50 (2.18, 50.55)	Confusion, seizures
CONSCIOUSNESS ALTERATION	9.00 (2.90, 27.91)	Drowsiness,
PERSONALITY DISORDERS	9.00 (1.82, 44.59)	Confusion, impaired judgment
HEMORRHAGE, UNSPEC	6.00 (1.10, 32.76)	Dizziness
ALCOHOLISM	5.44 (2.95, 10.01)	Confusion, dizziness, drowsiness, impaired judgment
DIABETIC KETOACIDOSIS	5.40 (1.81, 16.11)	Confusion, dizziness, impaired judgment
STRESS DISORDERS	5.40 (1.81, 16.11)	Impaired judgment
VISUAL DISTURBANCES	4.71 (1.83, 12.16)	Impaired vision
DEPRESSION	3.99 (3.19, 4.99)	Confusion, drowsiness, impaired judgment
PSYCHIATRIC DISORDERS	3.72 (2.99, 4.63)	Confusion, anxiety, drowsiness, impaired judgment
PLEURAL EFFUSION	3.69 (1.78, 7.68)	Breathing difficulties
EXTRAPYRAMIDAL REACTIONS	3.60 (1.56, 8.33)	Tremors, muscle difficulties

Head trauma and some other disease groups such as hemorrhage and alteration of consciousness could be both causes and results of MVCs. Due to the limitations of claims data, it is difficult to determine with assurance the true temporal relationship that existed.

c. Drug Interaction Conflicts and Drug-Disease Conflicts

Drug interaction conflicts and drug-disease conflicts that result in increased driver impairing effects were also analyzed.⁴ Odds ratios of each conflict are displayed in Appendix VIII, Tables 3 and 4. Most conflicts have either a small number of cases, a small number of controls, or both, which makes the full assessment of their effects problematic without further analysis.

Table 13 listed 10 drug-drug (interaction) conflicts with highest statistically significant odds ratios, and Table 14 shows the 10 drug-disease conflicts with the highest statistically significant odds ratios.

The study results suggest that interacting medicines had higher Odds Ratios than when the same medicines were taken alone. For example, Odds Ratios for insulin-release stimulant type hypoglycemics and for tricyclic antidepressants were 1.50 and 1.41 respectively, while Odds Ratio for subjects taking both was 4.50.⁵ The magnitude that the Odds Ratio is increased due to the presence of an interacting drug varies among drug-drug pairs. The Odds Ratio for serotonin-norepinephrine reuptake-inhibitors (SNRIs) antidepressants itself is 1.78 and for non-barbiturate sedative-hypnotics is 1.48. If each were used together with anticonvulsants, the Odds Ratios became 3.67 and 3.92 respectively. It is interesting to note that the Odds Ratios for certain drugs alone were higher than together with other drugs. For example, the Odds Ratio for barbiturates itself is 7.50 but is 6.00 when taken with anticonvulsants.⁶ Due to small sample sizes (there were ten cases and four controls taking barbiturates and six cases and three controls taking both barbiturates and anticonvulsants), extra caution needs to be taken when examining the risk shift for these conflicts.

⁴ Therapeutic conflicts between medications and existing diseases and other drugs were determined using a proprietary set of clinical rules used in the RxWiseTM adverse drug event detection system

⁵ Co-linearity with the underlying diseases cannot be ruled out by our study methodology

⁶ This may be clinically reasonable due to the fact that the efficacy of some common anticonvulsants are potentiated by barbiturates used in smaller doses than those doses used for sedation alone

Table 13: Drug Interaction Conflicts with Highest Odds Ratios (p≤.05)

Table 15: Drug Interaction Connects with Highest Odds Ratios (ps. 05)			
Drug 1	Drug 2	Odds Ratio with 95% C.I.	
ANTICONVULSANTS	ANTIFUNGAL AGENTS	21.00 (2.58, 170.69)	
SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS)	QUINOLONES	21.00 (2.58, 170.69)	
SKELETAL MUSCLE RELAXANTS	ANTIPSYCHOTICS, ATYPICAL, DOPAMINE, & SEROTONIN ANTAG	18.00 (2.17, 149.52)	
HYPOGLYCEMICS, INSULIN-RELEASE STIMULANT TYPE	ABSORBABLE SULFONAMIDES	15.00 (1.75, 128.40)	
SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	ALPHA-2 RECEPTOR ANTAGONIST ANTIDEPRESSANTS	15.00 (1.75, 128.40)	
ANTICONVULSANTS	BELLADONNA ALKALOIDS	12.00 (1.34, 107.37)	
TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	ANTIPSYCHOTICS, ATYPICAL, DOPAMINE,& SEROTONIN ANTAG	10.50 (2.18, 50.55)	
ANTI-ANXIETY DRUGS	LINCOSAMIDES	7.50 (1.46, 38.66)	
SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	SEROTONIN- NOREPINEPHRINE REUPTAKE- INHIB (SNRIS)	7.50 (1.46, 38.66)	
BARBITURATES	ANTICONVULSANTS	6.00 (1.50, 23.99)	

Most drug-disease conflicts had higher Odds Ratios than the drugs and diseases alone. Narcotic analgesics had an Odds Ratio of 2.22 while the Odds Ratio of the conflict of narcotic analgesics and Chronic Hepatitis C without coma is 12.00. The Odds Ratio of alpha/beta-adrenergic blocking agents itself is 1 compared to 7.5 for the conflict of alpha/beta-adrenergic blocking agents and other primary cardiomyopathies.

As indicated in Appendix VIII, Table 3 and Table 4, only a small number of cases and controls experienced drug-drug conflicts and drug-disease conflicts. The estimated Odds Ratios and their 95 percent confidence interval are questionable. It is also premature to come to any conclusion about the increase and decrease of Odds Ratios for the conflicts compared to those for the drugs and diseases alone.

Table 14: Drug Disease Conflicts with Highest Odds Ratios (p≤.05)

Drug	Disease	Odds Ratio with 95% C.I.
GLUCOCORTICOIDS	ANXIETY STATE UNSPEC	15.00 (1.75, 128.40)
ANALGESICS, NARCOTICS	CHR HEPATITIS C WOCOMA	12.00 (1.34, 107.37)
ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT- TYPE	UNS HYPERTENSION	12.00 (1.34, 107.37)
ALPHA/BETA-ADRENERGIC BLOCKING AGENTS	OTH PRIMARY CARDIOMYOPATHIES	7.50 (1.46, 38.66)
CALCIUM CHANNEL BLOCKING AGENTS	SYNCOPE/COLLAPSE	7.00 (1.81, 27.07)
HYPOTENSIVES, ACE INHIBITORS	SYNCOPE/COLLAPSE	6.75 (2.08, 21.92)
ORAL ANTICOAGULANTS, COUMARIN TYPE	OTH PRIMARY CARDIOMYOPATHIES	6.00 (1.10, 32.76)
HYPOTENSIVES, SYMPATHOLYTIC	DIABETES UNCOMPL TYPE II	4.50 (1.60, 12.64)
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES UNCOMPL TYPE I	3.67 (1.52, 8.85)
BETA-ADRENERGIC AGENTS	BENIGN HYPERTENSION	3.20 (1.58, 6.47)

d. Odds Ratios for Categorical Variables

Number of medications used, number of driver-impairing medications used, number of driver-impairing disease groups, number of drug-drug conflicts, and number of drug-disease conflicts have been converted into categorical variables. The unadjusted Odds Ratios are shown in Table 15.

Table 15: Odds Ratios of Categorical Variables

Group	Odds Ratio with 95% C.I.
1 or more medications	1.43 (1.32, 1.54)
1 – 2 PDI medications	1.29 (1.19, 1.41)
3 or more PDI medications	1.87 (1.70, 2.06)
1 – 2 PDI diseases	1.49 (1.37, 1.63)
3 or more PDI diseases	2.20 (2.01, 2.42)
1 – 2 drug-drug conflicts	1.47 (1.33, 1.63)
3 or more drug-drug conflicts	1.92 (1.67, 2.21)
1 or more drug-disease conflicts	2.18 (1.89, 2.52)

Study subjects taking any medications are 1.43 times more likely to be involved in a MVC than people taking no medications.

Compared with study subjects taking no driver-impairing medications, those taking one or two driver-impairing medications are 1.29 times more likely to be involved in a

MVC, while the Odds Ratio for people taking three or more is 1.87. Clearly, study subjects taking driver-impairing medications have higher MVC risk. The more driver-impairing medications study subjects use the higher the MVC risk.

A similar relationship is observed for driver-impairing disease and drug-drug interactions. The risk for study subjects with one or two driver-impairing diseases is 1.49 times higher for people without any driver-impairing diseases, while the Odds Ratios for those with three or more driver-impairing diseases increases to 2.20. Drug-drug conflicts appear to increase the risk of being involved in MVCs. One or two drug-drug conflicts increase the odds by 47 percent while three or more drug-drug interactions increase the MVC odds by 92 percent.

The risk of experiencing a MVC for study subjects with at least one drug-disease conflict is 1.2 times higher than for people without any drug-disease conflicts.

e. Logistic Regression Analysis

A conditional logistic regression was performed using categorical variables for number of medications used, number of driver-impairing medications used, number of driver-impairing disease groups, number of drug interaction conflicts, and number of drug-disease conflicts. Most of the variables left in the model by Forward selection and their Odds Ratios are shown in Table 16. The residual chi-square, which indicates the goodness-of-fit, is 182.18 with a degree of freedom of 193 and p-value of 0.70. The model fits adequately. The same model was tested using unconditional logistic regression by adding the two matching variables: age and sex. The result is quite similar. The Hosmer and Lemeshow Goodness-of-Fit test⁷ indicates again the model fits adequately (p-value=0.3234).

Although variables for Hypersensitivity Pneumonitis (Yes/No), Tuberculosis (Yes/No), Radiation Therapy ICD (Yes/No), Contraceptive Measures (Yes/No), Electrolyte Disorders (Yes/No), and Sickle Cell Anemia (Yes/No) were also left in the model, the p-values indicated that none of these Odds Ratios were significantly different from 1. Only one case had Hypersensitivity Pneumonitis. Five cases had Tuberculosis. Three cases had Contraceptive Measures. Six cases had Electrolyte Disorders. And one case had Sickle Cell Anemia.

The adjusted Odd Ratios differ from the unadjusted ones. For example, people taking one or two driver-impairing medications had an Odds Ratio of 1.17 after adjusting for other variables compared to the unadjusted 1.29. Every Odds Ratio except that for Hepatic Dysfunction was smaller than the unadjusted correspondents. Compared to the unadjusted 2.73, people with HEPATIC DYSFUNCTION had Odds Ratio of 3.0. GI Ulcer, Hepatitis, and Lipid Abnormalities had Odds Ratios of 1.20, 1.36, and 1.12 when computed directly, while their Odds Ratios became 0.53, 0.29, and 0.76 in the regression model.

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⁷ Goodness-of-fit statistics examine the difference between the observed frequency and the expected frequency for groups of patients. The statistic can be used to determine if the model provides a good fit for the data. If the P-value is large, then the model is well calibrated and fits the data well; if the P-value is small (smaller than alpha), then the model is not well calibrated. One such statistic is the Hosmer-Lemeshow goodness-of-fit statistic.

Table 16: Adjusted Odds Ratios from the Regression Model

Table 16: Adjusted Odds Ratios from	Odds Ratio with 95%
Variable	C.I.
1 – 2 PDI medications (Yes/No)	1.17 (1.08, 1.28)
3 or more PDI medications (Yes/No)	1.38 (1.25, 1.52)
1 – 2 PDI diseases (Yes/No)	1.15 (1.04, 1.27)
3 or more PDI diseases (Yes/No)	1.27 (1.09, 1.47)
Alcoholism (Yes/No)	2.44 (1.23, 4.85)
Asthma (Yes/No)	1.48 (1.07, 2.04)
Cardiovascular Disease (Yes/No)	1.16 (1.01, 1.32)
Depression (Yes/No)	2.02 (1.50, 2.73)
Encephalopathic Syndrome (Yes/No)	0.10 (0.01, 0.92)
GI Ulcer (Yes/No)	0.53 (0.30, 0.91)
Hepatic Dysfunction (Yes/No)	3.00 (1.61, 5.61)
Hepatitis (Yes/No)	0.29 (0.10, 0.82)
Hyperthyroidism (Yes/No)	2.50 (1.03, 6.09)
Anaphylactic Shock (Yes/No)	2.01 (1.23, 3.28)
Lipid Abnormalities (Yes/No)	0.76 (0.65, 0.88)
Lymphadenopathy (Yes/No)	0.10 (0.01, 0.76)
Diabetes Mellitus I and II (Yes/No)	1.49 (1.27, 1.75)
Head Trauma (Yes/No)	16.87 (5.00, 56.91)
Ketoacidosis (Yes/No)	3.45 (1.05, 11.41)
Syncope (Yes/No)	2.04 (1.16, 3.61)
Diarrhea, Gastroenteritis (Yes/No)	1.45 (1.17, 1.80)
CNS Excitation (Yes/No)	1.62 (1.21, 2.18)
Pleural Effusion-D (Yes/No)	2.34 (1.06, 5.14)
Surgery (Yes/No)	2.32 (1.04, 5.17)
Colon, Irritable (Yes/No)	0.39 (0.18, 0.85)
Gerd (Yes/No)	1.53 (1.14, 2.05)
Cancer (Yes/No)	0.61 (0.47, 0.79)
Fractures and Injuries (Yes/No)	1.67 (1.43, 1.95)
Ankylosing Spondylitis (Yes/No)	1.87 (1.22, 2.88)
Psychoses, Drug Induced (Yes/No)	1.69 (1.25, 2.28)
Visual Disturbances (Yes/No)	2.93 (1.05, 8.18)
Back Pain (Yes/No)	1.73 (1.43, 2.09)

The regression model showed an increase in risk among patients receiving one or more PDI medications (OR=1.17; CI:1.08-1.28) and one or more PDI diagnoses (OR=1.15; CI:1.04-1.27). Alcoholism, Asthma, Cardiovascular Disease, Depression, Hepatic Dysfunction, Hyperthyroidism, Anaphylactic shock, Diabetes Mellitus, Head trauma, Ketoacidosis, Syncope, Gastroenteritis, CNS Excitation, Pleural Effusion, GERD, Fractures and Injuries, Psychoses, Visual Disturbances, and Back Pain continued to demonstrate an association among older drivers and motor vehicle crashes. The medications used to treat these conditions, like a double-edged sword, ameliorate the

underlying condition but also exacerbate other conditions and cause new symptoms with unwanted side effects.

Conditions such as heart disease, insomnia, parkinsonism, cognitive impairment, seizure disorders, COPD, syncope, falls, and diabetes can be negatively impacted by many drugs that are considered inappropriate in the older adult. Our analysis found that many of the potentially inappropriate medications for use by older adults (Beers, 1997) were used by our study patients and many resulted in increased risk for motor vehicle crashes.

IV. CONCLUSIONS

The results of this analysis suggest that both the kinds and number of medication exposures and the characteristics of diseases/disorders present among study subjects may predict an increase in risk for MVCs among older adults. Sample size and claims data constraints place limits on the strength of some of the associations observed. However, from a public policy perspective, these observations provide ample foundation for both further study and targeted consumer and provide educational interventions directed at pre-empting some of the MVC risk through more selective prescription and use of medications concomitant with driving.

It should be noted that the utility of administrative claim data for the purpose of estimating risk of MVC is not conclusively established by this analysis. Historically, claims data has proven to be useful in analysis of medical events relating to the provision of physician, hospital, and pharmaceutical services. Methods can be employed to mitigate the common sources of error in claims databases. However, in this study the use of claims data may require careful design and validation strategies. The use of ICD9 'E' codes for the specification of 'driver' and 'non-driver' status has not been subject to rigorous validation. Because the influence of a PDI disorder or medication is only relevant to the driver involved in a crash, variability in the integrity of coding specificity with respect to driver/non-driver designation could render any attribution of causality moot. Though analysis of administrative claims data remains a relatively inexpensive mechanism for examining the relationship between PDI and MVC among elderly drivers, future studies using these data must include a validation component to elucidate the extent to which driver misidentification may influence results.

From a public policy perspective, the general observations from this analysis are particularly timely given the changes in Medicare to implement drug reimbursement in 2006. This legislation will significantly reduce the cost of medications for Medicare beneficiaries. From an economic perspective, financial barriers to medications act as a governor on excessive and volitional pharmaceutical use, particularly among those with significant budget constraints (e.g., fixed/low income older adults). However, as those financial barriers are lowered, consumers exhibit 'pent up' demand for medications. As has been reported in many studies involving the new implementation of pharmaceutical benefit programs for employers who had previously offered no subsidy for pharmaceuticals, the 'pent-up' demand results in a near- and medium-term surge in medication requests to physicians and subsequent medication usage by beneficiaries. As our results suggest, the numbers of different medications used by study subjects may predict higher risk for MVCs. Thus, a possible unexpected collateral outcome of

making pharmaceuticals more affordable for older adults may be an increase in motor vehicle crashes for this population.

As the population continues to age, an increasingly complex interplay of factors will impact driving safety. Older adults will develop chronic diseases that have driver impairing characteristics such as heart disease and the potential for arrhythmias and syncope; diabetes and the potential for ketoacidosis, hypoglycemia and retinal deterioration; depression and the potential for cognitive disturbances; back pain, arthritis, physical mobility impairment and distracting pain. Layered on to the underlying chronic diseases are the medications used to treat those conditions along with their potential to exacerbate other co-existing conditions, induce side effects, and promote dangerous drug interactions. By demonstrating the potential link between multiple drug therapies and MVCs, this study serves to highlight the need for further examination of the relationships between drugs, diseases and the older driver and the subsequent development of educational programs to increase consumer and healthcare provider awareness of this potential safety issue.

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Appendix I. Potentially Driver Impairing (PDI) Drug Classes

Potential driving impairing drug classes include 409, 500-508, 510, 512-635, 800, 874, 878, 912, 1036-1037, 1300, 1371-1374, 1500, 1566-1570, 1671, 1700, 1720-1728, 1864, 1940, 1943-1945

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C. List of National Drug Code Directory Drug Classes, 1995

0513 Alpha Agonist/Alpha Blockers

CODE	DRUG CLASS	CODE	DRUG CLASS
0100	ANESTHETIC DRUGS	0514	ACE Inhibitors
0117	Anesthetics, Local (Injectable)		
	Anesthetics, General	0600	CENTRAL NERVOUS SYSTEM
0119	Adjuncts to Anesthesia / Analeptics	0626	Sedatives and Hypnotics
0120	Medicinal Gases	0627	Antianxiety Agents
0121	Anesthetics, Topical	0628	Antipsychotic/Antimanics
0122	Anesthetics, Ophthalmic	0630	Antidepressants
0123	Anesthetics, Rectal	0631	Anorexiants/CNS Stimulants
		0632	CNS, Miscellaneous
0200	ANTIDOTES	0633	Alzheimer-Type Dementia
0281	Antidotes, Specific	0634	Sleep Aid Products-OTC
0283	Antidotes, General	0635	Antiemetics
0285	Antitoxins / Antivenins		
0286	Anaphylaxis Treatment Kit	0700	CONTRAST MEDIA/RADIOPHARMACEUT.
	• •	0789	Diagnostics, Radiopaque &
0300	ANTIMICROBIAL AGENTS		Nonradioactive
0346	Penicillins	0790	Diagnostics - Radiopharmaceuticals
0347	Cephalosporins	0791	Therapeutics - Radiopharmaceuticals
0348	Erythromycins/Lincosamides/Macrolides	0792	Miscellaneous
0349	Polymyxins		
0350	Tetracyclines	0800	GASTROINTESTINAL AGENTS
0351	Chloramphenicol/Derivatives	0874	Disorders, Acid/Peptic
0352	Aminoglycosides	0875	Antidiarrheals
0353	Sulfonamides and Trimethoprim	0876	Laxatives
0354	Urinary Tract Antiseptics	0877	Miscellaneous Gastrointestinals
0355	Miscellaneous Antibacterial Agents	0878	Antispasmodics/Anticholinergics
0356	Antimycobacterial/Anti-Leprosy Agents	0879	Antacids
0357	Quinolones/Derivatives		
0358	Antifungals	0900	METABOLIC/NUTRIENTS
0388	Antiviral Agents	0912	Hyperlipidemia
		0913	Vitamins/Minerals
0400	HEMATOLOGIC AGENTS	0914	Nutrition, Enteral/Parenteral
0408	Deficiency Anemias	0915	Repl/Regs of Electrolytes/Water Balance
0409	Anticoagulants/Thrombolytics	0916	Calcium Metabolism
0410	Blood Components/Substitutes	0917	Hematopoietic Growth Factor
0411	Hemostatics/Antihemophelics		
		1000	HORMONES/HORMONAL MECHANISMS
0500	CARDIOVASCULAR-RENAL DRUGS	1032	Adrenal Corticosteroids
0501	Cardiac Glycosides	1033	Androgens/Anabolic Steroids
0502	Antiarrhythmic Agents	1034	Estrogens/Progestins
0503	Antianginal Agents	1035	Anterior Pituitary/Hypothalamic
0504	Vascular Disorders, Cerebral/Peripheral		Function
0505	Agents Used to Treat Shock/Hypotension	1036	Blood Glucose Regulators
0506	Antihypertensive Agents	1037	Thyroid/Antithyroid
0507	Diuretics	1038	Antidiuretics
	Coronary Vasodilators	1039	Relaxants/Stimulants, Uterine
0509	Relaxants/Stimulants, Urinary Tract	1040	Contraceptives
	Calcium Channel Blockers	1041	Infertility
0511	Carbonic Anhydrase Inhibitors	1042	Growth Hormone Secretion Disorder
0512	Beta Blockers		

Appendix I. Potentially Driver Impairing (PDI) Drug Classes

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1100	IMMUNOLOGICS	1600	OTOLOGICS
1180	Vaccines/Antisera	1670	Otic, Topical (Misc)
1181	Immunomodulators	1671	Vertigo/Motion Sickness/Vomiting
1182	Allergenic extracts		
1183	Immune serums	1700	RELIEF OF PAIN
		1720	Analgesics/General
1200	SKIN/MUCOUS MEMBRANE	1721	Analgesics, Narcotic
1264	Antiseptics/Disinfectants	1722	Analgesics, Non-Narcotic
1265	Dermatologics, Misc.	1723	Antimigraine/Other Headaches
1266	Keratolytics	1724	Antiarthritics
1267	Antiperspirants	1725	Antigout
1268	Topical Steroids	1726	Central Pain Syndrome
1269	Burn/Sunburn, Sunscreen/Suntan Products	1727	NSAID
1270	Acne Products	1728	Antipyretics
1271	Topical Anti-infectives	1729	Menstrual Products
1272	Anorectal Products		
1273	Personal Care (Vaginal) Products	1800	ANTIPARASITICS
1274	Dermatitis/Antiprurities	1860	Antiprotozoals
1275	Topical Analgesics	1862	Anthelmintics
		1863	Scabicides/Pediculicides
1300	NEUROLOGIC DRUGS	1864	Antimalarials
1371	Extrapyramidal Movement Disorders		
1372	Myasthenia Gravis	1900	RESPIRATORY TRACT
1373	Skeletal Muscle Hyperactivity	1940	Antiasthmatics/Bronchodilators
1374	Anticonvulsants	1941	Nasal Decongestants
		1943	Antitussives/Expectorants/Mucolytics
1400	ONCOLYTICS	1944	Antihistamines
1479	Antineoplastics, Miscellaneous	1945	Cold Remedies
1480	Hormonal/Biological Response Mod.	1946	Lozenge Products
1481	Antimetabolites	1947	Corticosteroid-Inhalation/Nasal
1482	Antibiotics, Alkaloids, Enzymes		
1483	DNA Damaging Drugs	2000	UNCLASSIFIED/MISCELLANEOUS
		2087	Unclassified
1500	OPHTHALMICS	2095	Pharmaceutical Aids
1566	Glaucoma	2096	Surgical Aids
1567	Cycloplegics/Mydriatics	2097	Dental Preparation
1568	Ocular Anti-infective/Anti-inflammatory	2098	Dentrifice/Denture Products
1569	Miscellaneous Ophthalmics	2099	Mouth Pine, Cold Sore, Canker
1570	Decongestants/Antiallergy Agents		
1571	Contact Lens Products	2100	HOMEOPATHIC PRODUCTS

Appendix II. Potentially Driver Impairing (PDI) Medical Conditions

ICD Group	Potentially Driver Impairing Diagnoses
1566	ABUSE- DRUG
1986	ALCOHOLIC LIVER DISEASE
262	ALCOHOLISM
2646	ALZHEIMER
360	ANAPHYLACTIC SHOCK
268	ANGINA, PECTORIS
269	ANGINA, UNSTABLE
361	ANGIONEUROTIC EDEMA
2658	ANKYLOSING SPONDYLITIS
1562	ANXIETY DISORDERS
273	ARRHYTHMIAS
2602	ARTHRITIS, OSTEOARTHRITIS
2657	ARTHRITIS, PSORIATIC
2601	ARTHRITIS, RHEUMATOID
2603	ARTHROPATHIES, OTHER
274	ASTHMA
275	ATRIAL FIBRILLATION
276	AV BLOCK II TO III
315	BIPOLAR DISORDER
277	BLEPHARASPASM
281	BRADYCARDIA
1203	BRAIN HEMORRHAGE
286	CARDIAC ARREST
287	CARDIOVASCULAR DISEASE
300	CEREBRAL ARTERIOSCLEROSIS
301	CEREBRAL PALSY
306	CIRRHOSIS
307	CNS DEMYELINATING DIS
1409	CNS EXCITATION
102	CONGESTIVE HEART FAILURE
309	COPD
312	DEHYDRATION
1702	DELIRIUM
313	DEMENTIA
314	DEPRESSION
422	DIABETES MELLITUS I AND II
1567	DRUG INDUCED PSYCH DISORDERS
317	DYSKINESIAS
1461	ELECTROLYTE DISORDERS
	ENCEPHALOPATHIC SYNDROME
319	
320	EPILEPSY EVEN DE LA CTIONS
397	EXTRAPYRAMIDAL REACTIONS
2624	FRACTURES AND INJURIES

Appendix II. Potentially Driver Impairing (PDI) Medical Conditions

ICD Group	Potentially Driver Impairing Diagnoses
385	GLAUCOMA,NARROW ANGLE
330	HALLUCINATIONS
424	HEAD TRAUMA
331	HEART BLOCK
347	HYPERTENSION
348	HYPERTHYROIDISM
351	HYPOTENSION
352	HYPOTHYROIDISM
1381	ISCHEMIC HEART DISEASE
367	KIDNEY STONES
421	MALIGNANT NEOPLASM, CNS
379	MYASTHENIA GRAVIS
380	MYELODYSPLASTIC SYNDROME
378	MYOCARDIAL ISCHEMIA
364	MYOCARDITIS
383	MYOPATHY
387	NEUROLEPTIC MALIGNANT SYNDROME
2513	NEUROPATHIES
1671	NUTRITIONAL/ NEURO DEFICIENCY
392	OPTIC NEURITIS
2650	OSTEOGENESIS IMPERFECTA
393	OSTEOMALACIA
2652	OSTEOSARCOMA
394	PANCREATITIS
2461	PANIC DISORDERS
395	PARKINSONISM,PRIMARY
396	PARKINSONISM,SECONDARY
400	PERIPHERAL NEUROPATHY
404	PSEUDOTUMOR CEREBRI
1561	PSYCHOSES
2662	PSYCHOSES, DRUG INDUCED
407	PULMONARY EDEMA
408	PULMONARY EMBOLUS
2653	RENAL OSTEODYSTROPHY
363	RHABDOMYOLYSIS
1977	SEROTONIN SYNDROME SYMPTOMS
1564	STRESS DISORDERS
2648	STROKE
1101	SUBARACHNOID HEMORRHAGE
1894	SUICIDAL BEHAVIOR
919	SYMPTOMS OF DIG-TOXICITY
2581	SYMPTOMS OF ERGOTISM
949	SYNCOPE
1102	VENTRICULAR ARRHYTHMIA

Appendix II. Potentially Driver Impairing (PDI) Medical Conditions

ICD Group	Potentially Driver Impairing Diagnoses
1460	VOLUME DEPLETION

DRUG CLASS	DRUG CLASS
	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
SKELETAL MUSCLE RELAXANTS	SEROTONIN ANTAG
ANTICONVULSANTS	BELLADONNA ALKALOIDS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	LINCOSAMIDES
SEROTONIN-NOREPINEPHRINE	
REUPTAKE-INHIB (SNRIS)	QUINOLONES
TRICYCLIC ANTIDEPRESSANTS & REL.	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
NON-SEL. RU-INHIB	SEROTONIN ANTAG
ANTICONVULSANTS	ANTIFUNGAL AGENTS
	ACE INHIBITOR/CALCIUM CHANNEL
HYPOTENSIVES, ACE INHIBITORS	BLOCKER COMBINATION
INSULINS	LINCOSAMIDES
HYPOGLYCEMICS, ALPHA-GLUCOSIDASE	
INHIB TYPE (N-S)	GASTRIC ACID SECRETION REDUCERS
EYE ANTIINFLAMMATORY AGENTS	MACROLIDES
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	ABSORBABLE SULFONAMIDES
SEROTONIN SPECIFIC REUPTAKE	ALPHA-2 RECEPTOR ANTAGONIST
INHIBITOR (SSRIS)	ANTIDEPRESSANTS
SEROTONIN SPECIFIC REUPTAKE	SEROTONIN-NOREPINEPHRINE
INHIBITOR (SSRIS)	REUPTAKE-INHIB (SNRIS)
ANTI-ANXIETY DRUGS	LINCOSAMIDES
DIGITALIS GLYCOSIDES	TETRACYCLINES
	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,
EXPECTORANTS	STIMULANT-TYPE
	SEROTONIN-NOREPINEPHRINE
INSULINS	REUPTAKE-INHIB (SNRIS)
HYPOGLYCEMICS, INSULIN-RESPONSE	SEROTONIN-NOREPINEPHRINE
ENHANCER (N-S)	REUPTAKE-INHIB (SNRIS)
BARBITURATES	ANALGESICS,NARCOTICS
SEDATIVE-HYPNOTICS,NON-BARBITURATE	BELLADONNA ALKALOIDS
ANTI-ANXIETY DRUGS	ANTIFUNGAL ANTIBIOTICS
ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,	
STIMULANT-TYPE	QUINOLONES
ANALGESIC/ANTIPYRETICS, SALICYLATES	ORAL ANTICOAGULANTS,COUMARIN TYPE
ANTICONVULSANTS	ANTIFUNGAL ANTIBIOTICS
	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
ANTIEMETIC/ANTIVERTIGO AGENTS	SEROTONIN ANTAG
BELLADONNA ALKALOIDS	NITROFURAN DERIVATIVES
ORAL ANTICOAGULANTS, COUMARIN TYPE	LINCOSAMIDES
LIPOTROPICS	LINCOSAMIDES
SKELETAL MUSCLE RELAXANTS	MACROLIDES
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	LINCOSAMIDES
	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
EXPECTORANTS	SEROTONIN ANTAG
EXPECTORANTS	ANTIVIRALS, GENERAL
	ANALGESIC/ANTIPYRETICS,NON-
INSULINS	SALICYLATE
HYPOGLYCEMICS, INSULIN-RELEASE	ANALGESIC/ANTIPYRETICS,NON-
STIMULANT TYPE	SALICYLATE
BARBITURATES	ANTICONVULSANTS
STIMULANT TYPE	SALICYLATE

DRUG CLASS	DRUG CLASS
SEROTONIN-NOREPINEPHRINE	
REUPTAKE-INHIB (SNRIS)	ANTIVIRALS, GENERAL
ANTIPSYCHOTICS, ATYPICAL, DOPAMINE, &	
SEROTONIN ANTAG	MACROLIDES
BETA-ADRENERGIC AGENTS	NITROFURAN DERIVATIVES
EYE ANTIHISTAMINES	LOOP DIURETICS
HYPOGLYCEMICS, INSULIN-RESPONSE	ALPHA/BETA-ADRENERGIC BLOCKING
ENHANCER (N-S)	AGENTS
SEDATIVE-HYPNOTICS, NON-BARBITURATE	ANTICONVULSANTS
,	SEROTONIN-NOREPINEPHRINE
ANTICONVULSANTS	REUPTAKE-INHIB (SNRIS)
GLUCOCORTICOIDS	LINCOSAMIDES
THIAZIDE AND RELATED DIURETICS	LEUKOTRIENE RECEPTOR ANTAGONISTS
SKELETAL MUSCLE RELAXANTS	QUINOLONES
ANTIPSYCHOTICS, ATYPICAL, DOPAMINE, &	QUITOEOTIES
SEROTONIN ANTAG	BETA-ADRENERGIC BLOCKING AGENTS
BETA-ADRENERGIC AGENTS	LINCOSAMIDES
DIGITALIS GLYCOSIDES	ANTI-ANXIETY DRUGS
SEROTONIN SPECIFIC REUPTAKE	ANTI-ANAILTI BROOS
INHIBITOR (SSRIS)	ANALGESICS,NARCOTICS
SEROTONIN SPECIFIC REUPTAKE	ANALGESICS,NAICCOTICS
INHIBITOR (SSRIS)	QUINOLONES
BETA-ADRENERGIC AGENTS	MAST CELL STABILIZERS
	WAST CELL STABILIZERS
ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,& SEROTONIN ANTAG	ANTILLICTAMINEC
	ANTIHISTAMINES SEROTONIN SPECIFIC REUPTAKE
HYPOGLYCEMICS, INSULIN-RESPONSE	
ENHANCER (N-S)	INHIBITOR (SSRIS)
ANTI ANVIETY DDI ICC	SEROTONIN-NOREPINEPHRINE
ANTI-ANXIETY DRUGS	REUPTAKE-INHIB (SNRIS)
ANTI ANVIETY DRUCE	TRICYCLIC ANTIDEPRESSANTS & REL.
ANTI-ANXIETY DRUGS	NON-SEL. RU-INHIB NSAIDS, CYCLOOXYGENASE INHIBITOR -
	TYPE
ORAL ANTICOAGULANTS,COUMARIN TYPE DIGITALIS GLYCOSIDES	
	THIAZIDE AND RELATED DIURETICS
DIGITALIS GLYCOSIDES	ANTIFUNGAL AGENTS
ANTIARRHYTHMICS	QUINOLONES
ACE INHIBITOR/CALCIUM CHANNEL	ALPHA/BETA-ADRENERGIC BLOCKING
BLOCKER COMBINATION	ANTIFUNCAL ANTIPUCTION
CALCIUM CHANNEL BLOCKING AGENTS	ANTIFUNGAL ANTIBIOTICS
INCLUENC	ALPHA/BETA-ADRENERGIC BLOCKING
INSULINS	AGENTS
INSULINS	MACROLIDES
INSULINS	NITROFURAN DERIVATIVES
	TRICYCLIC
HYPOGLYCEMICS, INSULIN-RELEASE	ANTIDEPRESSANT/PHENOTHIAZINE
STIMULANT TYPE	COMBINATNS
HYPOGLYCEMICS, INSULIN-RELEASE	ANAL 05010/ANTID/D57100 0 0 1 10 // 1 ===
STIMULANT TYPE	ANALGESIC/ANTIPYRETICS, SALICYLATES
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	LINCOSAMIDES
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	ANALGESIC/ANTIPYRETICS, SALICYLATES

DRUG CLASS	DRUG CLASS
HYPOGLYCEMICS, INSULIN-RESPONSE	
ENHANCER (N-S)	ORAL ANTICOAGULANTS,COUMARIN TYPE
HYPOGLYCEMICS, INSULIN-RESPONSE	
ENHANCER (N-S)	LINCOSAMIDES
HYPERURICEMIÁ TX - PURINE INHIBITORS	MACROLIDES
HYPERURICEMIA TX - PURINE INHIBITORS	QUINOLONES
HYPERURICEMIA TX - PURINE INHIBITORS	ANTIVIRALS, GENERAL
SEDATIVE-HYPNOTICS,NON-BARBITURATE	ANTIFUNGAL ANTIBIOTICS
,	ALPHA-2 RECEPTOR ANTAGONIST
ANTI-ANXIETY DRUGS	ANTIDEPRESSANTS
ANTI-ANXIETY DRUGS	MAOIS - NON-SELECTIVE & IRREVERSIBLE
ANTI-ANXIETY DRUGS	ANTIFUNGAL AGENTS
ANTI-ANXIETY DRUGS	IMMUNOSUPPRESSIVES
7 WITT AUGUST BROOM	SEROTONIN SPECIFIC REUPTAKE
ANTI-PSYCHOTICS,PHENOTHIAZINES	INHIBITOR (SSRIS)
ANTI-PSYCHOTICS, PHENOTHIAZINES	MACROLIDES
ANTI- OTOHOHOO,I HENOTHIAZINEO	TRICYCLIC
SEROTONIN SPECIFIC REUPTAKE	ANTIDEPRESSANT/BENZODIAZEPINE
INHIBITOR (SSRIS)	COMBINATINS
SEROTONIN SPECIFIC REUPTAKE	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
INHIBITOR (SSRIS)	SEROTONIN ANTAG
TRICYCLIC ANTIDEPRESSANTS & REL.	SEROTONIN-NOREPINEPHRINE
NON-SEL. RU-INHIB	REUPTAKE-INHIB (SNRIS)
TRICYCLIC ANTIDEPRESSANTS & REL.	ANTIPSYCHOTICS, DOPAMINE
NON-SEL. RU-INHIB	ANTAGONISTS, THIOXANTHENES
TRICYCLIC ANTIDEPRESSANTS & REL.	ANTAGONIOTO, ITIIOAANTTIENEO
NON-SEL. RU-INHIB	LINCOSAMIDES
TRICYCLIC ANTIDEPRESSANTS & REL.	ENVOCAVIBLO
NON-SEL. RU-INHIB	ANTIFUNGAL ANTIBIOTICS
TRICYCLIC ANTIDEPRESSANTS & REL.	ANTII GIVOAL ANTIBIO 1100
NON-SEL. RU-INHIB	ANTIFUNGAL AGENTS
ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,	ANTII ONGAL AGENTO
STIMULANT-TYPE	MACROLIDES
OTIMOLARY THE	ANTIPSYCHOTICS, DOPAMINE
ANALGESICS,NARCOTICS	ANTAGONISTS, BUTYROPHENONES
ANALOLOIGO, NAINGO 1100	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
ANALGESICS,NARCOTICS	SEROTONIN ANTAG
ANALGESIC/ANTIPYRETICS, SALICYLATES	PLATELET AGGREGATION INHIBITORS
ANALOLOIO/ANTII TILLIIOO, SALIOTEATES	SEROTONIN-NOREPINEPHRINE
ANTIMIGRAINE PREPARATIONS	REUPTAKE-INHIB (SNRIS)
ANTICONVULSANTS	LINCOSAMIDES
ANTITUSSIVES,NON-NARCOTIC	ANTIVIRALS, GENERAL
ANTITUOSIVES, INCIN-INARCOTIC	ALPHA-2 RECEPTOR ANTAGONIST
SKELETAL MUSCLE RELAXANTS	ANTIDEPRESSANTS
ONLLETAL WIUSOLE NELAXANTS	SEROTONIN-NOREPINEPHRINE
OVELETAL MUSCLE DELAVANTO	
SKELETAL MUSCLE RELAXANTS	REUPTAKE-INHIB (SNRIS)
ANITICMETIC/ANITIVEDTICO ACENTO	SEROTONIN-NOREPINEPHRINE
ANTIEMETIC/ANTIVERTIGO AGENTS	REUPTAKE-INHIB (SNRIS)
ALPHA-2 RECEPTOR ANTAGONIST	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
ANTIDEPRESSANTS	SEROTONIN ANTAG
SEROTONIN-NOREPINEPHRINE	MACDOLIDEC
REUPTAKE-INHIB (SNRIS)	MACROLIDES

DRUG CLASS	DRUG CLASS
SEROTONIN-NOREPINEPHRINE	
REUPTAKE-INHIB (SNRIS)	ANTIFUNGAL AGENTS
NOREPINEPHRINE AND DOPAMINE	ALPHA/BETA-ADRENERGIC BLOCKING
REUPTAKE INHIB (NDRIS)	AGENTS
ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&	
SEROTONIN ANTAG	QUINOLONES
ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&	
SEROTONIN ANTAG	ANTIMALARIAL DRUGS
ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&	
SEROTONIN ANTAG	ANTIVIRALS, GENERAL
BELLADONNA ALKALOIDS	ORAL ANTICOAGULANTS,COUMARIN TYPE
HEPARIN AND RELATED PREPARATIONS	CEPHALOSPORINS - 1ST GENERATION
ORAL ANTICOAGULANTS, COUMARIN TYPE	PLATELET AGGREGATION INHIBITORS
ORAL ANTICOAGULANTS, COUMARIN TYPE	IMMUNOSUPPRESSIVES
EYE ANTIHISTAMINES	MACROLIDES
EYE ANTIHISTAMINES	QUINOLONES
LOOP DIURETICS	MAST CELL STABILIZERS
LOOP DIURETICS	LEUKOTRIENE RECEPTOR ANTAGONISTS
COLCHICINE	QUINOLONES
	ANTIVIRALS, HIV-SPECIFIC, NUCLEOSIDE
ANTIVIRALS, GENERAL	ANALOG, RTI
	ANTIVIRALS, HIV-SPECIFIC, NON-
ANTIVIRALS, GENERAL	NUCLEOSIDE, RTI
ANTIVIRALS, HIV-SPECIFIC, NUCLEOSIDE	ANTIVIRALS, HIV-SPECIFIC, NON-
ANALOG, RTI	NUCLEOSIDE, RTI
MAST CELL STABILIZERS	LEUKOTRIENE RECEPTOR ANTAGONISTS
	SEROTONIN-2 ANTAGONIST/REUPTAKE
CALCIUM CHANNEL BLOCKING AGENTS	INHIBITORS (SARIS)
TRICYCLIC ANTIDEPRESSANTS & REL.	
NON-SEL. RU-INHIB	MACROLIDES
ANTI-ANXIETY DRUGS	MACROLIDES
TRICYCLIC ANTIDEPRESSANTS & REL.	
NON-SEL. RU-INHIB	QUINOLONES
SEROTONIN-NOREPINEPHRINE	
REUPTAKE-INHIB (SNRIS)	LIPOTROPICS
HYPOGLYCEMICS, INSULIN-RELEASE	TRICYCLIC ANTIDEPRESSANTS & REL.
STIMULANT TYPE	NON-SEL. RU-INHIB
ANTIARRHYTHMICS	CALCIUM CHANNEL BLOCKING AGENTS
ANTICONVULSANTS	ORAL ANTICOAGULANTS,COUMARIN TYPE
	SEROTONIN SPECIFIC REUPTAKE
ANTI-ANXIETY DRUGS	INHIBITOR (SSRIS)
SEDATIVE-HYPNOTICS,NON-BARBITURATE	ANALGESICS,NARCOTICS
DIGITALIS GLYCOSIDES	MACROLIDES
	SEROTONIN SPECIFIC REUPTAKE
EXPECTORANTS	INHIBITOR (SSRIS)
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	ORAL ANTICOAGULANTS,COUMARIN TYPE
DIGITALIS GLYCOSIDES	ANTIARRHYTHMICS
TRICYCLIC ANTIDEPRESSANTS & REL.	
NON-SEL. RU-INHIB	ANALGESICS,NARCOTICS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	SEROTONIN SPECIFIC REUPTAKE
SULFONYLUREAS)	INHIBITOR (SSRIS)
ANTI-ANXIETY DRUGS	BETA-ADRENERGIC AGENTS

DRUG CLASS	DRUG CLASS
SKELETAL MUSCLE RELAXANTS	NITROFURAN DERIVATIVES
INSULINS	PLATELET AGGREGATION INHIBITORS
ANTICONVULSANTS	MACROLIDES
HYPOGLYCEMICS, INSULIN-RELEASE	1111 (01 (02)320
STIMULANT TYPE	ANTIFUNGAL AGENTS
ANTICONVULSANTS	NITROFURAN DERIVATIVES
SEROTONIN-NOREPINEPHRINE	ANTIPSYCHOTICS, ATYPICAL, DOPAMINE, &
REUPTAKE-INHIB (SNRIS)	SEROTONIN ANTAG
SEROTONIN-NOREPINEPHRINE	CEITO I GITTII TITTI
REUPTAKE-INHIB (SNRIS)	BETA-ADRENERGIC BLOCKING AGENTS
POTASSIUM SPARING DIURETICS IN	BETATABLENEROID BEGORING AGEINTO
COMBINATION	LEUKOTRIENE RECEPTOR ANTAGONISTS
ANTI-ANXIETY DRUGS	QUINOLONES
HYPERURICEMIA TX - PURINE INHIBITORS	GASTRIC ACID SECRETION REDUCERS
HYPOGLYCEMICS, INSULIN-RELEASE	SEROTONIN SPECIFIC REUPTAKE
STIMULANT TYPE	INHIBITOR (SSRIS)
ACE INHIBITOR/CALCIUM CHANNEL	INTIBITOR (SSRIS)
BLOCKER COMBINATION	BETA-ADRENERGIC BLOCKING AGENTS
SEDATIVE-HYPNOTICS, NON-BARBITURATE	ANTIFUNGAL AGENTS
HYPOGLYCEMICS, INSULIN-RELEASE	ANTIFUNGAL AGENTS
	MACDOLIDEC
STIMULANT TYPE	MACROLIDES
INSULINS	GASTRIC ACID SECRETION REDUCERS
GLUCOCORTICOIDS	MACROLIDES
SKELETAL MUSCLE RELAXANTS	BETA-ADRENERGIC BLOCKING AGENTS
ANTIARRHYTHMICS	GASTRIC ACID SECRETION REDUCERS
CALCIUM CHANNEL BLOCKING AGENTS	LINCOSAMIDES
	TRICYCLIC ANTIDEPRESSANTS & REL.
ANTI-PSYCHOTICS,PHENOTHIAZINES	NON-SEL. RU-INHIB
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	ANTIVIRALS, GENERAL
TRICYCLIC ANTIDEPRESSANTS & REL.	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,
NON-SEL. RU-INHIB	STIMULANT-TYPE
TRICYCLIC ANTIDEPRESSANTS & REL.	=
NON-SEL. RU-INHIB	ANTIVIRALS, GENERAL
	ALPHA-2 RECEPTOR ANTAGONIST
ANTICONVULSANTS	ANTIDEPRESSANTS
ORAL ANTICOAGULANTS, COUMARIN TYPE	CEPHALOSPORINS - 1ST GENERATION
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	ANTIMIGRAINE PREPARATIONS
ANTI-ANXIETY DRUGS	LEUKOTRIENE RECEPTOR ANTAGONISTS
ANTITUSSIVES,NON-NARCOTIC	ANTIHISTAMINES
	SEROTONIN-NOREPINEPHRINE
CALCIUM CHANNEL BLOCKING AGENTS	REUPTAKE-INHIB (SNRIS)
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	NITROFURAN DERIVATIVES
SEROTONIN-2 ANTAGONIST/REUPTAKE	
INHIBITORS (SARIS)	BETA-ADRENERGIC BLOCKING AGENTS
NOREPINEPHRINE AND DOPAMINE	
REUPTAKE INHIB (NDRIS)	BETA-ADRENERGIC BLOCKING AGENTS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	TRICYCLIC ANTIDEPRESSANTS & REL.
SULFONYLUREAS)	NON-SEL. RU-INHIB
SEROTONIN SPECIFIC REUPTAKE	ANTIPARKINSONISM
INHIBITOR (SSRIS)	DRUGS,ANTICHOLINERGIC
INHIBITOR (SSRIS)	DRUGS,ANTICHOLINERGIC

DRUG CLASS	DRUG CLASS
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	LIPOTROPICS
CALCIUM CHANNEL BLOCKING AGENTS	GASTRIC ACID SECRETION REDUCERS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	MACROLIDES
CALCIUM CHANNEL BLOCKING AGENTS	MACROLIDES
ANTICONVULSANTS	PLATELET AGGREGATION INHIBITORS
TRICYCLIC ANTIDEPRESSANTS & REL.	
NON-SEL. RU-INHIB	ORAL ANTICOAGULANTS,COUMARIN TYPE
BETA-ADRENERGIC BLOCKING AGENTS	ANTIMALARIAL DRUGS
EXPECTORANTS	ANTIHISTAMINES
	SEROTONIN SPECIFIC REUPTAKE
INSULINS	INHIBITOR (SSRIS)
INSULINS	ANTIFUNGÀL AGENTS
	NSAIDS, CYCLOOXYGENASE INHIBITOR -
PLATELET AGGREGATION INHIBITORS	TYPE
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	MACROLIDES
PLATELET AGGREGATION INHIBITORS	THYROID HORMONES
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	GASTRIC ACID SECRETION REDUCERS
INSULINS	BETA-ADRENERGIC BLOCKING AGENTS
INSULINS	LIPOTROPICS
CALCIUM CHANNEL BLOCKING AGENTS	ALPHA-ADRENERGIC BLOCKING AGENTS
BETA-ADRENERGIC AGENTS	MACROLIDES
DIGITALIS GLYCOSIDES	CALCIUM CHANNEL BLOCKING AGENTS
DIGITALIO GET OCCIDEO	ALPHA/BETA-ADRENERGIC BLOCKING
DIGITALIS GLYCOSIDES	AGENTS
ACE INHIBITOR/CALCIUM CHANNEL	7.02.1110
BLOCKER COMBINATION	CALCIUM CHANNEL BLOCKING AGENTS
ACE INHIBITOR/CALCIUM CHANNEL	ON LEGICIAL OF IN LEGICIAL PROPERTY OF THE PRO
BLOCKER COMBINATION	ALPHA-ADRENERGIC BLOCKING AGENTS
CALCIUM CHANNEL BLOCKING AGENTS	ANTI-ULCER PREPARATIONS
O/LESION OF WITHER BEGOINING / GEITTO	TRICYCLIC ANTIDEPRESSANTS & REL.
EXPECTORANTS	NON-SEL. RU-INHIB
	SEROTONIN-NOREPINEPHRINE
EXPECTORANTS	REUPTAKE-INHIB (SNRIS)
	TRICYCLIC ANTIDEPRESSANTS & REL.
INSULINS	NON-SEL. RU-INHIB
INSULINS	ANTIVIRALS, GENERAL
HYPOGLYCEMICS, INSULIN-RELEASE	HYPOGLYCEMICS, ALPHA-GLUCOSIDASE
STIMULANT TYPE	INHIB TYPE (N-S)
HYPOGLYCEMICS, INSULIN-RELEASE	HYPOGLYCEMICS, INSULIN-RESPONSE
STIMULANT TYPE	ENHANCER (N-S)
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	SEROTONIN-NOREPINEPHRINE
SULFONYLUREAS)	REUPTAKE-INHIB (SNRIS)
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	PLATELET AGGREGATION INHIBITORS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	ABSORBABLE SULFONAMIDES
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	NITROFURAN DERIVATIVES
OGLI ONTLONEAU)	MITAGI OIVAN DEMIVATIVEO

DRUG CLASS	DRUG CLASS
HYPOGLYCEMICS, INSULIN-RESPONSE	
ENHANCER (N-S)	PLATELET AGGREGATION INHIBITORS
ANTI-ANXIETY DRUGS	NITROFURAN DERIVATIVES
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	ANTIPARKINSONISM DRUGS,OTHER
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	ANTIFUNGAL AGENTS
ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,	
STIMULANT-TYPE	ANTIVIRALS, GENERAL
ANTICONVULSANTS	IMMUNOSUPPRESSIVES
SKELETAL MUSCLE RELAXANTS	LINCOSAMIDES
SEROTONIN-NOREPINEPHRINE	
REUPTAKE-INHIB (SNRIS)	ORAL ANTICOAGULANTS,COUMARIN TYPE
BELLADONNA ALKALOIDS	ANTIFUNGAL AGENTS
	BETA-ADRENERGICS AND
BETA-ADRENERGIC AGENTS	GLUCOCORTICOIDS COMBINATION
BETA-ADRENERGICS AND	
GLUCOCORTICOIDS COMBINATION	BETA-ADRENERGIC BLOCKING AGENTS
BETA-ADRENERGICS AND	
GLUCOCORTICOIDS COMBINATION	LEUKOTRIENE RECEPTOR ANTAGONISTS
LIPOTROPICS	MACROLIDES
LIPOTROPICS	ANTIFUNGAL ANTIBIOTICS
HEPARIN AND RELATED PREPARATIONS	ORAL ANTICOAGULANTS, COUMARIN TYPE
ORAL ANTICOAGULANTS, COUMARIN TYPE	QUINOLONES
ORAL ANTICOAGULANTS, COUMARIN TYPE	CEPHALOSPORINS - 2ND GENERATION
EYE ANTIINFLAMMATORY AGENTS	POTASSIUM SPARING DIURETICS
	POTASSIUM SPARING DIURETICS IN
EYE ANTIHISTAMINES	COMBINATION
ANTIMALARIAL DRUGS	ANTIVIRALS, GENERAL
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	,
SULFONYLUREAS)	GASTRIC ACID SECRETION REDUCERS
LIPOTROPICS	QUINOLONES
SEROTONIN SPECIFIC REUPTAKE	TRICYCLIC ANTIDEPRESSANTS & REL.
INHIBITOR (SSRIS)	NON-SEL. RU-INHIB
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	ORAL ANTICOAGULANTS,COUMARIN TYPE
	HYPOGLYCEMICS, INSULIN-RELEASE
INSULINS	STIMULANT TYPE
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	QUINOLONES
	HYPOGLYCEMICS, INSULIN-RESPONSE
INSULINS	ENHANCER (N-S)
	NOREPINEPHRINE AND DOPAMINE
CALCIUM CHANNEL BLOCKING AGENTS	REUPTAKE INHIB (NDRIS)
HYPOGLYCEMICS, INSULIN-RELEASE	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-
STIMULANT TYPE	SULFONYLUREAS)
INSULINS	QUINOLONES
GLUCOCORTICOIDS	IMMUNOSUPPRESSIVES
DIGITALIS GLYCOSIDES	LOOP DIURETICS
SKELETAL MUSCLE RELAXANTS	ORAL ANTICOAGULANTS,COUMARIN TYPE
HYPOTENSIVES, ACE INHIBITORS	CALCIUM CHANNEL BLOCKING AGENTS

DRUG CLASS	DRUG CLASS
ACE INHIBITOR/CALCIUM CHANNEL	DRUG CLASS
	CACTRIC ACID CECRETION REDUCERS
BLOCKER COMBINATION	GASTRIC ACID SECRETION REDUCERS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	ORAL ANTICOAGULANTS,COUMARIN TYPE
HYPOGLYCEMICS, ALPHA-GLUCOSIDASE	LIDOTDODICE
INHIB TYPE (N-S) SEROTONIN SPECIFIC REUPTAKE	LIPOTROPICS
	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,
INHIBITOR (SSRIS)	STIMULANT-TYPE QUINOLONES
PLATELET AGGREGATION INHIBITORS	POTASSIUM SPARING DIURETICS IN
HYPOTENSIVES, ACE INHIBITORS	
INSULINS	COMBINATION
	ABSORBABLE SULFONAMIDES
LIPOTROPICS	NITROFURAN DERIVATIVES
LIPOTROPICS	ANTIFUNGAL AGENTS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	HYPOGLYCEMICS, INSULIN-RESPONSE
SULFONYLUREAS)	ENHANCER (N-S) LOOP DIURETICS
POTASSIUM SPARING DIURETICS	LOOP DIURETICS
HYPOGLYCEMICS, INSULIN-RESPONSE	ANTIFUNICAL ACENTO
ENHANCER (N-S)	ANTIFUNGAL AGENTS
SKELETAL MUSCLE RELAXANTS	PLATELET AGGREGATION INHIBITORS
BELLADONNA ALKALOIDS	MACROLIDES
BETA-ADRENERGIC AGENTS	BETA-ADRENERGIC BLOCKING AGENTS
ORAL ANTICOAGULANTS, COUMARIN TYPE	THYROID HORMONES
11.101.11.11.10	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-
INSULINS	SULFONYLUREAS)
ANTIMIGRAINE PREPARATIONS	BETA-ADRENERGIC BLOCKING AGENTS
TRICYCLIC ANTIDEPRESSANTS & REL.	LIBOTRORIOS
NON-SEL. RU-INHIB	LIPOTROPICS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	LIBOTRORIOS
SULFONYLUREAS)	LIPOTROPICS
ACE INHIBITOR/CALCIUM CHANNEL	THAZIDE AND DELATED DILIDETICO
BLOCKER COMBINATION	THIAZIDE AND RELATED DIURETICS
TRICYCLIC ANTIDEPRESSANTS & REL.	ANTIMICDAINE DDEDADATIONS
NON-SEL. RU-INHIB	ANTIMIGRAINE PREPARATIONS
ORAL ANTICOAGULANTS, COUMARIN TYPE	MACROLIDES
HYPOTENSIVES, ACE INHIBITORS	LOOP DIURETICS
BETA-ADRENERGIC AGENTS	LEUKOTRIENE RECEPTOR ANTAGONISTS
DICITAL IS CLYCOSIDES	POTASSIUM SPARING DIURETICS IN COMBINATION
DIGITALIS GLYCOSIDES	
LIPOTROPICS	IMMUNOSUPPRESSIVES
CALCIUM CHANNEL BLOCKING AGENTS	BETA-ADRENERGIC BLOCKING AGENTS
HYPOGLYCEMICS, INSULIN-RESPONSE	DETA ADDENIEDOJO DI OCIVINO ACENTO
ENHANCER (N-S)	BETA-ADRENERGIC BLOCKING AGENTS
HYPOGLYCEMICS, INSULIN-RELEASE	OLUMOLOMES
STIMULANT TYPE	QUINOLONES THIAZIDE AND RELATED DIURETICS
HYPOTENSIVES, ACE INHIBITORS	THIALIDE AND KELATED DIUKETICS
HYPOGLYCEMICS, INSULIN-RESPONSE	LIDOTRODICS
ENHANCER (N-S)	LIPOTROPICS
HYPOGLYCEMICS, INSULIN-RELEASE	LIDOTRODICS
STIMULANT TYPE	LIPOTROPICS
ACE INHIBITOR/CALCIUM CHANNEL BLOCKER COMBINATION	LOOP DIURETICS
DLOCKER COMDINATION	LOUF DIUKETIOS

DRUG CLASS	DRUG CLASS
CALCIUM CHANNEL BLOCKING AGENTS	CHOLINESTERASE INHIBITORS
HYPOGLYCEMICS, INSULIN-RELEASE	ONOLINEOTERAGE INTIBITORS
STIMULANT TYPE	NITROFURAN DERIVATIVES
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	NITTOT ORAN DERIVATIVES
SULFONYLUREAS)	ANTIFUNGAL AGENTS
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	ANTII ONGAL AGENTS
SULFONYLUREAS)	ANTIVIRALS, GENERAL
HYPOGLYCEMICS, INSULIN-RESPONSE	ANTIVITALS, GLINLIVAL
ENHANCER (N-S)	ANALGESIC/ANTIPYRETICS, SALICYLATES
HYPOGLYCEMICS, INSULIN-RESPONSE	ANALGESIO/ANTIF TILE 1103, SALIGTEATES
ENHANCER (N-S)	MACROLIDES
HYPOGLYCEMICS, INSULIN-RESPONSE	WACKOLIDES
ENHANCER (N-S)	NITROFURAN DERIVATIVES
TRICYCLIC ANTIDEPRESSANTS & REL.	NITTOT OTAN BERTVATIVES
NON-SEL. RU-INHIB	ANTIPARKINSONISM DRUGS,OTHER
ANALGESIC/ANTIPYRETICS,NON-	ANTII ARRINGONIONI DIROGO,OTTIER
SALICYLATE	PLATELET AGGREGATION INHIBITORS
ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&	1 EATELL MOOREOATION INTIBITION
SEROTONIN ANTAG	BETA-ADRENERGIC AGENTS
ALPHA/BETA-ADRENERGIC BLOCKING	BETT TENEROIS TOLINIO
AGENTS	BETA-ADRENERGIC BLOCKING AGENTS
PLATELET AGGREGATION INHIBITORS	CEPHALOSPORINS - 1ST GENERATION
GLUCOCORTICOIDS	NITROFURAN DERIVATIVES
EYE ANTIINFLAMMATORY AGENTS	QUINOLONES
LTE ANTIINI LAWIWATOKT AGENTS	POTASSIUM SPARING DIURETICS IN
THIAZIDE AND RELATED DIURETICS	COMBINATION
COLCHICINE	MACROLIDES
ANTIVIRALS, HIV-SPECIFIC, PROTEASE	ANTIVIRALS, HIV-SPECIFIC, NUCLEOSIDE
INHIBITORS	ANALOG, RTI
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	71171200,1111
SULFONYLUREAS)	BETA-ADRENERGIC BLOCKING AGENTS
CALCIUM CHANNEL BLOCKING AGENTS	ANTIFUNGAL AGENTS
HYPOGLYCEMICS, INSULIN-RESPONSE	7 AVAIL ON COLLETTO
ENHANCER (N-S)	GASTRIC ACID SECRETION REDUCERS
CALCIUM CHANNEL BLOCKING AGENTS	IMMUNOSUPPRESSIVES
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	HYPOGLYCEMICS, ALPHA-GLUCOSIDASE
SULFONYLUREAS)	INHIB TYPE (N-S)
ANTI-ANXIETY DRUGS	ANTIVIRALS, GENERAL
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	BETA-ADRENERGIC BLOCKING AGENTS
DIGITALIS GLYCOSIDES	BETA-ADRENERGIC BLOCKING AGENTS
DIGITALIS GLYCOSIDES	HYPOTENSIVES,SYMPATHOLYTIC
	HYPOTENSIVES, ANGIOTENSIN RECEPTOR
DIGITALIS GLYCOSIDES	ANTAGONIST
DIGITALIS GLYCOSIDES	POTASSIUM SPARING DIURETICS
/	ALPHA/BETA-ADRENERGIC BLOCKING
CALCIUM CHANNEL BLOCKING AGENTS	AGENTS
HYPOGLYCEMICS, INSULIN-RELEASE	SEROTONIN-NOREPINEPHRINE
STIMULANT TYPE	REUPTAKE-INHIB (SNRIS)
HYPOGLYCEMICS, INSULIN-RELEASE	_ (3)
STIMULANT TYPE	PLATELET AGGREGATION INHIBITORS
HYPOGLYCEMICS, ALPHA-GLUCOSIDASE	HYPOGLYCEMICS, INSULIN-RESPONSE
INHIB TYPE (N-S)	ENHANCER (N-S)
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APPENDIX III. DRUG INTERACTION CONFLICTS

DRUG CLASS	DRUG CLASS
HYPOTENSIVES, ACE INHIBITORS	POTASSIUM SPARING DIURETICS
LIPOTROPICS	ANTIVIRALS, GENERAL
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	PLATELET AGGREGATION INHIBITORS
GLUCOCORTICOIDS	ANTIFUNGAL AGENTS
ALPHA-ADRENERGIC BLOCKING AGENTS	BETA-ADRENERGIC BLOCKING AGENTS
THIAZIDE AND RELATED DIURETICS	LOOP DIURETICS
ACE INHIBITOR/CALCIUM CHANNEL	POTASSIUM SPARING DIURETICS IN
BLOCKER COMBINATION	COMBINATION
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	ANTIVIRALS, GENERAL
HYPOGLYCEMICS, INSULIN-RESPONSE	TRICYCLIC ANTIDEPRESSANTS & REL.
ENHANCER (N-S)	NON-SEL. RU-INHIB
ORAL ANTICOAGULANTS, COUMARIN TYPE	ABSORBABLE SULFONAMIDES
GLUCOCORTICOIDS	ANTIFUNGAL ANTIBIOTICS
CHOLINESTERASE INHIBITORS	BETA-ADRENERGIC BLOCKING AGENTS
INSULINS	ORAL ANTICOAGULANTS,COUMARIN TYPE
HYPOGLYCEMICS, INSULIN-RELEASE	ALPHA/BETA-ADRENERGIC BLOCKING
STIMULANT TYPE	AGENTS
TRICYCLIC ANTIDEPRESSANTS & REL.	
NON-SEL. RU-INHIB	PLATELET AGGREGATION INHIBITORS
POTASSIUM SPARING DIURETICS IN	
COMBINATION	LOOP DIURETICS
HYPOGLYCEMICS, INSULIN-RESPONSE	
ENHANCER (N-S)	QUINOLONES
ANTIARRHYTHMICS	LIPOTROPICS
	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,&
SKELETAL MUSCLE RELAXANTS	SEROTONIN ANTAG

DRUG CLASS	DISEASE CONFLICT
GLUCOCORTICOIDS	ANXIETY STATE UNSPEC
ANTI-NARCOLEPSY/ANTI-HYPERKINESIS,	
STIMULANT-TYPE	UNS HYPERTENSION
ANALGESICS,NARCOTICS	CHR HEPATITIS C WOCOMA
LOOP DIURETICS	AC/UNS HEPATITIS C WOCOMA
BETA-ADRENERGIC AGENTS	PRIMARY PULMONARY HYPERTENSION
ANALGESICS,NARCOTICS	CIRRHOSIS LIVER WO ALCOHOL
CALCIUM CHANNEL BLOCKING AGENTS	SYNCOPE/COLLAPSE
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	SYNCOPE/COLLAPSE
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	CHR HEPATITIS C WOCOMA
BETA-ADRÈNERGÍC BLOCKING AGENTS	DIABETES RENAL MANIF TYPE II
LOOP DIURETICS	DIABETES RENAL MANIF TYPE II
GLUCOCORTICOIDS	DEPRESSIVE TYPE PSYCHOSIS
GLUCOCORTICOIDS	MAJ DEPRESS DIS SGL EPI MODERATE
ANTIHISTAMINES	UNS AFFECTIVE PSYCHOSIS
ANTIHISTAMINES	GRAND MALY WO INTRACT EPILEPSY
BETA-ADRENERGICS AND	
GLUCOCORTICOIDS COMBINATION	BENIGN HYPERTENSION
NSAIDS, CYCLOOXYGENASE INHIBITOR -	
TYPE	HYPERTENSIVE HEART DIS UNSPEC
BETA-ADRENERGIC BLOCKING AGENTS	UNS HEART FAILURE
INSULINS	CIRRHOSIS LIVER WO ALCOHOL
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	OTH CHRONIC NONALCOHOLIC LIVER DIS
ANTICONVULSANTS	CHRONIC RENAL FAILURE
DIGITALIS GLYCOSIDES	SYNCOPE/COLLAPSE
ALPHA/BETA-ADRENERGIC BLOCKING	
AGENTS	OTH PRIMARY CARDIOMYOPATHIES
INSULINS	DIABETES RENAL MANIF TYPE II
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	CHRONIC RENAL FAILURE
QUINOLONÈS	CHRONIC RENAL FAILURE
HYPOTENSIVES, ACE INHIBITORS	SYNCOPE/COLLAPSE
ORAL ANTICOAGULANTS, COUMARIN TYPE	OTH PRIMARY CARDIOMYOPATHIES
HYPOTENSIVES, SYMPATHOLYTIC	DIABETES UNCOMPL TYPE II
BETA-ADRENERGIC AGENTS	BENIGN HYPERTENSION
ANALGESICS,NARCOTICS	HEPATITIS B WO COMA AC/UNS WO DELTA
ANALGESICS, NARCOTICS	CHR HEPATITIS C W COMA
POTASSIUM SPARING DIURETICS	AC/UNS HEPATITIS C WOCOMA
ANTICONVULSANTS	CHR HEPATITIS C WOCOMA
HYPOTENSIVES,SYMPATHOLYTIC	DIABETES UNCOMP TYPE II UNCONTRD
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	
ANTAGONIST	DIABETES RENAL MANIF TYPE II
HYPOTENSIVES, ACE INHIBITORS	DIABETES RENAL MANIF TYPE I
THIAZIDE AND RELATED DIURETICS	DIABETES RENAL MANIF TYPE I
QUINOLONES	DIABETES RENAL MANIF TYPE I
INSULINS	DIABETES RENAL MANIF TYPE II UNC
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	
ANTAGONIST	DIABETES EYE MANIF TYPE II
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	
ANTAGONIST	DIABETES NEURO MANIF TYPE II
	ADDENIDIA IV. DDITO DIGEAGE CONELICTO

DRUG CLASS	DISEASE CONFLICT
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES NEUR MANIF TYPE II UNCN
ANTI-ANXIETY DRUGS	ACUTE DELIRIUM
ANTI-MANIA DRUGS	BIPOLAR AFFECT DIS DEPRESS UNS
ANTI-MANIA DRUGS	UNS MANIC DEPRESSIVE PSYCHOSIS
SEDATIVE-HYPNOTICS, NON-BARBITURATE	UNS AFFECTIVE PSYCHOSIS
SEROTONIN SPECIFIC REUPTAKE	01107111201112110110010
INHIBITOR (SSRIS)	UNS AFFECTIVE PSYCHOSIS
ANTICONVULSANTS	UNS AFFECTIVE PSYCHOSIS
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	OTHER AFFECTIVE PSYCHOSES
GLUCOCORTICOIDS	NEUROTIC DEPRESSION
GLUCOCORTICOIDS	ADJUST REAC BRIEF DEPRESSIVE
GLUCOCORTICOIDS	PETIT MAL WO INTRACT EPILEPSY
ANTIHISTAMINES	PETIT MAL WO INTRACT EPILEPSY
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	GRAND MALY WO INTRACT EPILEPSY
GLUCOCORTICOIÓS	GRAND MALY WO INTRACT EPILEPSY
LOOP DIURETICS	UNS EPILEPSY WO INTRACT EPILEPSY
NSAIDS, CYCLOOXYGENASE INHIBITOR -	
TYPE	MALIGNANT HYPERTENSION
BETA-ADRENERGIC BLOCKING AGENTS	HYPERTEN HEART DIS W CHF
INSULINS	RENAL HYPERT UNSPEC/FAILURE
SEDATIVE-HYPNOTICS,NON-BARBITURATE	RENAL HYPERT UNSPEC/FAILURE
ANTICONVULSANTS	RENAL HYPERT UNSPEC/FAILURE
LOOP DIURETICS	RENAL HYPERT UNSPEC/FAILURE
BETA-ADRENERGIC AGENTS	OTH PRIMARY CARDIOMYOPATHIES
ALPHA/BETA-ADRENERGIC BLOCKING	
AGENTS	CONGESTIVE HEART FAILURE
DIGITALIS GLYCOSIDES	LEFT HEART FAILURE
INSULINS	LEFT HEART FAILURE
ORAL ANTICOAGULANTS, COUMARIN TYPE	LEFT HEART FAILURE
BETA-ADRENERGIC AGENTS	CARDIOMEGALY
SEDATIVE-HYPNOTICS,NON-BARBITURATE	OBSTRUCT CHRON BRONCHITIS W EXAC
BETA-ADRENERGIC BLOCKING AGENTS	OTH EMPHYSEMA
ANALGESIC/ANTIPYRETICS,NON-	
SALICYLATE	UNS ASTHMA WOSTATUS ASTHMATICUS
POTASSIUM SPARING DIURETICS	ALCOHOLIC CIRRHOSIS LIVER
ANALGESICS, NARCOTICS	BILIARY CIRRHOSIS
GLUCOCORTICOIDS	BILIARY CIRRHOSIS
ANTI-ANXIETY DRUGS	OTH CHRONIC NONALCOHOLIC LIVER DIS
LIPOTROPICS	OTH CHRONIC NONALCOHOLIC LIVER DIS
ANALGESICS,NARCOTICS	OTH SEQUELAE CHRONIC LIVER DISEASE
ANALGESICS,NARCOTICS	UNS HEPATITIS
LIPOTROPICS	UNS HEPATITIS
NSAIDS, CYCLOOXYGENASE INHIBITOR -	
TYPE	UNS HEPATITIS
CALCIUM CHANNEL BLOCKING AGENTS	OTHER DISORDERS LIVER
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	
ANTAGONIST	UNS DISORDER LIVER
BETA-ADRENERGIC BLOCKING AGENTS	UNS DISORDER LIVER
GLUCOCORTICOIDS	UNS DISORDER LIVER
LOOP DIURETICS	UNS DISORDER LIVER
HYPOTENSIVES, ACE INHIBITORS	UNS ACUTE RENAL FAILURE

DRUG CLASS	DISEASE CONFLICT
POTASSIUM SPARING DIURETICS IN	
COMBINATION	UNS ACUTE RENAL FAILURE
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	
SULFONYLUREAS)	CHRONIC RENAL FAILURE
SEDATIVE-HYPNOTICS, NON-BARBITURATE	CHRONIC RENAL FAILURE
ANALGESIC/ANTIPYRETICS,NON-	
SALICYLATE	CHRONIC RENAL FAILURE
DIGITALIS GLYCOSIDES	UNS RENAL FAILURE
HYPOTENSIVES, ACE INHIBITORS	UNS RENAL FAILURE
SEDATIVE-HYPNOTICS, NON-BARBITURATE	SYNCOPE/COLLAPSE
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	SYNCOPE/COLLAPSE
ANTIPSYCHOTICS, ATYPICAL, DOPAMINE, &	
SEROTONIN ANTAG	SYNCOPE/COLLAPSE
INSULINS	KIDNEY REPLACED BY TRANSPLANT
INSULINS	RENAL DIALYSIS STATUS
ANALGESICS,NARCOTICS	RENAL DIALYSIS STATUS
NSAIDS, CYCLOOXYGENASE INHIBITOR -	THE TWILE BUT LET GIVE O THE TOTAL OF THE TO
TYPE	BENIGN HYPERTENSION
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES UNCOMPL TYPE I
NSAIDS, CYCLOOXYGENASE INHIBITOR -	DIABETES SINGSWIFE FITE ET
TYPE	UNS HYPERTENSION
GLUCOCORTICOIDS	DEPRESSIVE DISORDER NEC
BETA-ADRENERGIC BLOCKING AGENTS	UNS ASTHMA WOSTATUS ASTHMATICUS
LOOP DIURETICS	CIRRHOSIS LIVER WO ALCOHOL
ANALGESICS, NARCOTICS	UNS RENAL FAILURE
HYPOTENSIVES, ACE INHIBITORS	DIABETES RENAL MANIF TYPE II
LEUKOTRIENE RECEPTOR ANTAGONISTS	BENIGN HYPERTENSION
NSAIDS, CYCLOOXYGENASE INHIBITOR -	CONCECTIVE LIEADT FAILLIDE
TYPE	CONGESTIVE HEART FAILURE
HYPOTENSIVES, ACE INHIBITORS	CHRONIC RENAL FAILURE
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	DIADETEC LINCOMPL TVDE II
ANTAGONIST	DIABETES UNCOMPL TYPE II
HYPOGLYCEMICS, INSULIN-RELEASE	CONCECTIVE LIEADT FAILLIDE
STIMULANT TYPE	CONGESTIVE HEART FAILURE
SEROTONIN SPECIFIC REUPTAKE	CONCECTIVE LIEADT FAILLIDE
INHIBITOR (SSRIS)	CONGESTIVE HEART FAILURE
BETA-ADRENERGIC AGENTS	UNS HYPERTENSION
HYPOGLYCEMICS, INSULIN-RESPONSE	CONCECTIVE HEADT FAILURE
ENHANCER (N-S)	CONGESTIVE HEART FAILURE
BETA-ADRENERGIC BLOCKING AGENTS	CHRONIC RENAL FAILURE
LOOP DIURETICS	CHRONIC RENAL FAILURE
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	DIADETEC UNICOMPLETICS
ANTAGONIST	DIABETES UNCOMPL TYPE I
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES UNCOMP TYPE II UNCONTRD
HYPOTENSIVES,MISCELLANEOUS	DIABETES UNCOMPL TYPE II
ALPHA/BETA-ADRENERGIC BLOCKING	DIADETES UNICOMPLETES
AGENTS	DIABETES UNCOMPL TYPE II
ALPHA/BETA-ADRENERGIC BLOCKING	
AGENTS	DIABETES UNCOMPL TYPE I
HYPOTENSIVES, ANGIOTENSIN RECEPTOR	
ANTAGONIST	DIABETES UNCOMP TYPE II UNCONTRD
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES NEURO MANIF TYPE I

DRUG CLASS	DISEASE CONFLICT
GLUCOCORTICOIDS	PANIC DISORDER
LEUKOTRIENE RECEPTOR ANTAGONISTS	UNS HYPERTENSION
NSAIDS, CYCLOOXYGENASE INHIBITOR -	
TYPE	BENIGN HYPERTEN HEART DIS UNSPEC
BETA-ADRENERGIC AGENTS	HYPERTEN HEART DIS W CHF
DIGITALIS GLYCOSIDES	OTH PRIMARY CARDIOMYOPATHIES
LEUKOTRIENE RECEPTOR ANTAGONISTS	CONGESTIVE HEART FAILURE
SEROTONIN SPECIFIC REUPTAKE	
INHIBITOR (SSRIS)	UNS CARDIOVASCULAR DISEASE
CALCIUM CHANNEL BLOCKING AGENTS	UNS HEPATITIS
ANALGESICS,NARCOTICS	UNS DISORDER LIVER
ANALGESICS,NARCOTICS	UNS ACUTE RENAL FAILURE
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	CHRONIC RENAL FAILURE
HYPOGLYCEMICS, INSULIN-RESPONSE	
ENHANCER (N-S)	CHRONIC RENAL FAILURE
ANALGESICS,NARCOTICS	CHRONIC RENAL FAILURE
INSULINS	UNS RENAL FAILURE
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	UNS RENAL FAILURE
INSULINS	SYNCOPE/COLLAPSE
BETA-ADRENERGIC BLOCKING AGENTS	KIDNEY REPLACED BY TRANSPLANT
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES UNCOMPL TYPE II
ORAL ANTICOAGULANTS, COUMARIN TYPE	CONGESTIVE HEART FAILURE
BETA-ADRENERGIC AGENTS	CONGESTIVE HEART FAILURE
INSULINS	CHRONIC RENAL FAILURE
DIGITALIS GLYCOSIDES	CONGESTIVE HEART FAILURE
NSAIDS, CYCLOOXYGENASE INHIBITOR -	
TYPE	VOLUME DEPLETION DISORDER
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	OTH PRIMARY CARDIOMYOPATHIES
BETA-ADRENERGIC BLOCKING AGENTS	SYNCOPE/COLLAPSE
SEDATIVE-HYPNOTICS, NON-BARBITURATE	AC/UNS HEPATITIS C WOCOMA
ANALGESICS,NARCOTICS	AC/UNS HEPATITIS C WOCOMA
HYPOGLYCEMICS, INSULIN-RELEASE	
STIMULANT TYPE	DIABETES RENAL MANIF TYPE II
INSULINS	DIABETES RENAL MANIF TYPE I
DIGITALIS GLYCOSIDES	UNS HEART FAILURE
BETA-ADRENERGIC BLOCKING AGENTS	OBSTRUCT CHRON BRONCHITIS W EXAC
ANALGESIC/ANTIPYRETICS, SALICYLATES	UNS ASTHMA WOSTATUS ASTHMATICUS
SEDATIVE-HYPNOTICS, NON-BARBITURATE	CHRONIC AIRWAY OBSTRUCTION NEC
LOOP DIURETICS	UNS RENAL FAILURE
VASODILATORS,CORONARY	SYNCOPE/COLLAPSE
BETA-ADRENERGIC BLOCKING AGENTS	CHRONIC AIRWAY OBSTRUCTION NEC
BETA-ADRENERGIC BLOCKING AGENTS	OTH PRIMARY CARDIOMYOPATHIES
TRICYCLIC ANTIDEPRESSANTS & REL.	
NON-SEL. RU-INHIB	CONGESTIVE HEART FAILURE
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	-
SULFONYLUREAS)	DIABETES RENAL MANIF TYPE II
INSULINS	OTH PRIMARY CARDIOMYOPATHIES
INSULINS	CONGESTIVE HEART FAILURE
HYPOGLYCEMICS, BIGUANIDE TYPE (NON-	-
SULFONYLUREAS)	CONGESTIVE HEART FAILURE
'	ADDENDIN IV. DDIJC DICE ACE CONELICEC

DRUG CLASS	DISEASE CONFLICT
PLATELET AGGREGATION INHIBITORS	CONGESTIVE HEART FAILURE
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES EYE MANIF TYPE II
POTASSIUM SPARING DIURETICS	CIRRHOSIS LIVER WO ALCOHOL
BETA-ADRENERGIC BLOCKING AGENTS	CONGESTIVE HEART FAILURE
BETA-ADRENERGIC BLOCKING AGENTS	DIABETES NEURO MANIF TYPE II
GLUCOCORTICOIDS	ANXIETY STATE UNSPEC

Definitions and Examples Related to Transport Accidents

Transport Accident (ES800-E848)

Any accident involving device designed primarily for, or being used at the time primarily for conveying persons or goods from one place to another.

Includes: accidents involving: aircraft and spacecraft (E840-E845); watercraft (E830-E838); motor vehicle (E810-E825); railway (E800-E807); other road vehicles (E826-E829)

Motor Vehicle Accident (ES800-E848)

A transport accident involving a motor vehicle. It is defined as a motor vehicle traffic accident or as a motor vehicle nontraffic accident according to whether the accident occurs on a public highway or elsewhere.

Excludes: injury or damage due to cataclysm injury or damage while a motor vehicle, not under its own power; is being loaded on, or unloaded from, another conveyance.

Motor Vehicle Traffic Accident

Any motor vehicle accident occurring on a public highway (i.e., originating, terminating, or involving a vehicle partially on the highway). A motor vehicle accident is assumed to have occurred on the highway unless another place is specified, except in the case of accidents involving only off-read motor vehicles which are classified as nontraffic accidents unless the contrary is stated.

Motor Vehicle Nontraffic Accident

Any motor vehicle accident which occurs entirely in any place other than a public highway.

Public Highway (Trafficway) or Street

The entire width between property lines (or other boundary lines) of every way or place, of which any part is open to the use of the public for purposes of vehicular traffic as a matter of right or custom. A roadway is that party of the public highway designed, improved, or ordinarily used, for vehicular travel.

Includes: approaches (public) to: docks, public building, station

Excludes:

driveway (private); parking lot; ramp

roads in: airfield; farm; industrial premises; mine; private grounds; guarry.

Motor Vehicle

Any mechanically or electrically powered device not operated on rails, upon which any person or property may be transported or drawn upon a highway. Any object such as a trailer, coaster, sled, or wagon being towed by a motor vehicle is considered a part of the motor vehicle.

Includes:

automobile (any type) bus; construction machinery, farm and industrial machinery, steam roller, tractor, army tank, highway grader, or similar vehicle on wheels or treads, while in transport under own power; fire engine (motorized): motorcycle; motorized bicycle (moped) or scoter; trolley bus not operating on rails; truck; van.

Excludes:

devices used solely to move persons or material within the confines of a building and its premises, such as: building elevator; coal car in mine; electric baggage or mail truck used solely within a railroad station; electric truck used solely within an industrial plant; moving overhead crane.

Motorcycle

A two-wheeled motor vehicle having one or two riding saddles and sometimes having a third when for the support of a sidecar. The sidecar is considered part of the motorcycle.

Includes: motorized: bicycle (moped); scooter; tricycle.

Off-Road Motor Vehicle

A motor vehicle of special design, to enable it to negotiate rough or soft terrain or snow. Examples of special design are high construction, special wheels and tires, drives by treads, or support on a cushion of air.

Includes:

all terrain vehicle (ATV); army tank; hovercraft, on land or swamp; snowmobile.

Driver

A driver of a motor vehicle is the occupant of the motor vehicle operating it or intending to operate it. A motorcyclist is the driver of a motorcycle. Other authorized occupants of a motor vehicle are passengers.

Other Road Vehicle

Any device, except a motor vehicle in, on, or by which any person or property may be transported on a highway.

Includes:

animal carrying a person or goods; animal-drawn vehicles; animal harnessed to conveyance; bicycle (pedal cycle); streetcar; tricycle (pedal).

Excludes:

pedestrian conveyance (definition (g))

Note:

For definitions of motor vehicle traffic accident, and related terms, see definitions (e) to (k).

Excludes: accidents involving motor vehicle and aircraft

The following fourth-digit subdivisions are for use with categories E810-E819 to identify the injured person:

.0 Driver of motor vehicle other than motorcycle

(See definition (1).

.1 Passenger in motor vehicle other than motorcycle

(See definition (1).

.2 Motorcyclist

See definition (1)

.3 Passenger on motorcycle

See definition (1).

.4 Occupant of streetcar

.5 Rider of animal; occupant of animal-drawn vehicle

.6 Pedal cyclist

See definition (p)

.7 Pedestrian

See definition (r)

.8 Other specified person

Occupant of vehicle other than above; Person in railway train involved in accident; Unauthorized rider of motor vehicle.

.9 Unspecified person

MOTOR VEHICLE TRAFFIC ACCIDENTS (E810-E819)

- Note: For definitions of motor vehicle traffic accident, and related terms, see definitions (e) to (k).
 - o Excludes: accidents involving motor vehicle and aircraft (E840.0-E845.9)
- The following fourth-digit subdivisions are for use with categories E810-E819 to identify the injured person:
 - .0 Driver of motor vehicle other than motorcycle

See definition (1)

.1 Passenger in motor vehicle other than motorcycle

See definition (1)

.2 Motorcyclist

See definition (1)

.3 Passenger on motorcycle

See definition (1)

- .4 Occupant of streetcar
- .5 Rider of animal; occupant of animal-drawn vehicle
- .6 Pedal cyclist

See definition (p)

.7 Pedestrian

See definition (r)

.8 Other specified person

Occupant of vehicle other than above

Person in railway train involved in accident

Unauthorized rider of motor vehicle

.9 Unspecified person

• E810 Motor vehicle traffic accident involving collision with train

- o Requires fourth digit. See beginning of section E800-E845 for codes and definitions.
- Excludes: motor vehicle collision with object set in motion by railway train (E815.0-E815.9)
 - railway train hit by object set in motion by motor vehicle (E818.0-E818.9)
- E811 Motor vehicle traffic accident involving re-entrant collision with another motor vehicle

Includes: collision between motor vehicle, which accidentally leaves the roadway then reenters the same roadway, or the opposite roadway on a divided highway, and another motor vehicle

Excludes: collision on the same roadway when none of the motor vehicles involved have left and re-entered the roadway (E812.0-E812.9)

• E812 Other motor vehicle traffic accident involving collision with motor vehicle

Includes: collision with another motor vehicle parked, stopped, stalled, disabled, or abandoned on the highway

motor vehicle collision NOS

Excludes: collision with object set in motion by another motor vehicle (E815.0-E815.9) re-entrant collision with another motor vehicle (E811.0-E811.9)

• E813 Motor vehicle traffic accident involving collision with other vehicle

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Includes: collision between motor vehicle, any kind, and:
            other road (nonmotor transport) vehicle, such as:
                    animal carrying a person
                    animal-drawn vehicle
                    pedal cycle
                    streetcar
    Excludes: collision with:
            object set in motion by nonmotor road vehicle (E815.0-E815.9)
            pedestrian (E814.0-E814.9)
            nonmotor road vehicle hit by object set in motion by motor vehicle (E818.0-E818.9)
E814 Motor vehicle traffic accident involving collision with pedestrian
    Includes: collision between motor vehicle, any kind, and pedestrian
            pedestrian dragged, hit, or run over by motor vehicle, any kind
    Excludes: pedestrian hit by object set in motion by motor vehicle (E818.0-E818.9)
E815 Other motor vehicle traffic accident involving collision on the highway
    Includes: collision (due to loss of control) (on highway) between motor vehicle, any kind,
        and.
            abutment (bridge) (overpass)
            animal (herded) (unattended)
            fallen stone, traffic sign, tree, utility pole
            guard rail or boundary fence
            inter-highway divider
            landslide (not moving)
            object set in motion by railway train or road vehicle (motor) (nonmotor)
            object thrown in front of motor vehicle
            safety island
            temporary traffic sign or marker
            wall of cut made for road
            other object, fixed, movable, or moving
    Excludes: collision with:
            any object off the highway (resulting from loss of control) (E816.0-E816.9)
            any object which normally would have been off the highway and is not stated to have
                been on it (E816.0-E816.9)
            motor vehicle parked, stopped, stalled, disabled, or abandoned on highway (E812.0-
                E812.9)
            moving landslide (E909.2)
            motor vehicle hit by object:
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• E816 Motor vehicle traffic accident due to loss of control, without collision on the highway Includes: motor vehicle:

thrown into or on vehicle (E818.0-E818.9)

failing to make curve and:

E818.9)

set in motion by railway train or road vehicle (motor) (nonmotor) (E818.0-

colliding with object off the highway

overturning

stopping abruptly off the highway

going out of control (due to)

blowout and:

colliding with object off the highway

overturning

stopping abruptly off the highway

burst tire and:

colliding with object off the highway

overturning

stopping abruptly off the highway

driver falling asleep and:

colliding with object off the highway

overturning

stopping abruptly off the highway

driver inattention and:

colliding with object off the highway

overturning

stopping abruptly off the highway

excessive speed and:

colliding with object off the highway

overturning

stopping abruptly off the highway

failure of mechanical part and:

colliding with object off the highway

overturning

stopping abruptly off the highway

Excludes: collision on highway following loss of control (E810.0-E815.9)

loss of control of motor vehicle following collision on the highway (E810.0-E815.9)

• E817 Noncollision motor vehicle traffic accident while boarding or alighting

Includes: fall down stairs of motor bus while boarding or alighting

fall from car in street while boarding or alighting

injured by moving part of the vehicle while boarding or alighting

trapped by door of motor bus boarding or alighting while boarding or alighting

• E818 Other noncollision motor vehicle traffic accident

Includes: accidental poisoning from exhaust gas generated by motor vehicle while in motion

breakage of any part of motor vehicle while in motion

explosion of any part of motor vehicle while in motion

fall, jump, or being accidentally pushed from motor vehicle while in motion

fire starting in motor vehicle while in motion

hit by object thrown into or on motor vehicle while in motion

injured by being thrown against some part of, or object in motor vehicle while in motion

Appendix V. ICD-9-CM Codes for Motor Vehicle Accidents

injury from moving part of motor vehicle while in motion

object falling in or on motor vehicle while in motion

object thrown on motor vehicle while in motion

collision of railway train or road vehicle except motor vehicle, with object set in motion by motor vehicle

motor vehicle hit by object set in motion by railway train or road vehicle (motor) (nonmotor)

pedestrian, railway train, or road vehicle (motor) (nonmotor) hit by object set in motion by motor vehicle

Excludes: collision between motor vehicle and:

object set in motion by railway train or road vehicle (motor) (nonmotor) (E815.0-E815.9)

object thrown towards the motor vehicle (E815.0-E815.9)

person overcome by carbon monoxide generated by stationary motor vehicle off the roadway with motor running (E868.2)

• E819 Motor vehicle traffic accident of unspecified nature

Includes: motor vehicle traffic accident NOS traffic accident NOS

MOTOR VEHICLE NONTRAFFIC ACCIDENTS (E820-E825)

- Note: For definitions of motor vehicle nontraffic accident and related terms see definition (a) to (k).
 - o Includes: accidents involving motor vehicles being used in recreational or sporting activities off the highway
 - collision and noncollision motor vehicle accidents occurring entirely off the highway
 - Excludes: accidents involving motor vehicle and:
 - aircraft (E840.0-E845.9)
 - watercraft (E830.0-E838.9)
 - accidents, not on the public highway, involving agricultural and construction machinery but not involving another motor vehicle (E919.0, E919.2, E919.7)
- The following fourth-digit subdivisions are for use with categories E820-E825 to identify the injured person:
 - o .0 Driver of motor vehicle other than motorcycle
 - See definition (1)
 - o .1 Passenger in motor vehicle other than motorcycle
 - See definition (1)
 - 2 Motorcyclist
 - See definition (1)
 - o .3 Passenger on motorcycle
 - See definition (1)
 - o .4 Occupant of streetcar
 - o .5 Rider of animal; occupant of animal-drawn vehicle
 - .6 Pedal cyclist
 - See definition (p)

- o .7 Pedestrian
 - See definition (r)
- o .8 Other specified person
 - Occupant of vehicle other than above
 - Person on railway train involved in accident
 - Unauthorized rider of motor vehicle
- 9 Unspecified person

• E820 Nontraffic accident involving motor-driven snow vehicle

Includes: breakage of part of motor-driven snow vehicle (not on public highway)
fall from motor-driven snow vehicle (not on public highway)
hit by motor-driven snow vehicle (not on public highway)
overturning of motor-driven snow vehicle (not on public highway)
run over or dragged by motor-driven snow vehicle (not on public highway)
collision of motor-driven snow vehicle with:
animal (being ridden) (-drawn vehicle)
another off-road motor vehicle
other motor vehicle, not on public highway
railway train
other object, fixed or movable

injury caused by rough landing of motor-driven snow vehicle (after leaving ground on rough terrain)

Excludes: accident on the public highway involving motor driven snow vehicle (E810.0-E819.9)

• E821 Nontraffic accident involving other off-road motor vehicle

Includes: breakage of part of off-road motor vehicle, except snow vehicle (not on public highway)

fall from off-road motor vehicle, except snow vehicle (not on public highway) hit by off-road motor vehicle, except snow vehicle (not on public highway) overturning of off-road motor vehicle, except snow vehicle (not on public highway) run over or dragged by off-road motor vehicle, except snow vehicle (not on public highway)

thrown against some part of or object in off-road motor vehicle, except snow vehicle (not on public highway)

collision with:

animal (being ridden) (-drawn vehicle) another off-road motor vehicle, except snow vehicle other motor vehicle, not on public highway other object, fixed or movable

Excludes: accident on public highway involving off-road motor vehicle (E810.0-E819.9) collision between motor driven snow vehicle and other off-road motor vehicle (E820.0-E820.9)

hovercraft accident on water (E830.0-E838.9)

E822 Other motor vehicle nontraffic accident involving collision with moving object

Includes: collision, not on public highway, between motor vehicle, except off-road motor vehicle and:

animal

nonmotor vehicle

other motor vehicle, except off-road motor vehicle

pedestrian

railway train

other moving object

Excludes: collision with:

motor-driven snow vehicle (E820.0-E820.9) other off-road motor vehicle (E821.0-E821.9)

• E823 Other motor vehicle nontraffic accident involving collision with stationary object

Includes: collision, not on public highway, between motor vehicle, except off-road motor vehicle, and any object, fixed or movable, but not in motion

• E824 Other motor vehicle nontraffic accident while boarding and alighting

Includes: fall while boarding or alighting from motor vehicle except off-road motor vehicle, not on public highway

injury from moving part of motor vehicle while boarding or alighting from motor vehicle except off-road motor vehicle, not on public highway

trapped by door of motor vehicle while boarding or alighting from motor vehicle except off-road motor vehicle, not on public highway

• E825 Other motor vehicle nontraffic accident of other and unspecified nature

Includes: accidental poisoning from carbon monoxide generated by motor vehicle while in motion, not on public highway

breakage of any part of motor vehicle while in motion, not on public highway explosion of any part of motor vehicle while in motion, not on public highway fall, jump, or being accidentally pushed from motor vehicle while in motion, not on

public highway

fire starting in motor vehicle while in motion, not on public highway

hit by object thrown into, towards, or on motor vehicle while in motion, not on public highway

injured by being thrown against some part of, or object in motor vehicle while in motion, not on public highway

injury from moving part of motor vehicle while in motion, not on public highway object falling in or on motor vehicle while in motion, not on public highway motor vehicle nontraffic accident NOS

Excludes: fall from or in stationary motor vehicle (E884.9, E885)

overcome by carbon monoxide or exhaust gas generated by stationary motor vehicle off the roadway with motor running (E868.2)

struck by falling object from or in stationary motor vehicle (E916)

• E826 Pedal cycle accident

Includes: breakage of any part of pedal cycle

collision between pedal cycle and:
 animal (being ridden) (herded) (unattended)
 another pedal cycle
 nonmotor road vehicle, any
 pedestrian
 other object, fixed, movable, or moving, not set in motion by motor vehicle,
 railway train, or aircraft
 entanglement in wheel of pedal cycle
 fall from pedal cycle
 hit by object falling or thrown on the pedal cycle
 pedal cycle accident NOS
 pedal cycle overturned

• E827 Animal-drawn vehicle accident

Includes: breakage of any part of vehicle

collision between animal-drawn vehicle and:

animal (being ridden) (herded) (unattended)

nonmotor road vehicle, except pedal cycle

pedestrian, pedestrian conveyance, or pedestrian vehicle

other object, fixed, movable, or moving, not set in motion by motor vehicle,

railway train, or aircraft

fall from animal-drawn vehicle

knocked down by animal-drawn vehicle

overturning of animal-drawn vehicle

run over by animal-drawn vehicle

thrown from animal-drawn vehicle

Excludes: collision of animal-drawn vehicle with pedal cycle (E826.0-E826.9)

• E828 Accident involving animal being ridden

Includes: collision between animal being ridden and:

another animal

nonmotor road vehicle, except pedal cycle, and animal-drawn vehicle

pedestrian, pedestrian conveyance, or pedestrian vehicle

other object, fixed, movable, or moving, not set in motion by motor vehicle, railway

train, or aircraft

fall from animal being ridden

knocked down by animal being ridden

thrown from animal being ridden

trampled by animal being ridden

ridden animal stumbled and fell

Excludes: collision of animal being ridden with:

animal-drawn vehicle (E827.0-E827.9)

pedal cycle (E826.0-E826.9)

• E829 Other road vehicle accidents

Includes: accident while boarding or alighting from

Appendix V. ICD-9-CM Codes for Motor Vehicle Accidents

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streetcar
        nonmotor road vehicle not classifiable to E826-E828
        blow from object in
                streetcar
                nonmotor road vehicle not classifiable to E826-E828
        breakage of any part of
               streetcar
                nonmotor road vehicle not classifiable to E826-E828
        caught in door of
               streetcar
                nonmotor road vehicle not classifiable to E826-E828
        derailment of
                streetcar
               nonmotor road vehicle not classifiable to E826-E828
        fall in, on, or from
                streetcar
                nonmotor road vehicle not classifiable to E826-E828
        fire in
                streetcar
                nonmotor road vehicle not classifiable to E826-E828
        collision between streetcar or nonmotor road vehicle, except as in E826-E828, and:
                animal (not being ridden)
                another nonmotor road vehicle not classifiable to E826-E828
                pedestrian
                other object, fixed, movable, or moving, not set in motion by motor vehicle,
                    railway train, or aircraft
        nonmotor road vehicle accident NOS
        streetcar accident NOS
Excludes: collision with:
        animal being ridden (E828.0-E828.9)
        animal-drawn vehicle (E827.0-E827.9)
        pedal cycle (E826.0-E826.9)
```

• E830 Accident to watercraft causing submersion

Requires fourth digit. See beginning of section E800-E845 for codes and definitions.

Includes: submersion and drowning due to:

boat overturning boat submerging falling or jumping from burning ship falling or jumping from crushed watercraft ship sinking other accident to watercraft

• E831 Accident to watercraft causing other injury

Includes: any injury, except submersion and drowning, as a result of an accident to watercraft

burned while ship on fire
crushed between ships in collision
crushed by lifeboat after abandoning ship
fall due to collision or other accident to watercraft
hit by falling object due to accident to watercraft
injured in watercraft accident involving collision
struck by boat or part thereof after fall or jump from damaged boat

Excludes: burns from localized fire or explosion on board ship (E837.0-E837.9)

• E832 Other accidental submersion or drowning in water transport accident

Requires fourth digit. See beginning of section E800-E845 for codes and definitions. **Includes:** submersion or drowning as a result of an accident other than accident to the watercraft, such as:

fall:

from gangplank from ship overboard

thrown overboard by motion of ship

washed overboard

Excludes: submersion or drowning of swimmer or diver who voluntarily jumps from boat not involved in an accident (E910.0-E910.9)

Table 1a. Number of Physician Visits of MVA Patients by Age and Gender

		Gend				
	Mal	Le	Fema	ale	Both	
	N	PCTN	N	PCTN	N	PCTN
Age Group						
Under 50	202	72	201	75	403	74
50+	79	28	66	25	145	26
All Age	281	100	267	100	548	100

Table 1b. Number of Physician Visits MVA Patients by Age and Gender (Weighted)

		Geno				
	Male		Female		Both	
	N PCTN		N	N PCTN		PCTN
Age Group						
Under 50	6,073,420	73	5,969,219	73	12,042,639	73
50+	2,211,212	27	2,246,376	27	4,457,588	27
All Age	8,284,632	100	8,215,595	100	16,500,227	100

Table 2a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Medications

		Gender						
		Mal	Le	Fema	ale	Bot	h	
		N	PCTN	N	PCTN	N	PCTN	
Age Group Under 50	Number of Medications Recorded							
	0	100	50	111	55	211	52	
	1	48	24	38	19	86	21	
	2	26	13	35	17	61	15	
	3	18	9	10	5	28	7	
	4	6	3	3	1	9	2	
	5	2	1			2	0	
	6	2	1	4	2	6	1	
	All	202	100	201	100	403	100	
50+	Number of Medications Recorded							
	0	37	47	30	45	67	46	
	1	21	27	15	23	36	25	
	2	11	14	11	17	22	15	
	3	6	8	8	12	14	10	
	4			1	2	1	1	
	5	1	1			1	1	
	6	3	4	1	2	4	3	
	All	79	100	66	100	145	100	
All Age	Number of Medications Recorded							
	0	137	49	141	53	278	51	
	1	69	25	53	20	122	22	
	2	37	13	46	17	83	15	
	3	24	9	18	7	42	8	
	4	6	2	4	1	10	2	
	5	3	1			3	1	

Table 2a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Medications

		Gender					
		Male		Female		Bot	th
		N PCTN		N PCTN		N	PCTN
All Age	Number of Medications Recorded						
	6	5	2	5	2	10	2
	All	281	100	267	100	548	100

Table 2b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Medications (Weighted)

			Gend	ler			
		Male		Female		Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of Medications Recorded						
	0	2,841,274	47	3,079,362	52	5,920,636	49
	1	1,286,281	21	1,037,349	17	2,323,630	19
	2	998,445	16	1,125,928	19	2,124,373	18
	3	684,345	11	427,516	7	1,111,861	9
	4	157,643	3	119,860	2	277,503	2
	5	66,612	1			66,612	1
	6	38,820	1	179,204	3	218,024	2
	All	6,073,420	100	5,969,219	100	12,042,639	100
50+	Number of Medications Recorded						
	0	919,741	42	814,643	36	1,734,384	39
	1	559,257	25	575,021	26	1,134,278	25
	2	236,868	11	425,836	19	662,704	15
	3	193,142	9	264,325	12	457,467	10
	4			120,767	5	120,767	3
	5	59,983	3			59,983	1
	6	242,221	11	45,784	2	288,005	6
	All	2,211,212	100	2,246,376	100	4,457,588	100
All Age	Number of Medications Recorded						
	0	3,761,015	45	3,894,005	47	7,655,020	46
	1	1,845,538	22	1,612,370	20	3,457,908	21
	2	1,235,313	15	1,551,764	19	2,787,077	17
	3	877,487	11	691,841	8	1,569,328	10
	4	157,643	2	240,627	3	398,270	2
	5	126,595	2			126,595	1

Table 2b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Medications (Weighted)

			Gend				
		Male Female			Both		
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Medications Recorded						
	6	281,041	3	224,988	3	506,029	3
	All	8,284,632	100	8,215,595	100	16,500,227	100

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
Male		Antiarthritics	Ĭ		J	J		13	18
	Under 50							10	14
	Under 50	Antidepressants						7	10
		Analgesics, narcotic						6	8
		Analgesics, non-							
Male	Under 50	narcotic						6	8
Male	Under 50	Analgesics, narcotic	Antiarthritics					3	4
			Skeletal muscle						
Male	Under 50	Antiarthritics	hyperactivity					3	4
		Analgesics, non-							
Male	Under 50	narcotic	Antiarthritics					2	3
		Analgesics, non-							
Male	Under 50	narcotic	Antidepressants					2	3
			Skeletal muscle						
Male	Under 50	NSAID	hyperactivity					2	3
		Adrenal							
Male	Under 50	corticosteroids	Cephalosporins					1	1
		Alpha agonist/alpha			Antipsychotic/antimani				
Male	Under 50	blockers	Antidepressants	Antidepressants	cs			1	1
			Analgesics, non-						
Male		Analgesics, narcotic	narcotic	Antidepressants	NSAID			1	1
Male	Under 50	Analgesics, narcotic	Analgesics/general					1	1
			Anesthetics, local						
		Analgesics, narcotic	(injectable)	Topical steroids				1	1
		Analgesics, narcotic	Antianxiety agents	Antiarthritics				1	1
Male	Under 50	Analgesics, narcotic	Antianxiety agents	Anticonvulsants	Antidepressants			1	1
					Skeletal muscle				
Male	Under 50	Analgesics, narcotic	Antianxiety agents		hyperactivity			1	1
				Skeletal muscle					
Male	Under 50	Analgesics, narcotic	Antianxiety agents	hyperactivity				1	1
		Analgesics, narcotic	Antiarthritics	Anticonvulsants	Antidepressants	Disorders, acid/peptic	Vitamins/minerals	1	1
Male	Under 50	Analgesics, narcotic	NSAID					1	1
			Skeletal muscle						
Male	Under 50	Analgesics, narcotic	hyperactivity					1	1
		Analgesics, non-							
Male	Under 50		Antidepressants	Antidepressants				1	1
		Analgesics, non-	Skeletal muscle						
Male	Under 50	narcotic	hyperactivity					1	1

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
		A	D					١.	
Male		Antiarthritics	Disorders, acid/peptic					1	1
Male		Anticonvulsants						1	
Male		Anticonvulsants	Antidepressants					1	1
		Ocular anti-							
		infective/anti-							
Male		inflammatory						1	
Male		Unclassified						1	
	50+	Antiarthritics						5	
		Anticonvulsants						3	
		Antidepressants						3	
Male	50+	NSAID						3	10
			Skeletal muscle						
Male	50+	NSAID	hyperactivity					2	2 7
		Skeletal muscle							
Male	50+	hyperactivity						2	7
		,,	Adrenal	Analgesics, non-					
Male	50+	ACE inhibitors	corticosteroids	narcotic	Antiarrhythmic agents	Topical anti-infectives		1	3
		ACE inhibitors	Antiarthritics	Beta blockers	, , , , , , , , , , , , , , , , , , , ,			1	3
		Adrenal							
Male	50+	corticosteroids						1	3
							Repl/regs of	1	
		Alpha agonist/alpha					electrolytes/water		
Male		blockers	Antidiarrheals	Disorders, acid/peptic	Diuretics	Homeopathic products		1	3
	50+	Analgesics, narcotic	/ tritidia i modio	Biodiadio, adia/populo	Diarotico	riomoopatiio produoto	balarioo	1	·
IVIAIC	JU+	Analgesics, narcolic			Antihypertensive			+ '	- 3
Male	50+	Analgesics, narcotic	Antianxiety agents	Antidepressants	agents	Calcium metabolism	Thyroid/antithyroid	1	3
iviale	30 +	Analyesics, narcolic	Antianxiety agents	Antiuepressants	agents	Calcium metabolism	Skeletal muscle	+ '	3
Male	50+	Analgosias narastia	Antiarthritics	A ntiarthritian	Digardara agid/pantia	Hyperlipidemia		1	2
		Analgesics, narcotic Analgesics, narcotic	NSAID	Antiarthritics	Disorders, acid/peptic	пурепірійенна	hyperactivity	1	
Male		Analgesics, non-	NOAID					- 1	3
Mala		•						1	
Male		narcotic						1	3
		Analgesics, non-		A .: 1				١,	
Male		narcotic	Antidepressants	Antidepressants				1	3
		Analgesics, non-							_
Male		narcotic	NSAID					1	3
		Analgesics, non-	Skeletal muscle						
		narcotic	hyperactivity					1	Ū
		Antiarthritics						9	
Female	Under 50	Analgesics, narcotic						7	10

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	Ν	PCTN
	,		Skeletal muscle				Ŭ		
Female	Under 50	NSAID	hyperactivity					6	9
			1	Skeletal muscle					
Female	Under 50	Analgesics, narcotic	Antiarthritics	hyperactivity				5	7
	Under 50			,				5	7
			Skeletal muscle						
Female	Under 50	Antiarthritics	hyperactivity					4	6
		Skeletal muscle	,,,						
Female	Under 50	hyperactivity						4	6
		Analgesics, narcotic	Antiarthritics					3	4
			Skeletal muscle						
Female	Under 50	Analgesics, narcotic	hyperactivity					3	4
		Unclassified	1					3	4
		Adrenal							
Female	Under 50	corticosteroids						2	3
Female	Under 50	Antiarthritics	Disorders, acid/peptic					2	3
Female	Under 50	Anticonvulsants						2	3
		Adrenal	Analgesics, non-						
Female	Under 50	corticosteroids	narcotic					1	1
		Adrenal	Anesthetics, local						
Female	Under 50	corticosteroids	(injectable)					1	1
		Adrenal							
Female	Under 50	corticosteroids	Topical analgesics					1	1
		Alpha agonist/alpha		Anticoagulants/thromb			Relaxants/stimulants,		
Female	Under 50	blockers	Analgesics, narcotic	olytics	Antidepressants	Antidepressants	urinary tract	1	1
Female	Under 50	Analgesics, narcotic	Analgesics, narcotic	Analgesics, narcotic				1	1
							Skeletal muscle		
Female	Under 50	Analgesics, narcotic	Analgesics, narcotic	Antidepressants	Antihistamines	CNS, miscellaneous	hyperactivity	1	1
				Antiasthmatics/bronch	Calcium channel				
Female	Under 50	Analgesics, narcotic	Antianxiety agents	odilators	blockers	Disorders, acid/peptic	Disorders, acid/peptic	1	1
Female	Under 50	Analgesics, narcotic	NSAID					1	1
				Skeletal muscle					
Female	Under 50	Analgesics, narcotic	NSAID	hyperactivity				1	1
		Analgesics, non-							
Female	Under 50							1	1
		Analgesics, non-							
Female	Under 50		Antiarthritics					1	1
		Analgesics, non-	Skeletal muscle						
Female	Under 50	narcotic	hyperactivity					1	1

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	Ν	PCTN
Female	Under 50	Anticonvulsants	Antidepressants					1	1
Female	Under 50	Antidepressants						1	1
Female		Topical steroids						1	1
Female	50+	Analgesics, narcotic						4	
Female	50+	Antiarthritics						3	14
Female	50+	NSAID						3	14
Female	50+	Analgesics, narcotic	Antiarthritics					2	9
				Skeletal muscle					
Female	50+	Analgesics, narcotic	NSAID	hyperactivity				2	9
Female	50+	ACE inhibitors	Analgesics, narcotic	Antidepressants				1	5
		Adrenal							
Female	50+	corticosteroids	NSAID					1	5
					Skeletal muscle				
Female	50+	Analgesics, narcotic	Antianxiety agents	Antiarthritics	hyperactivity			1	5
		Analgesics, non-							
Female	50+	narcotic						1	5
		Analgesics, non-							
Female	50+	narcotic	NSAID					1	5
			Skeletal muscle						
Female	50+	NSAID	hyperactivity					1	5
		Ocular anti-							
		infective/anti-							
Female	50+	inflammatory						1	5
Female	50+	Topical steroids						1	5

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
		Antiarthritics						399,959	
Male	Under 50							322,255	14
		Analgesics, non-							
	Under 50							173,906	
Male	Under 50	Antidepressants						164,156	7
Male	Under 50	Analgesics, narcotic						128,470	6
	50	A l	Skeletal muscle					400.005	_
Male	Under 50	Analgesics, narcotic	hyperactivity					108,225	5
NA-1-	l la de a 50	Analgesics, non-	A ti -l t -					404.005	_
Male	Under 50	Analgesics, non-	Antidepressants Skeletal muscle					104,035	5
Male	Under 50		hyperactivity					93,513	4
iviale	Under 50	Analgesics, non-	пурегасцицу					93,513	4
Male	Under 50		Antidepressants	Antidepressants				91,252	4
iviale	Officer 50	Analgesics, non-	Antidepressants	Antidepressants				91,232	4
Male	Under 50		Antiarthritics					83,037	4
IVIGIO	Oridor do	Adrenal	7 ti itidi ti ilitioo					00,007	•
Male	Under 50	corticosteroids	Cephalosporins					63,189	3
			Skeletal muscle					00,100	
Male	Under 50	NSAID	hyperactivity					59,262	3
Male	Under 50	Analgesics, narcotic	Antiarthritics					58,560	3
				Disorders,	Skeletal muscle				
Male	Under 50	Analgesics, narcotic	Antianxiety agents	acid/peptic	hyperactivity			56,544	2
			Skeletal muscle						
Male	Under 50	Antiarthritics	hyperactivity					51,483	2
Male	Under 50	Analgesics, narcotic	NSAID					46,793	2
		A 1 1 1		A					
Male	Under 50	Analgesics, narcotic	Antianxiety agents	Antiarthritics				42,024	2
NA-1-	l la de 50	Analmasiaa maraatia	A malma sian /mama mal					40.054	
Male	Under 50	Analgesics, narcotic	Analgesics/general Anesthetics, local					40,954	2
Male	Lindor EO	Analgesics, narcotic	(injectable)	Topical steroids				37,719	2
iviaie	Unider 50	Analycolco, Halcolic	(iiijeciabie)	Skeletal muscle				31,119	2
Male	Linder 50	Analgesics, narcotic	Antianxiety agents	hyperactivity				31,758	1
		Anticonvulsants	Antianxiety agents	пурстаснуну				24,290	
iviaie	Under 50	Anticonvulsants				1		24,290	1

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
		Ocular anti-							
		infective/anti-							
Male	Under 50	inflammatory						13,496	1
			Analgesics, non-						
Male	Under 50	Analgesics, narcotic	narcotic	Antidepressants	NSAID			12,870	1
Male	Under 50	Analgesics, narcotic	Antianxiety agents	Anticonvulsants	Antidepressants			12,055	1
		Alpha agonist/alpha			Antipsychotic/antima				
Male	Under 50	blockers	Antidepressants	Antidepressants	nics			11,055	0
Male	Under 50	Anticonvulsants	Antidepressants					11,055	0
			Disorders,						
Male	Under 50	Antiarthritics	acid/peptic					9,398	0
						Disorders,			
Male	Under 50	Analgesics, narcotic	Antiarthritics	Anticonvulsants	Antidepressants	acid/peptic	Vitamins/minerals	7,512	0
Male	Under 50	Unclassified						3,842	0
Male	50+	Antiarthritics						148,489	15
					Disorders,		Skeletal muscle		
Male	50+	Analgesics, narcotic	Antiarthritics	Antiarthritics	acid/peptic	Hyperlipidemia	hyperactivity	100,188	10
Male	50+	Antidepressants						98,513	10
							Repl/regs of		
		Alpha agonist/alpha		Disorders,		Homeopathic	electrolytes/water		
Male	50+	blockers	Antidiarrheals	acid/peptic	Diuretics	products	balance	78,876	
Male	50+	NSAID						63,875	7
					Antihypertensive	Calcium			
Male	50+	Analgesics, narcotic	Antianxiety agents	Antidepressants	agents	metabolism	Thyroid/antithyroid	63,157	7
			Adrenal	Analgesics, non-	Antiarrhythmic	Topical anti-			
Male	50+	ACE inhibitors	corticosteroids	narcotic	agents	infectives		59,983	6
Male	50+	Anticonvulsants						58,855	6
Male	50+	ACE inhibitors	Antiarthritics	Beta blockers				55,893	6
			Skeletal muscle						
Male	50+	NSAID	hyperactivity					52,464	5
		Analgesics, non-							
Male	50+	narcotic						46,811	5
		Skeletal muscle							
Male	50+	hyperactivity						42,139	4
		Analgesics, non-	Skeletal muscle						
Male	50+	narcotic	hyperactivity					42,024	4

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
Male	50+	Analgesics, narcotic						20,319	2
Male	50+	Analgesics, narcotic	NSAID					15,935	2
Male	50+	Analgesics, non- narcotic	NSAID					7,512	1
Male	50+	Adrenal corticosteroids						4,765	0
Male	50+	Analgesics, non- narcotic	Antidepressants	Antidepressants				2,893	0
	Under 50		Skeletal muscle hyperactivity	·				273,057	
			Antiarthritics	Skeletal muscle hyperactivity				268,835	
		Antiarthritics	7 11.11.01.11.11.11.00	, p =				255,117	
	Under 50							232,209	
Female	Under 50	Analgesics, narcotic						150,847	7
Female	Under 50	Antiarthritics	Skeletal muscle hyperactivity					137,185	6
			Antiarthritics					126,808	
		Unclassified	Andardinacs					121,288	
	0.10.01.00	Skeletal muscle						,	
Female	Under 50	hyperactivity						91,674	. 4
Female	Under 50	Antiarthritics	Disorders, acid/peptic					84,694	. 4
Female	Under 50	Analgesics, non- narcotic	Skeletal muscle hyperactivity					72,699	3
Female	Under 50	Analgesics, narcotic	Antianxiety agents	Antiasthmatics/brond hodilators	Calcium channel blockers	Disorders, acid/peptic	Disorders, acid/peptic	71,982	
		Adrenal corticosteroids						67,600	3
Female	Under 50	Analgesics, narcotic	Skeletal muscle hyperactivity					58,557	3
Female	Under 50	Analgesics, narcotic	NSAID	Skeletal muscle hyperactivity				44,394	. 2

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
		Adrenal	Analgesics, non-						
		corticosteroids	narcotic					43,023	
Female	Under 50	Anticonvulsants						35,797	2
		Alpha agonist/alpha		Anticoagulants/thro			Relaxants/stimulants,		
Female	Under 50		Analgesics, narcotic	mbolytics	Antidepressants	Antidepressants	urinary tract	31,308	1
		Analgesics, non-							
Female	Under 50	narcotic	Antiarthritics					24,453	1
Female	Under 50	Analgesics, narcotic	NSAID					21,815	1
		Topical steroids						18,747	
		Anticonvulsants	Antidepressants					17,876	
	0	Adrenal	Anesthetics, local					,	
Female	Under 50	corticosteroids	(injectable)					14,663	1
			()			CNS,	Skeletal muscle	,	
Female	Under 50	Analgesics, narcotic	Analgesics, narcotic	Antidepressants	Antihistamines	miscellaneous	hyperactivity	14,663	1
		Adrenal	,	'			1	,	
Female	Under 50	corticosteroids	Topical analgesics					12,877	1
		Analgesics, non-							
Female	Under 50	narcotic						11,514	
Female	Under 50	Antidepressants						7,684	0
Female	Under 50	Analgesics, narcotic	Analgesics, narcotic	Analgesics, narcotic				6,027	0
Female	504	Analgesics, narcotic	Antianxiety agents	Antiarthritics	Skeletal muscle hyperactivity			120,767	14
Female		NSAID	Antianxiety agents	7 (11(1011111111111111111111111111111111	Пурстаститу			119,756	
Female		Antiarthritics						116,216	
Terriale	JUT	7 tritiar triritios						110,210	17
Female	50+	ACE inhibitors	Analgesics, narcotic	Antidepressants				91,242	11
Female	50 +	Analgesics, narcotic						83,399	10
· Omale		Analgesics, non-					1	00,000	.0
Female	50+	narcotic						79,797	9
romaio		Ocular anti-						10,101	
		infective/anti-							
Female	50+	inflammatory						67,835	8
		Í							
Female	50+	Analgesics, narcotic	Antiarthritics					35,840	4

	Age								
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Drug Class 4	Drug Class 5	Drug Class 6	N	PCTN
		Adrenal							
Female	50+	corticosteroids	NSAID					32,511	4
Female	50+	Topical steroids						30,263	4
				Skeletal muscle					
Female	50+	Analgesics, narcotic	NSAID	hyperactivity				27,300	3
			Skeletal muscle						
Female	50+	NSAID	hyperactivity					22,791	3
		Analgesics, non-							
Female	50+	narcotic	NSAID					18,337	2

Table 4a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Potential Driver Impairing Medications

	d Number of Poter		Gend				
		Mal	Le	Fema	ale	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of Potential Impairing Medications						
	0	106	52	122	61	228	57
	1	48	24	36	18	84	21
	2	29	14	30	15	59	15
	3	11	5	9	4	20	5
	4	5	2	1	0	6	1
	5	2	1	1	0	3	1
	6	1	0	2	1	3	1
	All	202	100	201	100	403	100
50+	Number of Potential Impairing Medications						
	0	41	52	32	48	73	50
	1	20	25	16	24	36	25
	2	10	13	9	14	19	13
	3	6	8	7	11	13	9
	4			1	2	1	1
	5	1	1	1	2	2	1
	6	1	1			1	1
	All	79	100	66	100	145	100
All Age	Number of Potential Impairing Medications						
	0	147	52	154	58	301	55
	1	68	24	52	19	120	22
	2	39	14	39	15	78	14
	3	17	6	16	6	33	6

Table 4a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Potential Driver Impairing Medications

			Gender					
		Mai	Male Female			Both		
		N PCTN N PCTN		PCTN	N	PCTN		
All Age	Number of Potential Impairing Medications							
	4	5	2	2	1	7	1	
	5	3	1	2	1	5	1	
	6	2	1	2	1	4	1	
	All	281	100	267	100	548	100	

Table 4b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Potential Driver Impairing Medications

			Gend	ler			
		Male		Female		Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of Potential Impairing Medications						
	0	2,984,378	49	3,358,017	56	6,342,395	53
	1	1,350,510	22	1,084,545	18	2,435,055	20
	2	1,028,611	17	999,880	17	2,028,491	17
	3	511,965	8	401,945	7	913,910	8
	4	153,775	3	6,879	0	160,654	1
	5	12,873	0	31,308	1	44,181	0
	6	31,308	1	86,645	1	117,953	1
	All	6,073,420	100	5,969,219	100	12,042,639	100
50+	Number of Potential Impairing Medications						
	0	1,008,577	46	872,853	39	1,881,430	42
	1	532,692	24	686,634	31	1,219,326	27
	2	248,612	11	309,768	14	558,380	13
	3	257,986	12	210,570	9	468,556	11
	4			120,767	5	120,767	3
	5	63,157	3	45,784	2	108,941	2
	6	100,188	5			100,188	2
	All	2,211,212	100	2,246,376	100	4,457,588	100
All Age	Number of Potential Impairing Medications						
	0	3,992,955	48	4,230,870	51	8,223,825	50
	1	1,883,202	23	1,771,179	22	3,654,381	22
	2	1,277,223	15	1,309,648	16	2,586,871	16
	3	769,951	9	612,515	7	1,382,466	8

Table 4b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Potential Driver Impairing Medications

			Gender				
		Male		Female		Both	
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Potential Impairing Medications						
	4	153,775	2	127,646	2	281,421	2
	5	76,030	1	77,092	1	153,122	1
	6	131,496	2	86,645	1	218,141	1
	All	8,284,632	100	8,215,595	100	16,500,227	100

Table 5a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Conflict Medications

	and Number	Number of Conflict Medications							
			Gend						
		Male		Female		Both			
		N	PCTN	N	PCTN	N	PCTN		
Age Group Under 50	Number of Drug-Drug Conflicts								
	0	185	92	193	96	378	94		
	1	7	3	3	1	10	2		
	2	4	2	1	0	5	1		
	3	1	0			1	0		
	4	2	1			2	0		
	5	1	0	1	0	2	0		
	6	2	1	1	0	3	1		
	7			1	0	1	0		
	10			1	0	1	0		
	All	202	100	201	100	403	100		
50+	Number of Drug-Drug Conflicts								
	0	75	95	57	86	132	91		
	1	2	3	8	12	10	7		
	2	2	3			2	1		
	4			1	2	1	1		
	All	79	100	66	100	145	100		
All Age	Number of Drug-Drug Conflicts								
	0	260	93	250	94	510	93		
	1	9	3	11	4	20	4		
	2	6	2	1	0	7	1		
	3	1	0			1	0		
	4	2	1	1	0	3	1		
	5	1	0	1	0	2	0		
	6	2	1	1	0	3	1		

Table 5a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Conflict Medications

			Gender				
		Male		Female		Both	
		N	PCTN	N	PCTN	N PCTN	
All Age	Number of Drug-Drug Conflicts						
	7			1	0	1	o
	10			1	0	1	0
	All	281	100	267	100	548	100

Table 5b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Conflict Medications (Weighted)

			Geno	ler			
		Male		Female		Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of Drug-Drug Conflicts						
	0	5,714,275	94	5,750,312	96	11,464,587	95
	1	155,752	3	27,648	0	183,400	2
	2	119,255	2	12,055	0	131,310	1
	3	16,847	0			16,847	0
	4	43,363	1			43,363	0
	5	7,512	0	14,663	0	22,175	0
	6	16,416	0	71,982	1	88,398	1
	7			31,308	1	31,308	0
	10			61,251	1	61,251	1
	All	6,073,420	100	5,969,219	100	12,042,639	100
50+	Number of Drug-Drug Conflicts						
	0	2,026,019	92	1,797,027	80	3,823,046	86
	1	21,848	1	403,565	18	425,413	10
	2	163,345	7			163,345	4
	4			45,784	2	45,784	1
	All	2,211,212	100	2,246,376	100	4,457,588	100
All Age	Number of Drug-Drug Conflicts						
	0	7,740,294	93	7,547,339	92	15,287,633	93
	1	177,600	2	431,213	5	608,813	4
	2	282,600	3	12,055	0	294,655	2
	3	16,847	0			16,847	0
	4	43,363	1	45,784	1	89,147	1
	5	7,512	0	14,663	0	22,175	0
	6	16,416	0	71,982	1	88,398	1

Table 5b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Conflict Medications (Weighted)

			Gender					
		Male	Male		Female			
		N	PCTN	N	PCTN	N	PCTN	
All Age	Number of Drug-Drug Conflicts							
	7			31,308	0	31,308	o	
	10			61,251	1	61,251	0	
	All	8,284,632	100	8,215,595	100	16,500,227	100	

Table 6a. Number of Physician Visits of MVA Patients by Age, Gender, and Potential Driver Impairing Disease Groups

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	Disease Group	N	PCTN
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			1
	Under 50 50+ 50+ 50+ 50+ 50+ 50+ 50+ 50+ 50+ 5	Group Disease Group Under 50 FRACTURES AND INJURIES Under 50 CNS EXCITATION Under 50 DEPRESSION Under 50 DEPRESSION Under 50 HEAD TRAUMA Under 50 BIPOLAR DISORDERS Under 50 ANXIETY DISORDERS Under 50 ANKYLOSING SPONDYLITIS Under 50 ARTHROPATHIES, OTHER Under 50 BPILEPSY Under 50 HYPERTHYROIDISM Under 50 DESITY Under 50 DESITY Under 50 PANIC DISORDERS Under 50 PANIC DISORDERS Under 50 PERSONALITY DISORDERS Under 50 PERSONALITY DISORDERS Under 50 TUBERCULOSIS 50+ FRACTURES AND INJURIES 50+ ANEURYSM 50+ CARDIOVASCULAR DISEASE 50+ CNS EXCITATION 50+ HYPERTENSION 50+ PERIPHERAL NEUROPATHY 50+ SEROTONIN SYNDROME SYMPTOMS 50+ ANKYLOSING SPONDYLITIS 50+ ANKYLOSING SPONDYLITIS 50+ ARHYTHMIAS 50+ ARHATITIS, RHEUMATOID 50+ ATRIAL FIBRILLATION 50+ DYSKINESIAS 50+ GASTRITIS 50+ GASTRITIS 50+ GI HEMORRHAGE 50+ HYPERLIPIDEMIA-2 50+ LIPID ABNORMALITIES 50+ LIPID ABNORMALITIES 50+ LIPID ABNORMALITIES 50+ PSYCHOSES, DRUG INDUCED 50+ SYMPTOMS OF GI IRRITATION	Group Disease Group N Under 50 FRACTURES AND INJURIES 89 Under 50 CNS EXCITATION 13 Under 50 DEPRESSION 6 Under 50 DEPRESSION 6 Under 50 HEAD TRAUMA 3 Under 50 ANXIETY DISORDERS 2 Under 50 BIPOLAR DISORDER 2 Under 50 BIPOLAR DISORDER 2 Under 50 BEROTONIN SYNDROME SYMPTOMS 2 Under 50 BEROTONIN SYNDROME SYMPTOMS 2 Under 50 SEROTONIN SYNDROME SYMPTOMS 2 Under 50 SEROTONIN SYNDROME SYMPTOMS 2 Under 50 ARTHROPATHIES, OTHER 1 Under 50 PERETHYROIDISM 1 Under 50 PERILEPSY 1 Under 50 DESITY 1 Under 50 PERSONALITY DISORDERS 1 Under 50 PERSONALITY DISORDERS 1 Under 50 THYROID DISEASE 1 Under 50 THYROID DISEASE

Table 6a. Number of Physician Visits of MVA Patients by Age, Gender, and Potential Driver Impairing Disease Groups

	Age			
Gender	Group	Disease Group	N	PCTN
Female	Under 50	ANXIETY DISORDERS	1	1
Female	Under 50	ARTHROPATHIES, OTHER	1	1
Female	Under 50	BIPOLAR DISORDER	1	1
Female	Under 50	BLEEDING	1	1
Female	Under 50	DEEP VEIN THROMBOSIS	1	1
Female	Under 50	DEPRESSION	1	1
Female	Under 50	DIABETES MELLITUS I AND II	1	1
Female	Under 50	HEMOPTYSIS	1	1
Female	Under 50	HIV	1	1
		HYPOTHYROIDISM	1	1
		PERIPHERAL NEUROPATHY	1	1
Female	Under 50	RESPIRATORY INFECTIONS	1	1
Female	Under 50	SEROTONIN SYNDROME SYMPTOMS	1	1
Female	Under 50	STRESS DISORDERS	1	1
Female	Under 50	TEST	1	1
Female	Under 50	THYROID DISEASE	1	1
Female	50+	FRACTURES AND INJURIES	26	50
Female	50+	CNS EXCITATION	4	8
Female	50+	PSYCHOSES, DRUG INDUCED	3	6
Female	50+	CARDIOVASCULAR DISEASE	2	4
Female	50+	SEROTONIN SYNDROME SYMPTOMS	2	4
Female	50+	ALCOHOLISM	1	2
Female	50+	ANKYLOSING SPONDYLITIS	1	2
Female	50+	ANXIETY DISORDERS	1	2
Female	50+	BLEEDING	1	2
Female	50+	CONGESTIVE HEART FAILURE	1	2
Female	50+	COPD	1	2
Female	50+	DEPRESSION	1	2
Female	50+	HEMATURIA	1	2
Female	50+	HYPERSENSITIVITY REACTIONS	1	2
Female	50+	HYPERTENSION	1	2
Female	50+	LACTIC ACIDOSIS SYMPTOMS	1	2
Female	50+	PERIPHERAL NEUROPATHY	1	2
Female	50+	PERSONALITY DISORDERS	1	2
Female	50+	PSYCHOSES	1	2
Female	50+	SUICIDAL BEHAVIOR	1	2

Table 6b. Number of Physician Visits of MVA Patients by Age, Gender, and Potential Driver Impairing Disease Groups (Weighted)

Gender Group Disease Group N PCTN Male Under 50 FRACTURES AND INJURIES 2,887,395 72 Male Under 50 CNS EXCITATION 491,691 72 Male Under 50 PSYCHOSES, DRUG INDUCED 140,095 3 Male Under 50 DEPRESSION 106,312 3 Male Under 50 DESITY 46,733 1 Male Under 50 OBESITY 46,733 1 Male Under 50 OBESITY 46,733 1 Male Under 50 DERCOLOSIS 45,075 1 Male Under 50 DERCOLOSIS 45,075 1 Male Under 50 DERCOLOSIS 45,075 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 40,236 1 Male Under 50 BIPOLAR DISORDERS 22,575 1 Male Under 50 SUCIDAL BEHAVIOR 25,595 1 Male Under 50 <th></th> <th>Age</th> <th></th> <th></th> <th></th>		Age			
Male Under 50 FRACTURES AND INJURIES 2,887,395 72 Male Under 50 CNS EXCITATION 491,691 12 Male Under 50 PSYCHOSES, DRUG INDUCED 140,095 3 Male Under 50 DEPRESSION 106,312 3 Male Under 50 DEPRESSION 106,312 3 Male Under 50 DEPRESSION 106,312 3 Male Under 50 DRSITY 46,733 2 Male Under 50 DRSITY 46,733 4 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 40,236 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 40,236 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 40,236 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 42,559 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 23,595 1 Male Under 50 SARTHROPATHIES, OTHER 19,304 1<	Gender		Disease Group	N	PCTN
Male Under 50 CNS EXCITATION 491,691 12 Male Under 50 PSYCHOSES, DRUG INDUCED 140,095 3 Male Under 50 DEPRESSION 106,312 3 Male Under 50 DEPRESSION 70,387 2 Male Under 50 DESITY 46,733 1 Male Under 50 TUBERCULOSIS 45,075 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 40,236 1 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 40,236 1 Male Under 50 BIPOLAR DISORDERS 32,471 1 Male Under 50 BIPOLAR DISORDERS 25,595 1 Male Under 50 PERSONALITY DISORDERS 25,595 1 Male Under 50 PERSONALITY DISORDERS 25,595 1 Male Under 50 ARTHROPATHIES, OTHER 19,304 0 Male Under 50 ANITYROID DISEASE 17,923 0 <t< td=""><td></td><td></td><td>· ·</td><td>2.887.395</td><td>72</td></t<>			· ·	2.887.395	72
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TELLINE TOTALE OF THE	Female			61,251	1

Table 6b. Number of Physician Visits of MVA Patients by Age, Gender, and Potential Driver Impairing Disease Groups (Weighted)

	Age			
Gender	Group	Disease Group	N	PCTN
Female		HYPOTHYROIDISM	42,347	1
Female		THYROID DISEASE	42,347	1
Female	Under 50	PSYCHOSES, DRUG INDUCED	31,954	1
Female	Under 50	BLEEDING	29,145	1
Female	Under 50	HEMOPTYSIS	29,145	1
Female	Under 50	ARTHROPATHIES, OTHER	28,682	1
Female		ANXIETY DISORDERS	21,416	1
Female	Under 50	DIABETES MELLITUS I AND II	20,083	0
Female	Under 50	STRESS DISORDERS	20,083	0
Female	Under 50	TEST	20,083	0
Female	Under 50	PERIPHERAL NEUROPATHY	17,155	0
Female	Under 50	SEROTONIN SYNDROME SYMPTOMS	14,663	0
Female	Under 50	ALCOHOLISM	10,538	0
Female	Under 50	BIPOLAR DISORDER	10,538	0
Female	Under 50	DEPRESSION	10,538	0
Female	Under 50	DEEP VEIN THROMBOSIS	6,027	0
Female	50+	FRACTURES AND INJURIES	780,948	39
Female	50+	CNS EXCITATION	258,496	13
Female	50+	SEROTONIN SYNDROME SYMPTOMS	172,885	9
Female	50+	CARDIOVASCULAR DISEASE	170,526	8
Female	50+	HYPERTENSION	106,606	5
Female	50+	PSYCHOSES, DRUG INDUCED	83,874	4
Female	50+	ALCOHOLISM	63,920	3
Female	50+	CONGESTIVE HEART FAILURE	63,920	3
Female	50+	BLEEDING	53,755	3
Female	50+	HEMATURIA	53,755	3
Female	50+	COPD	45,149	2
Female	50+	PSYCHOSES	43,933	2
Female	50+	ANKYLOSING SPONDYLITIS	36,361	2
Female	50+	ANXIETY DISORDERS	21,416	1
Female	50+	PERSONALITY DISORDERS	18,525	1
Female	50+	SUICIDAL BEHAVIOR	18,525	1
Female	50+	PERIPHERAL NEUROPATHY	11,788	1
Female	50+	HYPERSENSITIVITY REACTIONS	5,626	0
Female	50+	LACTIC ACIDOSIS SYMPTOMS	5,626	0
Female	50+	DEPRESSION	2,893	0

Table 7a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Potential Driver Impairing Disease Groups

		Gender					
		Mal	Le	Female		Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of — Potential Impairing Disease Groups						
	0	89	44	91	45	180	45
	1	96	48	92	46	188	47
	2	14	7	13	6	27	7
	3	2	1	3	1	5	1
	4	1	0	2	1	3	1
	All	202	100	201	100	403	100
50+	Number of Potential Impairing Disease Groups						
	0	35	44	28	42	63	43
	1	34	43	28	42	62	43
	2	4	5	7	11	11	8
	3	1	1	2	3	3	2
	4	3	4	1	2	4	3
	5	2	3			2	1
	All	79	100	66	100	145	100
All Age	Number of Potential Impairing Disease Groups						
	0	124	44	119	45	243	44
	1	130	46	120	45	250	46
	2	18	6	20	7	38	7
	3	3	1	5	2	8	1
	4	4	1	3	1	7	1
	5	2	1			2	0
	All	281	100	267	100	548	100

Table 7b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Potential Driver Impairing Disease Groups (Weighted)

			Gend	ler			
		Male		Female		Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Potential						
Under 50	Impairing Disease Groups						
	0	2,593,123	43	2,546,055	43	5,139,178	43
	1	3,003,455	49	2,745,844	46	5,749,299	48
	2	429,137	7	540,589	9	969,726	8
	3	36,650	1	106,110	2	142,760	1
	4	11,055	0	30,621	1	41,676	0
	All	6,073,420	100	5,969,219	100	12,042,639	100
50+	Number of Potential Impairing Disease Groups						
	0	919,305	42	989,177	44	1,908,482	43
	1	917,876	42	791,528	35	1,709,404	38
	2	80,410	4	276,620	12	357,030	8
	3	33,467	2	82,445	4	115,912	3
	4	81,090	4	106,606	5	187,696	4
	5	179,064	8			179,064	4
	All	2,211,212	100	2,246,376	100	4,457,588	100
All Age	Number of Potential Impairing Disease Groups						
	0	3,512,428	42	3,535,232	43	7,047,660	43
	1	3,921,331	47	3,537,372	43	7,458,703	45
	2	509,547	6	817,209	10	1,326,756	8
	3	70,117	1	188,555	2	258,672	2
	4	92,145	1	137,227	2	229,372	1
	5	179,064	2			179,064	1
	All	8,284,632	100	8,215,595	100	16,500,227	100

Table 8a. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Disease-Drug Conflicts

			Gend				
		Mal	Le	Fema	ale	Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of Disease-Drug Conflicts						
	0	201	100	201	100	402	100
	1	1	0			1	0
	All	202	100	201	100	403	100
50+	Number of Disease-Drug Conflicts						
	0	79	100	66	100	145	100
	All	79	100	66	100	145	100
All Age	Number of Disease-Drug Conflicts						
	0	280	100	267	100	547	100
	1	1	0			1	0
	All	281	100	267	100	548	100

Table 8b. Number of Physician Visits of MVA Patients by Age, Gender, and Number of Disease-Drug Conflicts (Weighted)

			Gend	der			
		Male		Female		Both	
		N	PCTN	N	PCTN	N	PCTN
Age Group Under 50	Number of Disease-Drug Conflicts						
	0	6,057,720	100	5,969,219	100	12,026,939	100
	1	15,700	0			15,700	0
	All	6,073,420	100	5,969,219	100	12,042,639	100
50+	Number of Disease-Drug Conflicts						
	0	2,211,212	100	2,246,376	100	4,457,588	100
	All	2,211,212	100	2,246,376	100	4,457,588	100
All Age	Number of Disease-Drug Conflicts						
	0	8,268,932	100	8,215,595	100	16,484,527	100
	1	15,700	0			15,700	0
	All	8,284,632	100	8,215,595	100	16,500,227	100

Table 1a. Number of Patients by Age and Gender Case Group

		Gend				
	Female		Male		Both	
	N	PCTN	N	PCTN	N	PCTN
Age Group						
Under 50	15,479	84	12,728	83	28,207	84
50+	2,842	16	2,556	17	5,398	16
All Age	18,321	100	15,284	100	33,605	100

Table 1b. Number of Patients by Age and Gender Control Group

		Gend				
	Female		Male		Both	
	N	PCTN	N	PCTN	N	PCTN
Age Group						
Under 50	46,437	84	38,184	83	84,621	84
50+	8,526	16	7,668	17	16,194	16
All Age	54,963	100	45,852	100	100,815	100

Table 2a. Number of Patients by Age, Gender, and Number of Medications Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Medications						
Under 50	0	6,652	43	8,034	63	14,686	52
	1	2,790	18	1,715	13	4,505	16
	2	2,013	13	1,224	10	3,237	11
	3	1,286	8	635	5	1,921	7
	4	890	6	402	3	1,292	Ę
	5	517	3	257	2	774	3
	6	369	2	144	1	513	2
	7	270	2	95	1	365	1
	8	185	1	60	0	245	1
	9	131	1	42	0	173	1
	10	87	1	34	0	121	(
	11	65	0	18	0	83	(
	12	42	0	21	0	63	(
	13	31	0	11	0	42	(
	14	36	0	11	0	47	(
	15	28	0	6	0	34	(
	16	18	0	6	0	24	(
	17	15	0	1	0	16	(
	18	9	0	2	0	11	(
	19	6	0	1	0	7	(
	20	7	0	2	0	9	(
	21	6	0	3	0	9	(
	22	4	0	2	0	6	(
	23	4	0			4	(
	24	3	0			3	(

Table 2a. Number of Patients by Age, Gender, and Number of Medications Case Group

			Gend	der	-		
		Fema	ale	Mal	Le	Bo1	th
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of — Medications						
Under 50	25	4	0			4	0
	26	2	0			2	0
	27	1	0			1	0
	28	1	0	1	0	2	0
	29	1	0			1	0
	31	1	0			1	0
	32	2	0			2	0
	34	1	0			1	0
	35	1	0			1	0
	36	1	0			1	0
	37			1	0	1	0
	All	15,479	100	12,728	100	28,207	100
50+	Number of Medications						
	0	638	22	896	35	1,534	28
	1	378	13	367	14	745	14
	2	369	13	331	13	700	13
	3	328	12	231	9	559	10
	4	280	10	195	8	475	9
	5	187	7	125	5	312	6
	6	161	6	91	4	252	5
	7	111	4	84	3	195	4
	8	83	3	53	2	136	3
	9	67	2	52	2	119	2
	10	55	2	26	1	81	2

Table 2a. Number of Patients by Age, Gender, and Number of Medications Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Medications						
50+	11	30	1	34	1	64	1
	12	26	1	20	1	46	1
	13	32	1	9	0	41	1
	14	25	1	16	1	41	1
	15	15	1	7	0	22	0
	16	10	0	2	0	12	0
	17	10	0	7	0	17	0
	18	5	0	3	0	8	0
	19	7	0	1	0	8	0
	20	4	0	1	0	5	0
	21	5	0	2	0	7	0
	22	3	0			3	0
	23	2	0	2	0	4	0
	24	2	0			2	0
	25	2	0			2	0
	26	1	0	1	0	2	0
	27	1	0			1	0
	28	1	0			1	0
	29	1	0			1	0
	30	1	0			1	0
	32	1	0			1	0
	36	1	0			1	0
	All	2,842	100	2,556	100	5,398	100

Table 2a. Number of Patients by Age, Gender, and Number of Medications Case Group

			Gend	der			
		Fema	ale	Ma]	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Medications						
	0	7,290	40	8,930	58	16,220	48
	1	3,168	17	2,082	14	5,250	16
	2	2,382	13	1,555	10	3,937	12
	3	1,614	9	866	6	2,480	7
	4	1,170	6	597	4	1,767	5
	5	704	4	382	2	1,086	3
	6	530	3	235	2	765	2
	7	381	2	179	1	560	2
	8	268	1	113	1	381	1
	9	198	1	94	1	292	1
	10	142	1	60	0	202	1
	11	95	1	52	0	147	0
	12	68	0	41	0	109	0
	13	63	0	20	0	83	0
	14	61	0	27	0	88	0
	15	43	0	13	0	56	0
	16	28	0	8	0	36	0
	17	25	0	8	0	33	0
	18	14	0	5	0	19	0
	19	13	0	2	0	15	0
	20	11	0	3	0	14	0
	21	11	0	5	0	16	0
	22	7	0	2	0	9	0
	23	6	0	2	0	8	0
	24	5	0			5	0

Table 2a. Number of Patients by Age, Gender, and Number of Medications Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bo1	th
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Medications						
	25	6	0			6	0
	26	3	0	1	0	4	0
	27	2	0			2	0
	28	2	0	1	0	3	0
	29	2	0			2	0
	30	1	0			1	0
	31	1	0			1	0
	32	3	0			3	0
	34	1	0			1	0
	35	1	0			1	0
	36	2	0			2	0
	37			1	0	1	0
	All	18,321	100	15,284	100	33,605	100

Table 2b. Number of Patients by Age, Gender, and Number of Medications Control Group

			Gen	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Medications						
Under 50	0	25,338	55	26,475	69	51,813	61
	1	8,953	19	5,018	13	13,971	17
	2	5,262	11	3,084	8	8,346	10
	3	2,753	6	1,528	4	4,281	Ę
	4	1,651	4	855	2	2,506	3
	5	919	2	500	1	1,419	2
	6	540	1	279	1	819	
	7	349	1	153	0	502	•
	8	216	0	97	0	313	(
	9	139	0	65	0	204	(
	10	119	0	48	0	167	(
	11	65	0	24	0	89	(
	12	27	0	13	0	40	(
	13	24	0	11	0	35	(
	14	23	0	11	0	34	(
	15	9	0	3	0	12	(
	16	18	0	6	0	24	(
	17	7	0	1	0	8	(
	18	5	0	4	0	9	(
	19	8	0	1	0	9	(
	20	3	0	3	0	6	(
	21	4	0	1	0	5	(
	22	1	0	1	0	2	(
	23	1	0	1	0	2	(
	24	2	0			2	

Table 2b. Number of Patients by Age, Gender, and Number of Medications Control Group

			Gen	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Medications						
Under 50	28	_		1	0	1	0
	29	1	0			1	0
	34			1	0	1	0
	All	46,437	100	38,184	100	84,621	100
50+	Number of Medications						
	0	2,675	31	3,197	42	5,872	36
	1	1,251	15	1,144	15	2,395	15
	2	1,205	14	999	13	2,204	14
	3	888	10	683	9	1,571	10
	4	676	8	481	6	1,157	7
	5	463	5	332	4	795	5
	6	383	4	239	3	622	4
	7	268	3	169	2	437	3
	8	205	2	122	2	327	2
	9	114	1	95	1	209	1
	10	97	1	47	1	144	1
	11	88	1	40	1	128	1
	12	53	1	34	0	87	1
	13	42	0	29	0	71	0
	14	31	0	15	0	46	0
	15	20	0	12	0	32	0
	16	14	0	6	0	20	0
	17	9	0	8	0	17	0
	18	8	0	4	0	12	0

Table 2b. Number of Patients by Age, Gender, and Number of Medications Control Group

			Gen	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Medications						
50+	19	8	0	4	0	12	C
	20	5	0	3	0	8	C
	21	9	0	1	0	10	C
	22			1	0	1	C
	23	6	0			6	C
	24	3	0	1	0	4	C
	25			1	0	1	C
	26	3	0	1	0	4	C
	27	1	0			1	(
	30	1	0			1	C
	All	8,526	100	7,668	100	16,194	100
All Age	Number of Medications						
	0	28,013	51	29,672	65	57,685	57
	1	10,204	19	6,162	13	16,366	16
	2	6,467	12	4,083	9	10,550	10
	3	3,641	7	2,211	5	5,852	6
	4	2,327	4	1,336	3	3,663	4
	5	1,382	3	832	2	2,214	2
	6	923	2	518	1	1,441	1
	7	617	1	322	1	939	1
	8	421	1	219	0	640	1
	9	253	0	160	0	413	(
	10	216	0	95	0	311	(
	11	153	0	64	0	217	C

Table 2b. Number of Patients by Age, Gender, and Number of Medications Control Group

			Gend	der			
		Fema	ale	Ma]	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Medications						
	12	80	0	47	0	127	0
	13	66	0	40	0	106	0
	14	54	0	26	0	80	0
	15	29	0	15	0	44	0
	16	32	0	12	0	44	0
	17	16	0	9	0	25	0
	18	13	0	8	0	21	0
	19	16	0	5	0	21	0
	20	8	0	6	0	14	0
	21	13	0	2	0	15	0
	22	1	0	2	0	3	0
	23	7	0	1	0	8	0
	24	5	0	1	0	6	0
	25			1	0	1	0
	26	3	0	1	0	4	0
	27	1	0			1	0
	28			1	0	1	0
	29	1	0			1	0
	30	1	0			1	0
	34			1	0	1	0
	All	54,963	100	45,852	100	100815	100

Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				1	
Gender	_	Drug Class 1	Drug Class 2	Drug Class 3	N	PCTN
		CONTRACEPTIVES,ORAL		g	658	
		PRENATAL VITAMIN PREPARATIONS			214	
		SEROTONIN SPECIFIC REUPTAKE				
Female	Under 50	INHIBITOR (SSRIS)			211	7
		ANALGESICS,NARCOTICS			192	6
		NSAIDS, CYCLOOXYGENASE INHIBITOR				
	Under 50				152	5
Female	Under 50	PENICILLINS			144	5
		ANTIHISTAMINES			108	3
		MACROLIDES			103	3
		THYROID HORMONES			77	2
Female	Under 50	ESTROGENIC AGENTS			72	2
			NSAIDS, CYCLOOXYGENASE			
		SKELETAL MUSCLE RELAXANTS	INHIBITOR - TYPE		71	2
		BETA-ADRENERGIC AGENTS			57	2
Female	Under 50	ABSORBABLE SULFONAMIDES			55	2
Female	Under 50	GASTRIC ACID SECRETION REDUCERS			55	2
			NSAIDS, CYCLOOXYGENASE			
		ANALGESICS,NARCOTICS	INHIBITOR - TYPE		51	2
Female	Under 50	ANALGESICS,NARCOTICS	PENICILLINS		49	2
C		CEDITAL OCCUPING ACT CENEDATION			40	0
		CEPHALOSPORINS - 1ST GENERATION TETRACYCLINES			48 44	2
		ANTICONVULSANTS			44	1
remale		TOPICAL ANTI-INFLAMMATORY			42	1
Fomolo		STEROIDAL			38	4
remale	Under 50	STEROIDAL	SKELETAL MUSCLE	NSAIDS, CYCLOOXYGENASE	36	
Fomolo	Under 50	ANALGESICS,NARCOTICS	RELAXANTS	INHIBITOR - TYPE	36	4
		ANTI-ANXIETY DRUGS	RELAXANTS	INTIBITOR - TTFE	36	
Гептане	Officer 50	ANTI-ANXIETT DROGS	SEROTONIN SPECIFIC		30	
Fomalo	Lindor 50	CONTRACEPTIVES,ORAL	REUPTAKE INHIBITOR (SSRIS)		36	4
		SKELETAL MUSCLE RELAXANTS	TAKE INTIBITOR (331(13)		36	
		ANTIFUNGAL AGENTS			34	1
		TOPICAL ANTIBIOTICS			34	1
гентане	Unider 50	TOFICAL AINTIDIOTICS			34	l l

Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age					
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Ν	PCTN
Female	Under 50	CONTRACEPTIVES,ORAL	ANTIHISTAMINES	<u> </u>	32	1
		ANTIVIRALS, GENERAL			31	1
Female	Under 50	ANTIMIGRAINE PREPARATIONS			29	1
Female	Under 50	ANALGESICS,NARCOTICS	SKELETAL MUSCLE		28	1
Female	Under 50	EXPECTORANTS			26	1
Female	Under 50	EXPECTORANTS	MACROLIDES		26	1
Female	Under 50	COUGH AND/OR COLD PREPARATIONS			24	1
		NASAL ANTI-INFLAMMATORY				
		STEROIDS			24	1
Female	Under 50	QUINOLONES			24	1
		BETA-ADRENERGIC BLOCKING AGENTS			21	1
		EXPECTORANTS	PENICILLINS		21	1
Female		OPHTHALMIC ANTIBIOTICS			21	1
		NSAIDS, CYCLOOXYGENASE INHIBITOR				
	Under 50		PENICILLINS		20	1
		PENICILLINS	ANTIHISTAMINES		20	1
		GLUCOCORTICOIDS			17	1
Female		HYPOTENSIVES, ACE INHIBITORS			16	1
		SEROTONIN-NOREPINEPHRINE				
		REUPTAKE-INHIB (SNRIS)			16	
Female		LIPOTROPICS			14	0
		NASAL ANTI-INFLAMMATORY				
		STEROIDS	ANTIHISTAMINES		14	0
		TOPICAL ANTIFUNGALS			13	0
Female	Under 50	INSULINS			11	0
Female	Under 50	CALCIUM CHANNEL BLOCKING AGENTS			10	0
			CEPHALOSPORINS - 1ST			
Female		ANALGESICS,NARCOTICS	GENERATION		8	0
		ANTI-NARCOLEPSY/ANTI-				
		HYPERKINESIS, STIMULANT-TYPE			6	0
Female	50+	ESTROGENIC AGENTS			94	25

Appendix VII. Nonproprietary Database, Restrict Definition Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age			I		
Gender	_	Drug Class 1	Drug Class 2	Drug Class 3	Ν	PCTN
		NSAIDS, CYCLOOXYGENASE INHIBITOR	9			
Female	50+	- TYPE			23	6
Female	50+	THYROID HORMONES			23	6
Female	50+	ANALGESICS,NARCOTICS			22	6
Female	50+	LIPOTROPICS			21	6
Female		CALCIUM CHANNEL BLOCKING AGENTS			18	
Female	50+	HYPOTENSIVES, ACE INHIBITORS			17	5
Female	50+	GASTRIC ACID SECRETION REDUCERS			14	4
		SEROTONIN SPECIFIC REUPTAKE				
Female		INHIBITOR (SSRIS)			12	
Female	50+	ANTIHISTAMINES			9	2
			NSAIDS, CYCLOOXYGENASE			
Female		ANALGESICS,NARCOTICS	INHIBITOR - TYPE		8	
Female		ANTI-ANXIETY DRUGS			8	2
Female		ANTICONVULSANTS			8	
Female	50+	ANALGESICS,NARCOTICS	SKELETAL MUSCLE		6	2
			SKELETAL MUSCLE	NSAIDS, CYCLOOXYGENASE		
Female		ANALGESICS,NARCOTICS	RELAXANTS	INHIBITOR - TYPE	6	
Female		EXPECTORANTS			6	
Female	50+	SKELETAL MUSCLE RELAXANTS			6	2
		TOPICAL ANTI-INFLAMMATORY				
Female	50+	STEROIDAL			6	2
					_	
Female		CEPHALOSPORINS - 1ST GENERATION			5	
Female		GLUCOCORTICOIDS			5	
Female		QUINOLONES			5	
Female	50+	TOPICAL ANTIFUNGALS			5	1
Female		BETA-ADRENERGIC BLOCKING AGENTS			4	1
Female		CONTRACEPTIVES,ORAL			4	1
Female	50+	OPHTHALMIC ANTIBIOTICS			4	1
			CEPHALOSPORINS - 1ST		_	
Female	50+	ANALGESICS,NARCOTICS	GENERATION		3	1

Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age					
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	Ν	PCTN
Female	50+	ANTIFUNGAL AGENTS			3	1
Female		ANTIMIGRAINE PREPARATIONS			3	1
Female	50+	BETA-ADRENERGIC AGENTS			3	1
Female		MACROLIDES			3	
Female	50+	PENICILLINS			3	1
			NSAIDS, CYCLOOXYGENASE			
Female		SKELETAL MUSCLE RELAXANTS	INHIBITOR - TYPE		3	1
Female	50+	ANTIVIRALS, GENERAL			2	1
Female		COUGH AND/OR COLD PREPARATIONS			2	1
Female		INSULINS			2	1
Female		ABSORBABLE SULFONAMIDES			1	0
Female		ANALGESICS,NARCOTICS	PENICILLINS		1	0
		NASAL ANTI-INFLAMMATORY				
Female		STEROIDS			1	0
		NSAIDS, CYCLOOXYGENASE INHIBITOR				
Female		- TYPE	PENICILLINS		1	0
		SEROTONIN-NOREPINEPHRINE				
Female		REUPTAKE-INHIB (SNRIS)			1	0
Female		TETRACYCLINES			1	0
Male		ANALGESICS,NARCOTICS			251	13
		NSAIDS, CYCLOOXYGENASE INHIBITOR				
	Under 50				138	
Male		PENICILLINS			119	6
		SEROTONIN SPECIFIC REUPTAKE				_
Male		INHIBITOR (SSRIS)			117	6
Male	Under 50	ANTIHISTAMINES			103	5
		0.4.0				
Male		GASTRIC ACID SECRETION REDUCERS			86	
Male	Under 50	MACROLIDES			75	4
			NSAIDS, CYCLOOXYGENASE			ا ا
Male	Under 50	ANALGESICS,NARCOTICS	INHIBITOR - TYPE		63	3
Male		CEPHALOSPORINS - 1ST GENERATION			61	3
Male	Under 50	ANTICONVULSANTS			59	3

Appendix VII. Nonproprietary Database, Restrict Definition Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age					
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	N	PCTN
Male	Under 50	TETRACYCLINES	-		57	3
Male	Under 50	ANALGESICS,NARCOTICS	PENICILLINS		50	3
Male	Under 50	BETA-ADRENERGIC AGENTS			50	3
Male	Under 50	ANALGESICS,NARCOTICS	SKELETAL MUSCLE		49	2
			NSAIDS, CYCLOOXYGENASE			
Male	Under 50	SKELETAL MUSCLE RELAXANTS	INHIBITOR - TYPE		38	2
		BETA-ADRENERGIC BLOCKING AGENTS			35	2
		HYPOTENSIVES, ACE INHIBITORS			34	
Male	Under 50	SKELETAL MUSCLE RELAXANTS			34	2
		TOPICAL ANTI-INFLAMMATORY				
Male		STEROIDAL			34	2
		ANTI-NARCOLEPSY/ANTI-				
Male	Under 50	HYPERKINESIS, STIMULANT-TYPE			32	
Male	Under 50	LIPOTROPICS			28	1
			SKELETAL MUSCLE	NSAIDS, CYCLOOXYGENASE		
		ANALGESICS,NARCOTICS	RELAXANTS	INHIBITOR - TYPE	27	1
		ANTI-ANXIETY DRUGS			27	1
Male	Under 50	TOPICAL ANTIBIOTICS			27	1
			CEPHALOSPORINS - 1ST			
		ANALGESICS,NARCOTICS	GENERATION		26	1
		QUINOLONES			26	1
		THYROID HORMONES			26	1
		GLUCOCORTICOIDS			25	1
		EXPECTORANTS			23	1
		EXPECTORANTS	PENICILLINS		22	1
		TOPICAL ANTIFUNGALS			22	1
		EXPECTORANTS	MACROLIDES		21	1
		ABSORBABLE SULFONAMIDES			19	1
		ANTIVIRALS, GENERAL			19	1
Male		INSULINS			18	1
		NSAIDS, CYCLOOXYGENASE INHIBITOR				
	Under 50		PENICILLINS		18	
Male	Under 50	OPHTHALMIC ANTIBIOTICS			18	1

Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age					
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	N	PCTN
		NASAL ANTI-INFLAMMATORY				
Male	Under 50	STEROIDS	ANTIHISTAMINES		17	1
Male	Under 50	CALCIUM CHANNEL BLOCKING AGENTS			15	1
		SEROTONIN-NOREPINEPHRINE				
Male		REUPTAKE-INHIB (SNRIS)			14	
Male		PENICILLINS	ANTIHISTAMINES		13	1
		NASAL ANTI-INFLAMMATORY				
Male	Under 50	STEROIDS			12	1
Male		COUGH AND/OR COLD PREPARATIONS			11	
Male		ANTIFUNGAL AGENTS			10	
Male		ANTIMIGRAINE PREPARATIONS			7	0
Male	Under 50	CONTRACEPTIVES,ORAL			5	0
			SEROTONIN SPECIFIC			
Male		CONTRACEPTIVES,ORAL	REUPTAKE INHIBITOR (SSRIS)		1	0
Male		LIPOTROPICS			45	
Male	50+	HYPOTENSIVES, ACE INHIBITORS			34	
Male	50+	ANALGESICS,NARCOTICS			31	8
		NSAIDS, CYCLOOXYGENASE INHIBITOR				
Male	50+	- TYPE			31	8
Male	50+	GASTRIC ACID SECRETION REDUCERS			27	7
iviale	JUT	SEROTONIN SPECIFIC REUPTAKE				'
Male	50+	INHIBITOR (SSRIS)			17	5
iviale	JUT	in indirect (cords)			17	3
Male	50+	CALCIUM CHANNEL BLOCKING AGENTS			16	4
Male	50+	ANTIHISTAMINES			13	
Male	50+	BETA-ADRENERGIC BLOCKING AGENTS			12	3
		TOPICAL ANTI-INFLAMMATORY				
Male	50+	STEROIDAL			11	3
			NSAIDS, CYCLOOXYGENASE			
Male	50+	ANALGESICS,NARCOTICS	INHIBITOR - TYPE		8	
Male	50+	ANALGESICS,NARCOTICS	PENICILLINS		8	

Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age					
Gender	Group	Drug Class 1	Drug Class 2	Drug Class 3	N	PCTN
Male		MACROLIDES			8	2
Male	50+	ANTI-ANXIETY DRUGS			7	2
Male	50+	ANTICONVULSANTS			7	2
Male	50+	GLUCOCORTICOIDS			7	2
Male	50+	INSULINS			7	2
		NASAL ANTI-INFLAMMATORY				
Male	50+	STEROIDS	ANTIHISTAMINES		6	2 2
Male	50+	PENICILLINS			6	
Male	50+	TETRACYCLINES			6	2
Male	50+	THYROID HORMONES			6	2
		NASAL ANTI-INFLAMMATORY				
Male	50+	STEROIDS			5	1
Male	50+	OPHTHALMIC ANTIBIOTICS			5	1
Male	50+	SKELETAL MUSCLE RELAXANTS			5	1
			SKELETAL MUSCLE	NSAIDS, CYCLOOXYGENASE		
Male	50+	ANALGESICS,NARCOTICS	RELAXANTS	INHIBITOR - TYPE	4	1
Male	50+	ANTIFUNGAL AGENTS			4	1
			NSAIDS, CYCLOOXYGENASE			
Male	50+	SKELETAL MUSCLE RELAXANTS	INHIBITOR - TYPE		4	1
Male	50+	TOPICAL ANTIFUNGALS			4	1
Male	50+	BETA-ADRENERGIC AGENTS			3	1
Male	50+	EXPECTORANTS			3	1
Male	50+	EXPECTORANTS	MACROLIDES		3	1
Male	50+	QUINOLONES			3	1
		SEROTONIN-NOREPINEPHRINE				
Male	50+	REUPTAKE-INHIB (SNRIS)			3	1
Male	50+	COUGH AND/OR COLD PREPARATIONS			2	1
Male	50+	ESTROGENIC AGENTS			2	1
Male	50+	PENICILLINS	ANTIHISTAMINES		2	1
Male	50+	ABSORBABLE SULFONAMIDES			1	0
Male	50+	ANALGESICS,NARCOTICS	SKELETAL MUSCLE		1	0
Male	50+	ANTIMIGRAINE PREPARATIONS			1	0
Male	50+	ANTIVIRALS, GENERAL			1	0

Appendix VII. Nonproprietary Database, Restrict Definition Table 3a. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

Gender	Age Group	Drug Class 1	Drug Class 2	Drug Class 3	N	PCTN
Male	50+	CEPHALOSPORINS - 1ST GENERATION			1	0
Male	50+	EXPECTORANTS	PENICILLINS		1	0

Appendix VII. Nonproprietary Database, Restrict Definition Table 3b. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				
Gender	Group	Drug Class 1	Drug Class 2	Ν	PCTN
Female	Under 50	CONTRACEPTIVES,ORAL	· ·	3,011	31
Female	Under 50	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)		626	7
Female	Under 50	PENICILLINS		551	6
Female	Under 50	PRENATAL VITAMIN PREPARATIONS		494	5
Female	Under 50	ANTIHISTAMINES		391	4
Female	Under 50	THYROID HORMONES		309	3
Female	Under 50	NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE		299	3
Female	Under 50	ANALGESICS,NARCOTICS		293	
Female	Under 50	MACROLIDES		286	
		TETRACYCLINES		192	2
		ESTROGENIC AGENTS		176	
		GASTRIC ACID SECRETION REDUCERS		156	2
Female	Under 50	ABSORBABLE SULFONAMIDES		150	2
		TOPICAL ANTI-INFLAMMATORY STEROIDAL		141	1
		TOPICAL ANTIBIOTICS		134	1
		BETA-ADRENERGIC AGENTS		130	1
		CEPHALOSPORINS - 1ST GENERATION		119	1
		CONTRACEPTIVES,ORAL	SEROTONIN SPECIFIC REUPTAKE INHIBITO	₹ 116	1
		ANALGESICS,NARCOTICS	PENICILLINS	113	
		CONTRACEPTIVES,ORAL	ANTIHISTAMINES	106	
		ANTIMIGRAINE PREPARATIONS		90	
		ANTI-ANXIETY DRUGS		89	
		BETA-ADRENERGIC BLOCKING AGENTS		86	1
		ANTIFUNGAL AGENTS		81	1
		QUINOLONES		81	1
		NASAL ANTI-INFLAMMATORY STEROIDS	ANTIHISTAMINES	79	1
		EXPECTORANTS		77	1
		ANTIVIRALS, GENERAL		76	
		NASAL ANTI-INFLAMMATORY STEROIDS		76	
		ANTICONVULSANTS		75	1
		OPHTHALMIC ANTIBIOTICS		72	1
		EXPECTORANTS	MACROLIDES	71	1
		NOREPINEPHRINE AND DOPAMINE REUPTAKE INHIB (NDRIS)		64	
		GLUCOCORTICOIDS		63	
		HYPOTENSIVES, ACE INHIBITORS		63	
Female	Under 50	ANALGESICS,NARCOTICS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	[′] 60	1

Table 3b. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				
Gender	Group	Drug Class 1	Drug Class 2	Ν	PCTN
Female	Under 50	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB		56	1
Female	Under 50	TOPICAL ANTIFUNGALS		53	1
Female	Under 50	VITAMIN A DERIVATIVES		52	1
Female	Under 50	SKELETAL MUSCLE RELAXANTS		50	1
Female	Under 50	CEPHALOSPORINS - 2ND GENERATION		49	1
Female	Under 50	VITAMIN A DERIVATIVES	TETRACYCLINES	49	1
Female	Under 50	BETA-ADRENERGIC AGENTS	GLUCOCORTICOIDS	47	0
Female	Under 50	CALCIUM CHANNEL BLOCKING AGENTS		45	0
Female	Under 50	EXPECTORANTS	PENICILLINS	45	0
Female	Under 50	PENICILLINS	ANTIHISTAMINES	44	0
Female		LIPOTROPICS		41	0
Female	Under 50	SKELETAL MUSCLE RELAXANTS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	35	0
Female	Under 50	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE		25	0
Female	Under 50	ESTROGENIC AGENTS	PROGESTATIONAL AGENTS	24	0
Female	50+	ESTROGENIC AGENTS		417	32
Female	50+	THYROID HORMONES		79	6
Female	50+	ESTROGENIC AGENTS	PROGESTATIONAL AGENTS	73	6
Female	50+	NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE		68	5
Female	50+	HYPOTENSIVES, ACE INHIBITORS		59	
Female	50+	LIPOTROPICS		56	
Female	50+	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)		56	4
Female	50+	BETA-ADRENERGIC BLOCKING AGENTS		51	4
Female	50+	ANTIHISTAMINES		46	
		PENICILLINS		35	
Female	50+	CALCIUM CHANNEL BLOCKING AGENTS		33	3
Female	50+	GASTRIC ACID SECRETION REDUCERS		32	2
	50+	ANALGESICS,NARCOTICS		26	2
Female	50+	ANTI-ANXIETY DRUGS		18	1
Female	50+	ANTIMIGRAINE PREPARATIONS		17	1
Female	50+	QUINOLONES		17	1
Female	50+	MACROLIDES		16	1
		NASAL ANTI-INFLAMMATORY STEROIDS		16	1
	50+	CONTRACEPTIVES,ORAL		14	1
Female	50+	TOPICAL ANTI-INFLAMMATORY STEROIDAL		14	1
Female	50+	GLUCOCORTICOIDS		12	1
Female	50+	ANTICONVULSANTS		11	1

Appendix VII. Nonproprietary Database, Restrict Definition Table 3b. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				
Gender	Group	Drug Class 1	Drug Class 2	N	PCTN
	50+	ABSORBABLE SULFONAMIDES		9	1
	50+	BETA-ADRENERGIC AGENTS		9	1
Female	50+	SKELETAL MUSCLE RELAXANTS		9	1
	50+	CEPHALOSPORINS - 1ST GENERATION		8	1
Female	50+	EXPECTORANTS	MACROLIDES	8	1
Female	50+	NASAL ANTI-INFLAMMATORY STEROIDS	ANTIHISTAMINES	8	1
Female	50+	BETA-ADRENERGIC AGENTS	GLUCOCORTICOIDS	7	1
Female	50+	ANALGESICS,NARCOTICS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	´ 6	0
Female	50+	OPHTHALMIC ANTIBIOTICS		6	0
Female	50+	TOPICAL ANTIFUNGALS		6	0
Female	50+	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB		6	0
Female	50+	EXPECTORANTS		5	0
Female	50+	NOREPINEPHRINE AND DOPAMINE REUPTAKE INHIB (NDRIS)		5	0
Female	50+	TOPICAL ANTIBIOTICS		5	0
Female	50+	ANTIFUNGAL AGENTS		4	0
Female	50+	PENICILLINS	ANTIHISTAMINES	4	0
Female	50+	SKELETAL MUSCLE RELAXANTS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	´ 4	0
Female	50+	TETRACYCLINES		4	0
Female	50+	ANTIVIRALS, GENERAL		3	0
Female	50+	CEPHALOSPORINS - 2ND GENERATION		3	0
Female	50+	CONTRACEPTIVES,ORAL	ANTIHISTAMINES	3	0
Female	50+	ANALGESICS,NARCOTICS	PENICILLINS	2	0
Female	50+	EXPECTORANTS	PENICILLINS	2	0
Female	50+	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE		1	0
Male	Under 50	PENICILLINS		451	8
Male	Under 50	ANTIHISTAMINES		377	7
Male	Under 50	ANALGESICS,NARCOTICS		325	6
Male	Under 50	NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE		302	6
Male	Under 50	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)		282	5
		GASTRIC ACID SECRETION REDUCERS		270	5
Male	Under 50	TETRACYCLINES		262	5
		MACROLIDES		236	
		LIPOTROPICS		182	
		BETA-ADRENERGIC AGENTS		174	
Male		ANTICONVULSANTS		151	3
Male		TOPICAL ANTI-INFLAMMATORY STEROIDAL		138	

Table 3b. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				
Gender	Group	Drug Class 1	Drug Class 2	Ν	PCTN
Male	Under 50	HYPOTENSIVES, ACE INHIBITORS		123	2
Male	Under 50	CEPHALOSPORINS - 1ST GENERATION		122	2
Male	Under 50	NASAL ANTI-INFLAMMATORY STEROIDS		107	2
Male	Under 50	ANALGESICS,NARCOTICS	PENICILLINS	104	2
Male	Under 50	TOPICAL ANTIBIOTICS		96	2
Male	Under 50	BETA-ADRENERGIC BLOCKING AGENTS		95	2
Male	Under 50	TOPICAL ANTIFUNGALS		94	2
Male	Under 50	THYROID HORMONES		90	2
Male	Under 50	NASAL ANTI-INFLAMMATORY STEROIDS	ANTIHISTAMINES	88	2
Male	Under 50	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE		87	2
Male	Under 50	GLUCOCORTICOIDS		79	1
Male	Under 50	NOREPINEPHRINE AND DOPAMINE REUPTAKE INHIB (NDRIS)		78	1
Male	Under 50	VITAMIN A DERIVATIVES	TETRACYCLINES	73	1
Male	Under 50	ANTIVIRALS, GENERAL		72	1
Male	Under 50	ANALGESICS,NARCOTICS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	70	1
Male	Under 50	EXPECTORANTS	MACROLIDES	68	1
Male	Under 50	ABSORBABLE SULFONAMIDES		66	1
Male	Under 50	OPHTHALMIC ANTIBIOTICS		66	1
Male	Under 50	QUINOLONES		64	1
Male	Under 50	CALCIUM CHANNEL BLOCKING AGENTS		59	1
Male	Under 50	EXPECTORANTS		55	1
Male	Under 50	BETA-ADRENERGIC AGENTS	GLUCOCORTICOIDS	50	1
Male		VITAMIN A DERIVATIVES		49	1
Male	Under 50	ANTIMIGRAINE PREPARATIONS		47	1
Male	Under 50	SKELETAL MUSCLE RELAXANTS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	45	1
Male	Under 50	ANTI-ANXIETY DRUGS		42	1
Male	Under 50	CONTRACEPTIVES,ORAL		41	1
Male	Under 50	PENICILLINS	ANTIHISTAMINES	39	1
Male	Under 50	EXPECTORANTS	PENICILLINS	38	1
Male		ANTIFUNGAL AGENTS		37	1
Male	Under 50	CEPHALOSPORINS - 2ND GENERATION		35	1
Male	Under 50	SKELETAL MUSCLE RELAXANTS		30	1
Male	Under 50	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB		28	1
Male	Under 50	PRENATAL VITAMIN PREPARATIONS		10	0
Male	Under 50	ESTROGENIC AGENTS		4	0
Male	Under 50	CONTRACEPTIVES,ORAL	ANTIHISTAMINES	2	0

Table 3b. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				
Gender	Group	Drug Class 1	Drug Class 2	N	PCTN
		CONTRACEPTIVES,ORAL	SEROTONIN SPECIFIC REUPTAKE INHIBITO		
Male	50+	LIPOTROPICS		169	
Male	50+	HYPOTENSIVES, ACE INHIBITORS		107	
Male	50+	GASTRIC ACID SECRETION REDUCERS		79	
Male	50+	NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE		71	7
Male	50+	BETA-ADRENERGIC BLOCKING AGENTS		69	
Male	50+	CALCIUM CHANNEL BLOCKING AGENTS		55	
Male	50+	PENICILLINS		45	
Male	50+	ANALGESICS,NARCOTICS		35	
Male	50+	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)		34	
Male	50+	TOPICAL ANTI-INFLAMMATORY STEROIDAL		31	3
Male	50+	THYROID HORMONES		30	3
Male	50+	ANTIHISTAMINES		28	3
Male	50+	TOPICAL ANTIFUNGALS		19	2
Male	50+	MACROLIDES		18	2
Male	50+	NASAL ANTI-INFLAMMATORY STEROIDS		17	2
Male	50+	ANTICONVULSANTS		16	2
Male	50+	BETA-ADRENERGIC AGENTS		16	2
Male	50+	ANTI-ANXIETY DRUGS		14	1
Male	50+	CEPHALOSPORINS - 1ST GENERATION		13	1
Male	50+	QUINOLONES		13	1
Male	50+	ANALGESICS,NARCOTICS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	12	1
Male	50+	ANALGESICS,NARCOTICS	PENICILLINS	11	1
Male	50+	EXPECTORANTS		10	1
Male	50+	EXPECTORANTS	MACROLIDES	10	1
Male	50+	GLUCOCORTICOIDS		10	1
Male	50+	NOREPINEPHRINE AND DOPAMINE REUPTAKE INHIB (NDRIS)		10	1
Male	50+	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB		10	1
Male	50+	ABSORBABLE SULFONAMIDES		9	1
Male	50+	BETA-ADRENERGIC AGENTS	GLUCOCORTICOIDS	9	1
Male	50+	TETRACYCLINES		9	1
Male	50+	SKELETAL MUSCLE RELAXANTS	NSAIDS, CYCLOOXYGENASE INHIBITOR - TY	8	1
Male	50+	ANTIFUNGAL AGENTS		7	1
Male	50+	ANTIVIRALS, GENERAL		7	1
Male	50+	ESTROGENIC AGENTS		5	0
Male	50+	PENICILLINS	ANTIHISTAMINES	5	0

Appendix VII. Nonproprietary Database, Restrict Definition Table 3b. Number of Patients by Gender, Age Group, and Specific Combinations of Drug Classes

	Age				
Gender	Group	Drug Class 1	Drug Class 2	N	PCTN
Male	50+	CEPHALOSPORINS - 2ND GENERATION		3	0
Male	50+	NASAL ANTI-INFLAMMATORY STEROIDS	ANTIHISTAMINES	3	0
Male	50+	OPHTHALMIC ANTIBIOTICS		3	0
Male	50+	SKELETAL MUSCLE RELAXANTS		3	0
Male	50+	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE		2	0
Male	50+	ANTIMIGRAINE PREPARATIONS		2	. 0
Male	50+	ESTROGENIC AGENTS	PROGESTATIONAL AGENTS	2	. 0
Male	50+	EXPECTORANTS	PENICILLINS	2	. 0
Male	50+	CONTRACEPTIVES,ORAL		1	0
Male	50+	TOPICAL ANTIBIOTICS		1	0

Table 4a. Number of Patients by Age, Gender, and Number of Driver Impairing Medications Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Potential						
Under 50	Impairing Medications						
	0	9,244	60	8,966	70	18,210	65
	1	2,872	19	2,015	16	4,887	17
	2	1,555	10	933	7	2,488	9
	3	791	5	411	3	1,202	4
	4	435	3	191	2	626	2
	5	237	2	107	1	344	1
	6	143	1	48	0	191	1
	7	89	1	20	0	109	0
	8	48	0	14	0	62	0
	9	23	0	11	0	34	0
	10	17	0	6	0	23	0
	11	11	0	4	0	15	0
	12	7	0	1	0	8	0
	13	4	0	1	0	5	0
	14	1	0			1	0
	18	1	0			1	0
	19	1	0			1	0
	All	15,479	100	12,728	100	28,207	100
50+	Number of Potential Impairing Medications						
	0	922	32	1,019	40	1,941	36
	1	556	20	515	20	1,071	20
	2	441	16	353	14	794	15

Table 4a. Number of Patients by Age, Gender, and Number of Driver Impairing Medications Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bo1	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group 50+	Number of Potential Impairing Medications						
	3	333	12	244	10	577	11
	4	221	8	159	6	380	7
	5	149	5	110	4	259	5
	6	77	3	62	2	139	3
	7	63	2	43	2	106	2
	8	25	1	26	1	51	1
	9	24	1	12	0	36	1
	10	13	0	8	0	21	0
	11	6	0	4	0	10	0
	12	5	0			5	0
	13	3	0			3	0
	14	3	0			3	0
	15	1	0			1	0
	18			1	0	1	0
	All	2,842	100	2,556	100	5,398	100
All Age	Number of Potential Impairing Medications						
	0	10,166	55	9,985	65	20,151	60
	1	3,428	19	2,530	17	5,958	18
	2	1,996	11	1,286	8	3,282	10
	3	1,124	6	655	4	1,779	5
	4	656	4	350	2	1,006	3
	5	386	2	217	1	603	2

Table 4a. Number of Patients by Age, Gender, and Number of Driver Impairing Medications Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Potential Impairing Medications						
	6	220	1	110	1	330	1
	7	152	1	63	0	215	1
	8	73	0	40	0	113	0
	9	47	0	23	0	70	0
	10	30	0	14	0	44	0
	11	17	0	8	0	25	0
	12	12	0	1	0	13	0
	13	7	0	1	0	8	0
	14	4	0			4	0
	15	1	0			1	0
	18	1	0	1	0	2	0
	19	1	0			1	0
	All	18,321	100	15,284	100	33,605	100

Table 4b. Number of Patients by Age, Gender, and Number of Driver Impairing Medications Control Group

			Gen	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Potential						
Under 50	Impairing Medications						
	0	34,107	73	29,833	78	63,940	76
	1	7,432	16	5,270	14	12,702	15
	2	2,858	6	1,834	5	4,692	6
	3	1,134	2	754	2	1,888	2
	4	471	1	258	1	729	1
	5	218	0	135	0	353	C
	6	114	0	52	0	166	C
	7	59	0	27	0	86	C
	8	18	0	12	0	30	C
	9	15	0	6	0	21	C
	10	3	0	1	0	4	C
	11	5	0	1	0	6	C
	12	1	0	1	0	2	C
	13	2	0			2	C
	All	46,437	100	38,184	100	84,621	100
50+	Number of Potential Impairing Medications						
	0	3,755	44	3,617	47	7,372	46
	1	1,720	20	1,513	20	3,233	20
	2	1,204	14	1,068	14	2,272	14
	3	783	9	622	8	1,405	g
	4	424	5	382	5	806	5
	5	267	3	210	3	477	3

Table 4b. Number of Patients by Age, Gender, and Number of Driver Impairing Medications Control Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group 50+	Number of Potential Impairing Medications						
	6	151	2	114	1	265	2
	7	100	1	70	1	170	
	8	51	1	38	0	89	
	9	34	0	17	0	51	(
	10	20	0	4	0	24	(
	11	12	0	6	0	18	(
	12	3	0	4	0	7	(
	13	1	0	1	0	2	(
	15	1	0	1	0	2	(
	18			1	0	1	(
	All	8,526	100	7,668	100	16,194	100
All Age	Number of Potential Impairing Medications						
	0	37,862	69	33,450	73	71,312	7
	1	9,152	17	6,783	15	15,935	16
	2	4,062	7	2,902	6	6,964	-
	3	1,917	3	1,376	3	3,293	;
	4	895	2	640	1	1,535	2
	5	485	1	345	1	830	
	6	265	0	166	0	431	(
	7	159	0	97	0	256	(
	8	69	0	50	0	119	(
	9	49	0	23	0	72	(

Table 4b. Number of Patients by Age, Gender, and Number of Driver Impairing Medications Control Group

			Gend	der				
		Fema	ale	Mal	Le	Bot	Both	
		N	PCTN	N	PCTN	N	PCTN	
All Age	Number of Potential Impairing Medications							
	10	23	0	5	0	28	0	
	11	17	0	7	0	24	0	
	12	4	0	5	0	9	0	
	13	3	0	1	0	4	0	
	15	1	0	1	0	2	0	
	18			1	0	1	0	
	All	54,963	100	45,852	100	100815	100	

Table 5a. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Case Group

			Gend	der			
		Fema	ale	Ma]	Le	Bot	h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Drug — Drug Conflicts						
Under 50	0	13,900	90	11,992	94	25,892	92
	1	833	5	452	4	1,285	ţ
	2	274	2	120	1	394	
	3	192	1	68	1	260	•
	4	80	1	27	0	107	(
	5	61	0	20	0	81	(
	6	42	0	16	0	58	(
	7	24	0	10	0	34	(
	8	16	0	5	0	21	
	9	13	0	5	0	18	
	10	10	0	2	0	12	
	11	6	0	2	0	8	(
	12	7	0	1	0	8	
	13	3	0			3	(
	14			1	0	1	(
	15	5	0	1	0	6	
	16	2	0	2	0	4	(
	17	2	0			2	(
	18	1	0	2	0	3	(
	19	4	0			4	(
	21			1	0	1	(
	23	2	0	1	0	3	(
	24	1	0			1	
	50	1	0			1	(
	All	15,479	100	12,728	100	28,207	10

Table 5a. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Drug Drug Conflicts						
50+	0	2,126	75	2,000	78	4,126	76
	1	365	13	280	11	645	12
	2	119	4	77	3	196	4
	3	79	3	78	3	157	3
	4	33	1	35	1	68	1
	5	22	1	24	1	46	1
	6	25	1	20	1	45	1
	7	16	1	9	0	25	0
	8	10	0	10	0	20	0
	9	16	1	6	0	22	0
	10	6	0	3	0	9	0
	11	8	0	6	0	14	C
	12	1	0	3	0	4	C
	13	3	0	2	0	5	0
	14	5	0	1	0	6	C
	17	3	0			3	0
	19	1	0			1	C
	22	1	0			1	0
	23	1	0	1	0	2	0
	24	1	0			1	0
	27	1	0			1	0
	31			1	0	1	0
	All	2,842	100	2,556	100	5,398	100

Table 5a. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Case Group

			Gend	der			
		Fema	ale	Ma]	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Drug Drug Conflicts						
	0	16,026	87	13,992	92	30,018	89
	1	1,198	7	732	5	1,930	6
	2	393	2	197	1	590	2
	3	271	1	146	1	417	1
	4	113	1	62	0	175	1
	5	83	0	44	0	127	(
	6	67	0	36	0	103	(
	7	40	0	19	0	59	(
	8	26	0	15	0	41	(
	9	29	0	11	0	40	(
	10	16	0	5	0	21	(
	11	14	0	8	0	22	(
	12	8	0	4	0	12	(
	13	6	0	2	0	8	(
	14	5	0	2	0	7	(
	15	5	0	1	0	6	(
	16	2	0	2	0	4	(
	17	5	0			5	(
	18	1	0	2	0	3	(
	19	5	0			5	(
	21			1	0	1	(
	22	1	0			1	(
	23	3	0	2	0	5	(
	24	2	0			2	(
	27	1	0		<u> </u>	1	(

Table 5a. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Case Group

		Gender					
		Female Male		Both			
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Drug Drug Conflicts						
	31			1	0	1	0
	50	1	0			1	0
	All	18,321	100	15,284	100	33,605	100

Table 5b. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Control Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Drug Drug Conflicts						
Under 50	0	44,354	96	36,901	97	81,255	96
	1	1,363	3	869	2	2,232	3
	2	331	1	191	1	522	1
	3	212	0	113	0	325	0
	4	77	0	38	0	115	0
	5	34	0	18	0	52	0
	6	22	0	25	0	47	0
	7	19	0	8	0	27	0
	8	7	0	8	0	15	0
	9	4	0	5	0	9	0
	10	4	0			4	0
	11	2	0	1	0	3	0
	12	3	0	1	0	4	0
	13			3	0	3	0
	15	1	0			1	0
	16			2	0	2	0
	17	1	0			1	0
	18	2	0			2	0
	29	1	0			1	0
	33			1	0	1	0
	All	46,437	100	38,184	100	84,621	100
50+	Number of Drug Drug Conflicts						
	0	7,124	84	6,424	84	13,548	84
	1	749	9	667	9	1,416	9

Table 5b. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Control Group

			Gend	ler			
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Drug Drug Conflicts						
50+	2	263	3	204	3	467	3
	3	161	2	149	2	310	2
	4	57	1	66	1	123	1
	5	42	0	46	1	88	1
	6	45	1	42	1	87	1
	7	20	0	13	0	33	C
	8	21	0	13	0	34	C
	9	9	0	8	0	17	(
	10	10	0	7	0	17	(
	11	7	0	7	0	14	(
	12	3	0	4	0	7	(
	13	3	0	6	0	9	(
	14	6	0			6	(
	15	1	0	4	0	5	(
	16			2	0	2	(
	17	2	0	1	0	3	(
	18	1	0	1	0	2	(
	19	1	0			1	(
	20			2	0	2	(
	22			1	0	1	(
	25	1	0			1	(
	32			1	0	1	(
	All	8,526	100	7,668	100	16,194	100

Table 5b. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Control Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Drug Drug Conflicts						
	0	51,478	94	43,325	94	94,803	94
	1	2,112	4	1,536	3	3,648	4
	2	594	1	395	1	989	1
	3	373	1	262	1	635	1
	4	134	0	104	0	238	C
	5	76	0	64	0	140	C
	6	67	0	67	0	134	C
	7	39	0	21	0	60	C
	8	28	0	21	0	49	C
	9	13	0	13	0	26	(
	10	14	0	7	0	21	(
	11	9	0	8	0	17	(
	12	6	0	5	0	11	(
	13	3	0	9	0	12	(
	14	6	0			6	(
	15	2	0	4	0	6	(
	16			4	0	4	(
	17	3	0	1	0	4	(
	18	3	0	1	0	4	(
	19	1	0			1	(
	20			2	0	2	(
	22			1	0	1	(
	25	1	0			1	(
	29	1	0			1	(
	32			1	0	1	(

Table 5b. Number of Patients by Age, Gender, and Number of Drug-Drug Conflicts Control Group

		Gend	der				
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N PCTN	
All Age	Number of Drug Drug Conflicts						
	33			1	0	1	0
	All	54,963	100	45,852	100	100815	100

	Age		
Gender	-	Disease Group	N
		HYPERSENSITIVITY REACTIONS	1,815
		RESPIRATORY INFECTIONS	1,620
		FRACTURES AND INJURIES	1,453
		PREGNANCY	902
		DEPRESSION	868
		PSYCHOSES, DRUG INDUCED	758
		DIARRHEA, GASTROENTERITIS	655
	Under 50	·	533
	Under 50		468
		ORAL CONTRACEPTION	442
		ABDOMINAL PAIN	390
		LACTIC ACIDOSIS SYMPTOMS	346
	Under 50		316
		SYMPTOMS OF DIG-TOXICITY	294
		CARDIOVASCULAR DISEASE	285
		ABNL PREG TERMINATED OR DELIV	
		ANXIETY DISORDERS	269 261
		HYPERTENSION	
			261
		SYMPTOMS OF GI IRRITATION	246
		COND- REYE SYNDROME RELATED	236
		THYROID DISEASE	228
		HEMATOLOGIC DISORDERS	214
		DIABETES MELLITUS I AND II	188
		TUBERCULOSIS	186
	Under 50		181
		LIPID ABNORMALITIES	178
	Under 50		176
	Under 50		174
		CONTRACEPTION- IMPLANTS	164
	Under 50		148
		CONTRACEPTION- INJECTION (D)	146
		CHRONIC OTITIS MEDIA	144
		PANCYTOPENIA	136
		ANEMIAS, OTHER	123
		NORMAL PREG TERMINATED	122
		NORMAL PREGNANCT TERMINATED	122
		GI HEMORRHAGE	107
		ANAPHYLACTIC SHOCK	100
		HEAD TRAUMA	98
	Under 50	HEPATIC DYSFUNCTION	98
	Under 50	BLEEDING	96
	Under 50		95
		VIRAL ILLNESSES	91
		MILD FUNGAL INFECTIONS	86
		BIPOLAR DISORDER	85
	Under 50		81
	Under 50	DIARRHEA	78
Female	Under 50	GASTRITIS	74
Female	Under 50	HEPATITIS	73
Female	Under 50	HEMATURIA	68

	Age		
Gender	_	Disease Group	l N
		ALCOHOLISM	67
		ARRHYTHMIAS	64
	Under 50		55
	Under 50		51
		ANKYLOSING SPONDYLITIS	49
		ANEMIA,DEF.FE,OTH	48
		COLON, IRRITABLE	47
		ACUTE OTITIS MEDIA	45
		BRONCHOPNEUMONIA	45
		PANIC DISORDERS	44
		PERSONALITY DISORDERS	42
		ARTHRITIS, RHEUMATOID	39
		DEHYDRATION	39
		DERMATITIS,MACULOPAPULAR	39
		VOLUME DEPLETION	39
		LYMPHADENOPATHY	38
		SYMPTOMS OF QUINIDINE-TOXICITY	37
	Under 50		36
		KIDNEY STONES	36
		HYPERTHYROIDISM	35
		ABUSE- DRUG PERIPHERAL NEUROPATHY	34
			34
		STRESS DISORDERS	34
		PREG TERMINATION- CHEMICAL	33
		SUICIDAL BEHAVIOR	33
		EPILEPSY	31
		PLEURAL EFFUSION-D	29
		ARTHRITIS, OSTEOARTHRITIS	28
		CHOLELITHIASIS	28
		GALLSTONES	28
		CNS DEMYELINATING DIS	26
		DYSKINESIAS	26
		GI ULCER	26
		HEMATEMESIS	25
		DEEP VEIN THROMBOSIS	24
	Under 50		22
		CONGESTIVE HEART FAILURE	21
		RENAL DISEASE	21
		PSYCHOSES	20
		PULMONARY DISORDERS	19
		RENAL FAILURE-GENERAL	19
		BREAST CANCER, FEMALE	18
		PSORIASIS	18
		PULMONARY FIBROSIS	18
		RENAL FAILURE W/O HTN	18
		ANEURYSM	17
		BLEEDING RISK DIAGNOSIS	17
Female	Under 50	ANGINA, PECTORIS	16
		ISCHEMIC HEART DISEASE	16
Female	Under 50	PULMONARY EDEMA	16

Appendix VII. Nonproprietary Database, Restrict Definition APPENDIX VII. Table 6a. Number of Case Patients by Age, Gender, and Potential Driver Impairing Disease Groups

	٨٥٥		I
Condor	Age	Discaso Group	N
Gender	Group Under 50	Disease Group	16
		OSTEOPOROSIS	15
		ANOREXIA	14
		CROHN'S DISEASE	14
		LEUKOPENIA	14
		PRURITUS	14
		EPISTAXIS	13
		HEMORRHAGIC DISORDERS	13
		SEVERE FUNGAL INFECTIONS	13
		MENOPAUSE	12
		BOWEL OBSTRUCTION	11
		RELATED TO FETAL OUTCOMES	11
			11
	Under 50	STEATORRHEA	
		ALBUMINURIA/ NEPHROPATHY	11
			10
		BRAIN HEMORRHAGE	10
		THROMBOCYTOPENIA	10
		THROMBOPHLEBITIS	10
		URINARY RETENTION	10
	Under 50		9
		COLON POLYPS	9
		EXTRAPYRAMIDAL REACTIONS	9
		HEPATITIS, ALLER CHOLESTATIC	9
		TELANGLECTASIS	9
		AGRANULOCYTOSIS	8
		HEPATIC CIRRHOSIS	8
		HEPATOMEGALY WITH STEATOSIS	8
		HYPOTENSION	8
		MYELOSUPPRESSION	8
		NEUTROPENIA	8
		COAGULATION DEFECTS	7
		ELECTROLYTE DISORDERS	7
		ILEUS, PARALYTIC	7
		MYOCARDIAL ISCHEMIA	7
		NUTRITIONAL/ NEURO DEFICIENCY	7
		OSTEOSARCOMA	7
		PULMONARY EMBOLUS	7
		THROMBOCYTOPENIA, SECONDARY	7
	Under 50		7
		ANGINA, UNSTABLE	6
		APPENDICITIS	6
		ARTHROPATHIES, OTHER	6
	Under 50		6
		DELIRIUM	6
		DEMENTIA	6
		DRUG INDUCED PSYCH DISORDERS	6
		GI OBSTRUCTION	6
		HEMOLYSIS	6
		INTERSTITIAL PNEUMONITIS	6
Female	Under 50	PANCREATITIS	6

	Age		
Gender	Group	Disease Group	N
		PROTEINURIA	6
		VENTRICULAR ARRHYTHMIA	6
		ANGIONEUROTIC EDEMA	5
		COLON LESIONS	5
		GLAUCOMA	5
		HEMOLYTIC ANEMIA, HERED	5
		HYPERSECRETORY STATES	5
		NEUROPATHIES	5
		ATRIAL FIBRILLATION	4
		BRADYCARDIA	4
		CHOLESTATIC JAUNDICE	4
		ENCEPHALOPATHIC SYNDROME	4
		EXFOLIATIVE DERMATITIS	4
		HEMOPTYSIS	4
		INTRA-ABDOMINAL HEMORRHAGE	4
		MALIGNANT NEOPLASM, CNS	4
		NASAL POLYPS	4
		OPTIC NEURITIS	4
		PRERENAL AZOTEMIA	4
		PSEUDOTUMOR CEREBRI	4
		PULMONARY EMBOLUS, PREVIOUS	4
Female	Under 50	ALCOHOLIC LIVER DISEASE	3
Female	Under 50	ARTHRITIS, PSORIATIC	3
Female	Under 50	CYSTIC FIBROSIS	3
Female	Under 50	HEART BLOCK	3
Female	Under 50	JAUNDICE	3
Female	Under 50	OBSTRUCTIVE UROPATHY	3
Female	Under 50	RENAL CALCIFICATION	3
Female	Under 50	ADDISON'S DISEASE	2
Female	Under 50	ADRENAL INSUFFICIENCY	2
Female	Under 50	ALZHEIMER	2
Female	Under 50	ANEMIA,MEGALOBLASTIC	
Female	Under 50	BLOOD DYSCRASIAS	2
Female	Under 50	CEREBRAL PALSY	2
Female	Under 50	COLOSTOMY/ ILEOSTOMY	2
		CRYSTALLURIA	2
Female	Under 50	ERYTHEMA MULTIFORME	2
	Under 50		2
		KETOACIDOSIS	
		MYASTHENIA GRAVIS	2
		PSEUDOMEMBRANOUS COLITIS	2
		RHABDOMYOLYSIS	2
Female	Under 50		2
	Under 50		2
		ALVEOLITIS, FIBROSING	1
	Under 50	· · · · · · · · · · · · · · · · · · ·	1
		AV BLOCK II TO III	1
		BULLOUS RASH	1
		CEREBRAL ARTERIOSCLEROSIS	1
Female	Under 50		1
remale	Under 50	CIIXIXI IUGIG	ı

Age Gender Group Disease Group Female Under 50 FAVISM Female Under 50 G6PD Female Under 50 G6PD DEFICIENCY Female Under 50 GLAUCOMA,NARROW ANGLE	N 1 1 1 1 1 1 1 1
Female Under 50 FAVISM Female Under 50 G6PD Female Under 50 G6PD DEFICIENCY Female Under 50 GLAUCOMA,NARROW ANGLE	1 1 1
Female Under 50 G6PD Female Under 50 G6PD DEFICIENCY Female Under 50 GLAUCOMA,NARROW ANGLE	1 1 1
Female Under 50 G6PD DEFICIENCY Female Under 50 GLAUCOMA,NARROW ANGLE	1
Female Under 50 GLAUCOMA, NARROW ANGLE	1
l '	
Female Under 50 HALLUCINATIONS	
Female Under 50 HEMOLYTIC ANEMIA, ACQ	1
Female Under 50 HEPATIC FAILURE	1
Female Under 50 HYPERCALCEMIA	1
Female Under 50 HYPERSENSITIVITY PNEUMONITIS	1
Female Under 50 MALIGNANT MELANOMA	1
Female Under 50 MYOPATHY	1
Female Under 50 OLIGURIA	1
Female Under 50 RADIATION THERAPY ICD	1
Female Under 50 RENAL OSTEODYSTROPHY	1
Female Under 50 RETROPERITONEAL FIBROSIS	1
Female Under 50 SUBARACHNOID HEMORRHAGE	1
Female 50+ CARDIOVASCULAR DISEASE	
	383
Female 50+ HYPERTENSION Female 50+ HYPERSENSITIVITY REACTIONS	356
	315
Female 50+ FRACTURES AND INJURIES	297
Female 50+ DIABETES MELLITUS I AND II	212
Female 50+ RESPIRATORY INFECTIONS	202
Female 50+ LIPID ABNORMALITIES	196
Female 50+ DEPRESSION	144
Female 50+ PSYCHOSES, DRUG INDUCED	138
Female 50+ DIARRHEA, GASTROENTERITIS	118
Female 50+ THYROID DISEASE	111
Female 50+ SYMPTOMS OF GI IRRITATION	92
Female 50+ CNS EXCITATION	79
Female 50+ SYMPTOMS OF DIG-TOXICITY	75
Female 50+ TUBERCULOSIS	66
Female 50+ ABDOMINAL PAIN	65
Female 50+ CANCER	64
Female 50+ GERD	62
Female 50+ ASTHMA	61
Female 50+ HEMATOLOGIC DISORDERS	60
Female 50+ LACTIC ACIDOSIS SYMPTOMS	60
Female 50+ COPD	52
Female 50+ HEPATIC DYSFUNCTION	51
Female 50+ ANXIETY DISORDERS	47
Female 50+ OSTEOPOROSIS	43
Female 50+ ARTHRITIS, OSTEOARTHRITIS	42
Female 50+ ISCHEMIC HEART DISEASE	42
Female 50+ MILD FUNGAL INFECTIONS	41
Female 50+ ARRHYTHMIAS	40
Female 50+ HEPATITIS	39
Female 50+ GI HEMORRHAGE	38
Female 50+ COUGH	37
Female 50+ ANKYLOSING SPONDYLITIS	36
Female 50+ BLEEDING	34

	Age		
Gender	Group	Disease Group	N
Female		COND- REYE SYNDROME RELATED	31
Female		CONGESTIVE HEART FAILURE	30
Female		SYMPTOMS OF ERGOTISM	29
Female		ANEMIAS, OTHER	28
Female		PANCYTOPENIA	28
Female		ANAPHYLACTIC SHOCK	27
Female		BREAST CANCER, FEMALE	27
Female		ANEMIA, DEF. FE, OTH	26
Female		OBESITY	25
Female		EDEMA	24
Female		DIARRHEA	23
Female		GASTRITIS	23
Female		BRONCHOPNEUMONIA	21
Female		HEAD TRAUMA	21
Female		PERIPHERAL NEUROPATHY	21
Female		ATRIAL FIBRILLATION	20
Female		ARTHRITIS, RHEUMATOID	19
Female		HIV	19
Female		MENOPAUSE	19
		SYMPTOMS OF QUINIDINE-TOXICITY	19
Female		· ·	
Female		CHRONIC OTITIS MEDIA	18
Female		DEEP VEIN THROMBOSIS	18
Female		COLON POLYPS	17
Female		HEMATURIA	17
Female		VIRAL ILLNESSES	17
Female		GI ULCER	16
Female		SYNCOPE	16
Female		STROKE	15
Female		ANGINA, PECTORIS	14
	50+	RENAL FAILURE-GENERAL	14
Female		ANEURYSM	13
Female		BIPOLAR DISORDER	13
Female		HEMATEMESIS	13
Female		RENAL FAILURE W/O HTN	12
Female		CNS DEMYELINATING DIS	11
Female		GLAUCOMA	11
Female		COLON, IRRITABLE	10
Female		DERMATITIS,MACULOPAPULAR	10
	50+	MYOCARDIAL ISCHEMIA	10
Female		PLEURAL EFFUSION-D	10
Female		RENAL DISEASE	10
Female		ALCOHOLISM	9
	50+	CHOLELITHIASIS	9
	50+	DYSKINESIAS	9
	50+	GALLSTONES	9
Female	50+	LUPUS	9
Female	50+	NUTRITIONAL/ NEURO DEFICIENCY	9
Female	50+	BLEEDING RISK DIAGNOSIS	8
Female	50+	DEMENTIA	8
Female	50+	EXTRAPYRAMIDAL REACTIONS	8

	Age		
Gender	Group	Disease Group	N
Female		ARTHROPATHIES, OTHER	7
Female		DEHYDRATION	7
Female		EPILEPSY	7
Female		HEPATIC CIRRHOSIS	7
Female		HYPERTHYROIDISM	7
Female		KIDNEY STONES	7
Female		PULMONARY EMBOLUS	7
Female		STEATORRHEA	7
Female		STRESS DISORDERS	7
Female		VOLUME DEPLETION	7
Female		ACUTE OTITIS MEDIA	6
Female		ALBUMINURIA/ NEPHROPATHY	6
Female		EPISTAXIS	6
	50+	GOUT	6
Female		KETOACIDOSIS	6
Female		NEUROPATHIES	6
Female		OSTEOSARCOMA	6
Female		PSYCHOSES	6
Female		PULMONARY DISORDERS	6
Female		PULMONARY FIBROSIS	6
Female		VENTRICULAR ARRHYTHMIA	6
Female		ANGINA, UNSTABLE	5
Female		HYPOTENSION	5
Female		INTERSTITIAL PNEUMONITIS	5
Female		PANIC DISORDERS	5
	50+	BRAIN HEMORRHAGE	4
Female		CIRRHOSIS	4
Female		CROHN'S DISEASE	4
Female		ELECTROLYTE DISORDERS	4
	50+	GI OBSTRUCTION	4
	50+	HYPERSECRETORY STATES	4
Female		LEUKOPENIA	4
Female		MYELOSUPPRESSION	4
Female		PSORIASIS	4
Female		PULMONARY EDEMA	4
Female		URINARY RETENTION	4
Female		AGRANULOCYTOSIS	3
Female		BOWEL OBSTRUCTION	3
Female		COAGULATION DEFECTS	
Female		COLOSTOMY/ ILEOSTOMY	3
Female		DELIRIUM	3
Female		HEART BLOCK	3
	50+	HEPATITIS, ALLER CHOLESTATIC	3
	50+	HEPATOMEGALY WITH STEATOSIS	3
	50+	INTRA-ABDOMINAL HEMORRHAGE	3
Female		NEUTROPENIA	3
	50+	PARKINSONISM, PRIMARY	3
	50+ 50+	PERSONALITY DISORDERS	3
	50+	PROTEINURIA	3
	50+ 50+	PRURITUS	3
remale	JUT	FINUNITUO	3

	Age		
Gender		Disease Group	N
Female		RADIATION THERAPY ICD	3
Female		SUICIDAL BEHAVIOR	3
Female		TELANGLECTASIS	
Female		ANEMIA,MEGALOBLASTIC	3 2
	50+	ANGIONEUROTIC EDEMA	2
Female		APLASTIC ANEMIA	2
	50+	BRADYCARDIA	2
Female		COLITIS	2
	50+	CRYSTALLURIA	2
Female		HALLUCINATIONS	2
Female		MALIGNANT NEOPLASM, CNS	2
		*	2
Female		MYELODYSPLASTIC SYNDROME OSTEOMALACIA	2
Female			2
Female		PULMONARY EMBOLUS, PREVIOUS	2
Female		SEVERE FUNGAL INFECTIONS	2
Female		SUBARACHNOID HEMORRHAGE	2
Female		SUICIDE	2
Female		THROMBOPHLEBITIS	2
Female		ADDISON'S DISEASE	1
Female		ADRENAL INSUFFICIENCY	1
Female		ALVEOLITIS, FIBROSING	1
Female		ANOREXIA	1
Female		ARTHRITIS, PSORIATIC	1
Female		AV BLOCK II TO III	1
Female		BLOOD DYSCRASIAS	1
Female		CARDIAC ARREST	1
Female		COLON LESIONS	1
Female		CONTRACEPTION- INJECTION (D)	1
Female		CONTRACEPTIVE MEASURES	1
Female		DRUG INDUCED PSYCH DISORDERS	1
Female		ENCEPHALOPATHIC SYNDROME	1
Female		ERYTHEMA MULTIFORME	1
Female	50+	EXFOLIATIVE DERMATITIS	1
Female		GLAUCOMA,NARROW ANGLE	1
Female		HEMOPTYSIS	1
Female		HEMORRHAGIC DISORDERS	1
Female		HEPATIC FAILURE	1
Female		HYPERCALCEMIA	1
	50+	HYPERSENSITIVITY PNEUMONITIS	1
	50+	ILEUS, PARALYTIC	1
Female	50+	MALIGNANT MELANOMA	1
Female	50+	NASAL POLYPS	1
Female	50+	OPTIC NEURITIS	1
Female	50+	ORAL CONTRACEPTION	1
Female	50+	PANCREATITIS	1
Female	50+	PREGNANCY	1
Female	50+	PRERENAL AZOTEMIA	1
Female	50+	PSEUDOMEMBRANOUS COLITIS	1
Female	50+	RELATED TO FETAL OUTCOMES	1
Female	50+	RHABDOMYOLYSIS	1

Gender Group Disease Group N Female 50+ STEVENS JOHNSON SYNDROME 1 Female 50+ THROMBOCYTOPENIA 1 Female 50+ THROMBOCYTOPENIA, SECONDARY 1 Female 50+ UREMIA 1 Male Under 50 FRACTURES AND INJURIES 1,371 Male Under 50 RESPIRATORY INFECTIONS 828 Male Under 50 RESPIRATORY INFECTIONS 828 Male Under 50 SEROTONIN SYNDROME SYMPTOMS 422 Male Under 50 PSYCHOSES, DRUG INDUCED 320 Male Under 50 DEPRESSION 305 Male Under 50 DEPRESSION 305 Male Under 50 DARRHEA, GASTROENTERITIS 258 Male Under 50 CARDIOVASCULAR DISEASE 251 Male Under 50 DIABETES MELLITUS I AND II 186 Male Under 50 LARDIOVASCULAR DISEASE 251 Male Under 50 </th <th></th> <th>Age</th> <th></th> <th></th>		Age		
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Male Under 50 ACUTE OTITIS MEDIA 44 Male Under 50 DIARRHEA 44 Male Under 50 ANEMIAS, OTHER 43 Male Under 50 BRONCHOPNEUMONIA 42 Male Under 50 PANCYTOPENIA 39 Male Under 50 ISCHEMIC HEART DISEASE 35 Male Under 50 BIPOLAR DISORDER 33 Male Under 50 CANCER 33 Male Under 50 COPD 33				
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Male Under 50 ANEMIAS, OTHER 43 Male Under 50 BRONCHOPNEUMONIA 42 Male Under 50 PANCYTOPENIA 39 Male Under 50 ISCHEMIC HEART DISEASE 35 Male Under 50 BIPOLAR DISORDER 33 Male Under 50 CANCER 33 Male Under 50 COPD 33				
Male Under 50 BRONCHOPNEUMONIA 42 Male Under 50 PANCYTOPENIA 39 Male Under 50 ISCHEMIC HEART DISEASE 35 Male Under 50 BIPOLAR DISORDER 33 Male Under 50 CANCER 33 Male Under 50 COPD 33				
Male Under 50 PANCYTOPENIA 39 Male Under 50 ISCHEMIC HEART DISEASE 35 Male Under 50 BIPOLAR DISORDER 33 Male Under 50 CANCER 33 Male Under 50 COPD 33			•	
MaleUnder 50ISCHEMIC HEART DISEASE35MaleUnder 50BIPOLAR DISORDER33MaleUnder 50CANCER33MaleUnder 50COPD33				
MaleUnder 50BIPOLAR DISORDER33MaleUnder 50CANCER33MaleUnder 50COPD33				
Male Under 50 CANCER 33 Male Under 50 COPD 33				
Male Under 50 COPD 33				

	Age		
Gender	_	Disease Group	N
Male		KIDNEY STONES	31
Male		SYNCOPE	31
Male		ABUSE- DRUG	30
Male		SYMPTOMS OF QUINIDINE-TOXICITY	30
Male		THYROID DISEASE	30
Male	Under 50	GI ULCER	29
Male	Under 50	CONTRACEPTIVE MEASURES	28
Male	Under 50		28
Male		ANEURYSM	25
Male	Under 50	DEEP VEIN THROMBOSIS	25
Male		HEMATEMESIS	25
Male		ARTHRITIS, OSTEOARTHRITIS	24
Male		ANKYLOSING SPONDYLITIS	23
Male	Under 50		23
Male	Under 50		22
Male		PANIC DISORDERS	21
Male		EPILEPSY	20
Male		PERIPHERAL NEUROPATHY	20
Male		BRAIN HEMORRHAGE	19
Male		DEHYDRATION	19
Male		RENAL DISEASE	19
Male		VOLUME DEPLETION	19
Male		ANGINA, PECTORIS	16
Male	Under 50	CONGESTIVE HEART FAILURE	16
Male	Under 50	HIV	16
Male		PULMONARY DISORDERS	16
Male		RENAL FAILURE W/O HTN	16
Male		RENAL FAILURE-GENERAL	16
Male		STRESS DISORDERS	16
Male	Under 50		15
Male		PULMONARY FIBROSIS	15
Male	Under 50		14
Male	Under 50		13
Male	Under 50		13
Male		BLEEDING RISK DIAGNOSIS	12
Male		DERMATITIS,MACULOPAPULAR	12
Male		EPISTAXIS	12
Male		HEPATITIS, ALLER CHOLESTATIC	12
Male	Under 50	MYOCARDIAL ISCHEMIA	12
Male	Under 50	PSYCHOSES	12
Male Male		ANEMIA,DEF.FE,OTH ARTHRITIS, RHEUMATOID	11 11
		,	
Male	Under 50		11
Male	Under 50	. ,	11
Male		EXTRAPYRAMIDAL REACTIONS	11
Male	Under 50		10
Male	Under 50	COLON IDDITABLE	10
Male	Under 50		10
Male		LYMPHADENOPATHY	10
Male	Under 50	PULMONARY EMBOLUS	10

	Λαο		I
Gender	Age	Discoso Group	N
Male	Group Under 50	Disease Group	10
Male		ALBUMINURIA/ NEPHROPATHY	9
Male		ARTHROPATHIES, OTHER	9
Male		ATRIAL FIBRILLATION	9
Male		PULMONARY EDEMA	9
Male		COAGULATION DEFECTS	8
Male		HEPATIC CIRRHOSIS	8
Male		HYPOTENSION	8
Male		PSORIASIS	8
Male		APPENDICITIS	7
Male		NUTRITIONAL/ NEURO DEFICIENCY	7
			7
Male Male		PERSONALITY DISORDERS	7
		SUICIDAL BEHAVIOR	7
Male		VENTRICULAR ARRHYTHMIA	
Male		CHOLELITHIASIS	6
Male		CROHN'S DISEASE	6
Male		GALLSTONES	6
Male		GI OBSTRUCTION	6
Male		HEMOLYSIS	6
Male		HEMOLYTIC ANEMIA, HERED	6
Male		INTRA-ABDOMINAL HEMORRHAGE	6
Male		STEATORRHEA	6
Male		BRADYCARDIA	5
Male		CNS DEMYELINATING DIS	5
Male		DRUG INDUCED PSYCH DISORDERS	5
Male		HEMOPTYSIS	5
Male		HEMORRHAGIC DISORDERS	5
Male		HEPATOMEGALY WITH STEATOSIS	5
Male		NEUROPATHIES	5
Male		PANCREATITIS	5
Male		SUBARACHNOID HEMORRHAGE	5
Male		ALCOHOLIC LIVER DISEASE	4
Male		BOWEL OBSTRUCTION	4
Male		DEMENTIA	4
Male		INTERSTITIAL PNEUMONITIS	4
Male		MYELOSUPPRESSION	4
Male		NASAL POLYPS	4
Male		OSTEOSARCOMA	4
Male		PROTEINURIA	4
Male		SICKLE CELL ANEMIA	4
Male		THROMBOPHLEBITIS	4
Male		ADRENAL INSUFFICIENCY	3
Male		APLASTIC ANEMIA	3
Male		CARDIAC ARREST	3
Male		CIRRHOSIS	3
Male		ENCEPHALOPATHIC SYNDROME	3
Male		GLAUCOMA	3
Male		HEART BLOCK	3
Male		HYPERSECRETORY STATES	3
Male	Under 50	HYPERTHYROIDISM	3

	Age		
Gender	_	Disease Group	N
Male		ILEUS, PARALYTIC	3
Male	Under 50		3
Male		MEASLES	3
Male		OSTEOPOROSIS	3
Male		PERICARDIAL DISEASE	3
Male		PERICARDIAL EFFUSION	3
Male		PRURITUS	3
Male		RHABDOMYOLYSIS	3 3 3 3 3 3
Male		THROMBOCYTOPENIA	3
Male	Under 50		3
Male		URINARY RETENTION	3
Male		ADDISON'S DISEASE	2
Male		BLOOD DYSCRASIAS	2
Male		CHOLESTATIC JAUNDICE	2
Male		COLON LESIONS	2
Male		ELECTROLYTE DISORDERS	2
Male		JAUNDICE	2 2
Male		KETOACIDOSIS	
Male		LEUKOPENIA	2
Male		MALIGNANT MELANOMA	2
Male		MYELODYSPLASTIC SYNDROME	2
Male		PRERENAL AZOTEMIA	
Male		PULMONARY EMBOLUS, PREVIOUS	2
Male		RELATED TO FETAL OUTCOMES	2
Male	Under 50		2
Male		TELANGLECTASIS	2
Male		THROMBOCYTOPENIA, SECONDARY	2
Male		AGRANULOCYTOSIS	1
Male		ALVEOLITIS,FIBROSING	1
Male		ALZHEIMER	1
Male		ANGIONEUROTIC EDEMA	1
Male		ANOREXIA	1
Male		AV BLOCK II TO III	1
Male		BENIGN PROSTATIC HYPERTROPHY	1
Male		BLEPHARASPASM	1
Male		BOWEL PERFORATION	1
Male	Under 50		1
Male		CEREBRAL PALSY	1
Male		COLOSTOMY/ ILEOSTOMY	1
Male		CRYSTALLURIA	1
Male		CYSTIC FIBROSIS	1
Male		DELIRIUM	1
Male		EXFOLIATIVE DERMATITIS	1
Male		GLAUCOMA,NARROW ANGLE	1
Male		HALLUCINATIONS	1
Male		MALIGNANT NEOPLASM, CNS	1
Male		MEGACOLON	1
Male		MYOPATHY	1
Male		NEPHROGENIC DIABETES INSIPIDUS	1
Male	Under 50	NEUTROPENIA	1
iviai c	Under 50	INLUTROFENIA	l l

Age Gender Group Disease Group Male Under 50 OPTIC NEURITIS Male Under 50 PARKINSONISM,PRIMARY Male Under 50 PORPHYRIAS	N 1
Male Under 50 OPTIC NEURITIS Male Under 50 PARKINSONISM,PRIMARY	1
Male Under 50 PARKINSONISM,PRIMARY	
, ,	
IIVIAIE TUTIUEL SUTEUKENTKIAS	1
Male Under 50 PROSTATIC HYPERTROPHY	1
Male Under 50 RADIATION THERAPY ICD	1
Male Under 50 RENAL CALCIFICATION	1
Male Under 50 RETROPERITONEAL FIBROSIS	1
Male Under 50 THIAMINE DEFICIENCY	1
Male 50+ CARDIOVASCULAR DISEASE	332
Male 50+ HYPERTENSION	293
Male 50+ HYPERSENSITIVITY REACTIONS	245
Male 50+ FRACTURES AND INJURIES	244
Male 50+ DIABETES MELLITUS I AND II	229
Male 50+ LIPID ABNORMALITIES	214
Male 50+ RESPIRATORY INFECTIONS	157
Male 50+ ISCHEMIC HEART DISEASE	114
Male 50+ DIARRHEA, GASTROENTERITIS	96
Male 50+ PSYCHOSES, DRUG INDUCED	74
Male 50+ SYMPTOMS OF DIG-TOXICITY	74
Male 50+ SYMPTOMS OF GI IRRITATION	72
Male 50+ DEPRESSION	68
Male 50+ COPD	66
Male 50+ ARRHYTHMIAS	62
Male 50+ HEPATIC DYSFUNCTION	56
Male 50+ HEMATOLOGIC DISORDERS	53
Male 50+ ABDOMINAL PAIN	52
Male 50+ CANCER	50
Male 50+ LACTIC ACIDOSIS SYMPTOMS	49
Male 50+ GERD	45
Male 50+ CONGESTIVE HEART FAILURE	43
Male 50+ BLEEDING	40
Male 50+ CNS EXCITATION	39
Male 50+ SYMPTOMS OF ERGOTISM	39
Male 50+ HEPATITIS	36
Male 50+ SYMPTOMS OF QUINIDINE-TOXICI	
Male 50+ COND- REYE SYNDROME RELATE	D 35
Male 50+ TUBERCULOSIS	35
Male 50+ COUGH	34
Male 50+ ATRIAL FIBRILLATION	33
Male 50+ ANXIETY DISORDERS	31
Male 50+ HEAD TRAUMA	30
Male 50+ ASTHMA	29
Male 50+ GI HEMORRHAGE	29
Male 50+ ANGINA, PECTORIS	28
Male 50+ PANCYTOPENIA	28
Male 50+ BRONCHOPNEUMONIA	27
Male 50+ ANEMIAS, OTHER	25
Male 50+ ALCOHOLISM	24
Male 50+ ARTHRITIS, OSTEOARTHRITIS	24
Male 50+ MILD FUNGAL INFECTIONS	24

	Age		
Gender	_	Disease Group	N
Male	50+	ANKYLOSING SPONDYLITIS	23
Male	50+	THYROID DISEASE	23
Male	50+	ANEURYSM	20
Male	50+	COLON POLYPS	20
Male	50+	HEMATURIA	19
Male	50+	STROKE	19
Male	50+	MYOCARDIAL ISCHEMIA	17
Male	50+	SYNCOPE	17
Male	50+	ANAPHYLACTIC SHOCK	16
Male	50+	ANEMIA,DEF.FE,OTH	16
Male	50+	EDEMA	16
Male	50+	GLAUCOMA	16
Male	50+	GI ULCER	15
Male	50+	HEMATEMESIS	15
Male	50+	CHRONIC OTITIS MEDIA	14
Male	50+	DIARRHEA	14
Male	50+	RENAL FAILURE-GENERAL	14
Male	50+	ANGINA, UNSTABLE	13
Male	50+	OBESITY	13
Male	50+	RENAL FAILURE W/O HTN	13
Male	50+	DEEP VEIN THROMBOSIS	12
Male	50+	PLEURAL EFFUSION-D	12
Male	50+	PULMONARY EDEMA	12
Male	50+	VIRAL ILLNESSES	12
	50+	ACUTE OTITIS MEDIA	11
Male	50+	BLEEDING RISK DIAGNOSIS	11
Male Male	50+	KIDNEY STONES	11
Male	50+	NUTRITIONAL/ NEURO DEFICIENCY	11
Male	50+	GASTRITIS	10
Male	50+	BENIGN PROSTATIC HYPERTROPHY	9
Male	50+	HEART BLOCK	9
Male	50+	PROSTATIC HYPERTROPHY	9
			9
Male	50+	VENTRICULAR ARRHYTHMIA	
Male	50+	ALBUMINURIA/ NEPHROPATHY	8
Male	50+	ARTHRITIS, RHEUMATOID	8
Male	50+	CHOLELITHIASIS GALLSTONES	8
Male	50+		8
Male	50+	PSORIASIS	8
Male	50+	RENAL DISEASE	8
Male	50+	COAGULATION DEFECTS	7
Male	50+	DERMATITIS,MACULOPAPULAR	7
Male	50+	GI OBSTRUCTION	7
Male	50+	HEPATIC CIRRHOSIS	7
Male	50+	HYPOTENSION	7
Male	50+	PERIPHERAL NEUROPATHY	7
Male	50+	PSYCHOSES	7
Male	50+	GOUT	6
Male	50+	STEATORRHEA	6
Male	50+	URINARY RETENTION	6
Male	50+	BOWEL OBSTRUCTION	5

	Age		
Gender		Disease Group	N
Male	50+	BRAIN HEMORRHAGE	5
Male	50+	DYSKINESIAS	5
Male	50+	EXTRAPYRAMIDAL REACTIONS	5
Male	50+	HEMORRHAGIC DISORDERS	5
Male	50+	INTERSTITIAL PNEUMONITIS	5
Male	50+	OSTEOPOROSIS	5
Male	50+	PULMONARY DISORDERS	5
Male	50+	PULMONARY FIBROSIS	5
Male	50+	AV BLOCK II TO III	4
Male	50+	BIPOLAR DISORDER	4
Male	50+	DEHYDRATION	4
Male	50+	DELIRIUM	4
Male	50+	EPILEPSY	4
Male	50+	HEPATITIS, ALLER CHOLESTATIC	4
Male	50+	INTRA-ABDOMINAL HEMORRHAGE	4
Male	50+	KETOACIDOSIS	4
Male	50+	UREMIA	4
Male	50+	VOLUME DEPLETION	4
Male	50+	ADDISON'S DISEASE	3
Male	50+	ADRENAL INSUFFICIENCY	3
Male	50+	ARTHRITIS, PSORIATIC	3
Male	50+	CARDIAC ARREST	
Male	50+	CIRRHOSIS	3
Male	50+	COLOSTOMY/ ILEOSTOMY	3
Male	50+	CONTRACEPTIVE MEASURES	3
Male	50+	CROHN'S DISEASE	3
Male	50+	DEMENTIA	3
Male	50+	HEMOLYSIS	3
Male	50+	HYPERSECRETORY STATES	3
Male	50+	HYPERTHYROIDISM	3
Male	50+	ILEUS, PARALYTIC	3
Male	50+	LEUKOPENIA	3
Male	50+	MYELODYSPLASTIC SYNDROME	3
			3
Male	50+	NASAL POLYPS PERSONALITY DISORDERS	
Male Male	50+ 50+	PROTEINURIA	3
	50+	ALCOHOLIC LIVER DISEASE	
Male Male		ANOREXIA	2
	50+		
Male	50+	APLASTIC ANEMIA	2
Male	50+	APPENDICITIS	
Male	50+	BRADYCARDIA	2
Male	50+	COLON, IRRITABLE	2
Male	50+	ELECTROLYTE DISORDERS	2
Male	50+	EPISTAXIS	2
Male	50+	GLAUCOMA,NARROW ANGLE	2
Male	50+	HEMOLYTIC ANEMIA, HERED	2
Male	50+	HEPATOMEGALY WITH STEATOSIS	2
Male	50+	MALIGNANT NEOPLASM, CNS	2
Male	50+	MYELOSUPPRESSION	2
Male	50+	NEUROPATHIES	2

	Age		
Gender	Group	Disease Group	N
Male	50+	PANCREATITIS	2
Male	50+	PANIC DISORDERS	2
Male	50+	PRERENAL AZOTEMIA	2
Male	50+	STRESS DISORDERS	2
Male	50+	TELANGLECTASIS	2
Male	50+	ABUSE- DRUG	1
Male	50+	AGRANULOCYTOSIS	1
Male	50+	ALZHEIMER	1
Male	50+	ANEMIA,MEGALOBLASTIC	1
Male	50+	ANGIONEUROTIC EDEMA	1
Male	50+	ARTHROPATHIES, OTHER	1
Male	50+	BULLOUS RASH	1
Male	50+	CARDIAC VALVE FIBROSIS	1
Male	50+	CEREBRAL PALSY	1
Male	50+	CNS DEMYELINATING DIS	1
Male	50+	COLITIS	1
Male	50+	CRYSTALLURIA	1
Male	50+	ENCEPHALOPATHIC SYNDROME	1
Male	50+	ERYTHEMA MULTIFORME	1
Male	50+	FECAL IMPACTION	1
Male	50+	HEMOLYTIC ANEMIA, ACQ	1
Male	50+	HEMOLYTIC UREMIC SYNDR	1
Male	50+	HEMOPTYSIS	1
Male	50+	HEPATIC FAILURE	1
Male	50+	LYMPHADENOPATHY	1
Male	50+	MALIGNANT MELANOMA	1
Male	50+	MYASTHENIA GRAVIS	1
Male	50+	NEUTROPENIA	1
Male	50+	OBSTRUCTIVE UROPATHY	1
Male	50+	OPTIC NEURITIS	1
Male	50+	ORAL CONTRACEPTION	1
Male	50+	PARKINSONISM, PRIMARY	1
Male	50+	PREGNANCY	1
Male	50+	PULMONARY EMBOLUS	1
Male	50+	RADIATION THERAPY ICD	1
Male	50+	RETROPERITONEAL FIBROSIS	1
Male	50+	SICKLE CELL ANEMIA	1
Male	50+	STEVENS JOHNSON SYNDROME	1
Male	50+	SUDDEN DEATH	1
Male	50+	SUICIDAL BEHAVIOR	1
Male	50+	THROMBOCYTOPENIA	1
Male	50+	THROMBOCYTOPENIA, SECONDARY	1
Male	50+	THROMBOPHLEBITIS	1

	Age		
Gender		Disease Group	N
	Under 50	HYPERSENSITIVITY REACTIONS	3,300
	Under 50	RESPIRATORY INFECTIONS	2,986
	Under 50	FRACTURES AND INJURIES	1,650
	Under 50	PREGNANCY	1,513
Female	Under 50	CONTRACEPTIVE MEASURES	1,056
Female	Under 50	DIARRHEA, GASTROENTERITIS	986
Female	Under 50	ORAL CONTRACEPTION	899
Female		ABNL PREG TERMINATED OR DELIV	694
Female	Under 50	CNS EXCITATION	596
Female	Under 50	DEPRESSION	578
Female		ABDOMINAL PAIN	574
	Under 50	PSYCHOSES, DRUG INDUCED	528
	Under 50	LACTIC ACIDOSIS SYMPTOMS	513
	Under 50	NORMAL PREG TERMINATED	506
	Under 50	NORMAL PREGNANCT TERMINATED	506
	Under 50	THYROID DISEASE	487
	Under 50	HIV	424
	Under 50	CARDIOVASCULAR DISEASE	423
	Under 50	HYPERTENSION	397
	Under 50	ASTHMA	396
	Under 50	SYMPTOMS OF DIG-TOXICITY	351
Female		LIPID ABNORMALITIES	342
Female		CONTRACEPTION- IMPLANTS	330
		TUBERCULOSIS	319
Female		HEMATOLOGIC DISORDERS	316
Female	Under 50	SYMPTOMS OF GI IRRITATION	315
Female		DIABETES MELLITUS I AND II	302
	Under 50	COUGH	278
	Under 50	COND- REYE SYNDROME RELATED	268
	Under 50	CHRONIC OTITIS MEDIA	251
	Under 50	ANXIETY DISORDERS	208
	Under 50	PANCYTOPENIA	188
	Under 50	OBESITY	175
	Under 50	SYMPTOMS OF ERGOTISM	173
	Under 50	GERD	173
	Under 50	ANAPHYLACTIC SHOCK	166
	Under 50	CONTRACEPTION- INJECTION (D)	165
	Under 50	MILD FUNGAL INFECTIONS	165
Female		ANEMIAS, OTHER	164
Female		HEPATIC DYSFUNCTION	158
Female	Under 50	CANCER	146
Female	Under 50	GI HEMORRHAGE	145
Female	Under 50	BLEEDING	128
Female	Under 50	VIRAL ILLNESSES	126
Female		HEPATITIS	120
Female		ACUTE OTITIS MEDIA	113
Female	Under 50	DIARRHEA	113
Female		GASTRITIS	101
Female	Under 50	BRONCHOPNEUMONIA	94
Female	Under 50	HEMATURIA	92

	Age		
Gender		Disease Group	N
	Under 50	ANEMIA,DEF.FE,OTH	85
	Under 50	ARTHRITIS, RHEUMATOID	83
	Under 50	PREG TERMINATION- CHEMICAL	83
	Under 50	ARRHYTHMIAS	78
	Under 50	COLON, IRRITABLE	78
	Under 50	LYMPHADENOPATHY	78
	Under 50	SYNCOPE	70
	Under 50	CHOLELITHIASIS	67
	Under 50	GALLSTONES	67
	Under 50	HYPERTHYROIDISM	63
	Under 50	KIDNEY STONES	59
	Under 50	DEHYDRATION	54
	Under 50	VOLUME DEPLETION	54
	Under 50	DERMATITIS,MACULOPAPULAR	50
	Under 50	BREAST CANCER, FEMALE	48
	Under 50	,	48
	Under 50	PSORIASIS	40
	Under 50	ANOREXIA	40
	Under 50	ARTHRITIS, OSTEOARTHRITIS	40
	Under 50	BIPOLAR DISORDER	40
	Under 50	EPILEPSY	40
	Under 50	ALCOHOLISM	39
	Under 50	LUPUS	39
	Under 50	CNS DEMYELINATING DIS	38
	Under 50	COPD	36
	Under 50	PANIC DISORDERS	36
	Under 50	PERIPHERAL NEUROPATHY	35
	Under 50	GI ULCER	34
	Under 50	ANKYLOSING SPONDYLITIS	33
	Under 50	DYSKINESIAS	32
	Under 50	HEMATEMESIS	32
	Under 50	MENOPAUSE	32
	Under 50	BLEEDING RISK DIAGNOSIS	31
	Under 50	CROHN'S DISEASE	31
	Under 50	CRYSTALLURIA	30
	Under 50	DEEP VEIN THROMBOSIS	29
	Under 50	ALBUMINURIA/ NEPHROPATHY	28
	Under 50	OSTEOPOROSIS	28
	Under 50	RENAL DISEASE	28
	Under 50	SYMPTOMS OF QUINIDINE-TOXICITY	28
Female	Under 50	COLITIS	27
Female	Under 50	COLON POLYPS	27
Female	Under 50	ISCHEMIC HEART DISEASE	26
Female	Under 50	STEATORRHEA	26
Female	Under 50	PRURITUS	25
	Under 50	PULMONARY DISORDERS	24
	Under 50	PULMONARY FIBROSIS	24
	Under 50	RENAL FAILURE-GENERAL	24
	Under 50	HEMORRHAGIC DISORDERS	23
	Under 50	PLEURAL EFFUSION-D	23

	Age		
Gender		Disease Group	N
	Under 50	EPISTAXIS	22
	Under 50	PERSONALITY DISORDERS	22
	Under 50	RENAL FAILURE W/O HTN	22
	Under 50	PRERENAL AZOTEMIA	21
	Under 50	PROTEINURIA	20
	Under 50	GI OBSTRUCTION	17
	Under 50	LEUKOPENIA	17
	Under 50	THROMBOPHLEBITIS	17
	Under 50	ABUSE- DRUG	16
	Under 50	CONGESTIVE HEART FAILURE	16
	Under 50	URINARY RETENTION	16
	Under 50	ANGINA, PECTORIS	15
	Under 50	EXTRAPYRAMIDAL REACTIONS	15
	Under 50	MYELOSUPPRESSION	15
	Under 50	PSYCHOSES	15
	Under 50	STROKE	14
	Under 50	SUICIDAL BEHAVIOR	14
	Under 50	THROMBOCYTOPENIA	14
	Under 50	ANEURYSM	13
	Under 50	APPENDICITIS	13
	Under 50	HEMOLYSIS	13
	Under 50	HEPATITIS, ALLER CHOLESTATIC	13
	Under 50	NASAL POLYPS	13
	Under 50	PULMONARY EMBOLUS	13
	Under 50	TELANGLECTASIS	13
	Under 50	ARTHROPATHIES, OTHER	12
	Under 50	COLOSTOMY/ ILEOSTOMY	12
	Under 50	NUTRITIONAL/ NEURO DEFICIENCY	12
	Under 50	SEVERE FUNGAL INFECTIONS	12
Female	Under 50	STRESS DISORDERS	12
Female	Under 50	ANGIONEUROTIC EDEMA	11
Female	Under 50	HEPATIC CIRRHOSIS	11
Female	Under 50	PULMONARY EDEMA	11
Female	Under 50	AGRANULOCYTOSIS	10
Female	Under 50	BOWEL OBSTRUCTION	10
Female	Under 50	BULIMIA	10
Female	Under 50	ENCEPHALOPATHIC SYNDROME	10
Female	Under 50	HEMOLYTIC ANEMIA, HERED	10
Female	Under 50	NEUTROPENIA	10
Female	Under 50	PANCREATITIS	10
Female	Under 50	THROMBOCYTOPENIA, SECONDARY	10
Female	Under 50	COAGULATION DEFECTS	9
Female	Under 50	GLAUCOMA	9
Female	Under 50	HEAD TRAUMA	9
Female	Under 50	HEPATOMEGALY WITH STEATOSIS	9
Female	Under 50	SUICIDE	9
Female	Under 50	VENTRICULAR ARRHYTHMIA	9
Female	Under 50	CHICKEN POX	8
Female	Under 50	MALIGNANT MELANOMA	8
Female	Under 50	RELATED TO FETAL OUTCOMES	8

	Age		
Gender	_	Disease Group	N
	Under 50	UREMIA	8
	Under 50	ANEMIA,MEGALOBLASTIC	7
	Under 50	ATRIAL FIBRILLATION	7
	Under 50	CEREBRAL PALSY	7
	Under 50	CHOLESTATIC JAUNDICE	7
	Under 50	GOUT	7
	Under 50	INTERSTITIAL PNEUMONITIS	7
	Under 50	MYOCARDIAL ISCHEMIA	7
	Under 50	OPTIC NEURITIS	7
	Under 50	ANGINA, UNSTABLE	6
	Under 50	EXFOLIATIVE DERMATITIS	6
	Under 50	HYPERSECRETORY STATES	6
	Under 50	NEUROPATHIES	6
	Under 50	SICKLE CELL ANEMIA	6
	Under 50	ARTHRITIS, PSORIATIC	5
	Under 50	COLON LESIONS	5
	Under 50	CYSTIC FIBROSIS	5
	Under 50	HEART BLOCK	5
	Under 50	JAUNDICE	5
	Under 50	MALIGNANT NEOPLASM, CNS	5
	Under 50	RENAL CALCIFICATION	5
	Under 50	BRAIN HEMORRHAGE	4
	Under 50	HEMOPTYSIS	4
Female	Under 50	HYPOTENSION	4
Female	Under 50	INTESTINAL ATONY	4
Female	Under 50	OSTEOSARCOMA	4
Female	Under 50	RADIATION THERAPY ICD	4
Female	Under 50	BRADYCARDIA	3
Female	Under 50	BULLOUS RASH	3
Female	Under 50	CIRRHOSIS	3
Female	Under 50	ELECTROLYTE DISORDERS	3
Female	Under 50	HEMOLYTIC ANEMIA, ACQ	3
Female	Under 50	ILEUS, PARALYTIC	3
Female	Under 50	INTRA-ABDOMINAL HEMORRHAGE	3
	Under 50	KETOACIDOSIS	3
	Under 50	MYOPATHY	3
	Under 50	OBSTRUCTIVE UROPATHY	3
	Under 50	PSEUDOTUMOR CEREBRI	3
Female	Under 50	PULMONARY EMBOLUS, PREVIOUS	3
Female	Under 50	RETROPERITONEAL FIBROSIS	3
Female	Under 50	ADDISON'S DISEASE	2
Female	Under 50	ADRENAL INSUFFICIENCY	2
	Under 50	ALCOHOLIC LIVER DISEASE	2
Female	Under 50	APLASTIC ANEMIA	2
	Under 50	BLEPHARASPASM	2
		DEMENTIA	2
Female	Under 50		
Female	Under 50	ERYTHEMA MULTIFORME	2
Female	Under 50	HALLUCINATIONS	
Female	Under 50	HEPATIC FAILURE	2
Female	Under 50	MYASTHENIA GRAVIS	2

	Age		
Gender	_	Disease Group	N
	Under 50	PARKINSONISM, PRIMARY	2
	Under 50	PERICARDIAL DISEASE	2
	Under 50	PERICARDIAL EFFUSION	2
	Under 50	STEVENS JOHNSON SYNDROME	2
	Under 50	AV BLOCK II TO III	1
	Under 50	BLOOD DYSCRASIAS	1
	Under 50	BOWEL PERFORATION	1
	Under 50	CEREBRAL ARTERIOSCLEROSIS	1
	Under 50	DRUG INDUCED PSYCH DISORDERS	1
	Under 50	FECAL IMPACTION	1
Female	Under 50	GLAUCOMA,NARROW ANGLE	1
	Under 50	HYPERCALCEMIA	1
	Under 50	HYPOPROTHROMINEMIA	1
	Under 50	MYELODYSPLASTIC SYNDROME	1
	Under 50	SUBARACHNOID HEMORRHAGE	1
Female		CARDIOVASCULAR DISEASE	731
Female		HYPERTENSION	673
Female		HYPERSENSITIVITY REACTIONS	630
Female		LIPID ABNORMALITIES	530
Female		RESPIRATORY INFECTIONS	415
Female		FRACTURES AND INJURIES	369
Female		DIABETES MELLITUS I AND II	294
Female		THYROID DISEASE	229
Female		DIARRHEA, GASTROENTERITIS	204
Female	50+	CANCER	180
Female	50+	SYMPTOMS OF GLIRRITATION	157
Female	50+	SYMPTOMS OF DIG-TOXICITY	140
Female	50+	LACTIC ACIDOSIS SYMPTOMS	136
Female	50+	HEMATOLOGIC DISORDERS	133
Female	50+	PSYCHOSES, DRUG INDUCED	115
Female	50+	ABDOMINAL PAIN	114
Female	50+	TUBERCULOSIS	114
Female	50+	DEPRESSION	113
Female	50+	COUGH	104
Female	50+	HEPATIC DYSFUNCTION	104
Female	50+	OSTEOPOROSIS	104
Female	50+	COPD	102
Female	50+	GERD	100
Female	50+	CNS EXCITATION	99
Female	50+	ASTHMA	97
Female	50+	BREAST CANCER, FEMALE	89
Female	50+	HEPATITIS	88
Female	50+	ARTHRITIS, OSTEOARTHRITIS	86
Female	50+	ISCHEMIC HEART DISEASE	85
Female	50+	ARRHYTHMIAS	78
Female	50+	ARTHRITIS, RHEUMATOID	73
Female	50+	GI HEMORRHAGE	71
Female	50+	ANEMIAS, OTHER	66
Female	50+	MENOPAUSE	66
Female	50+	SYMPTOMS OF ERGOTISM	65

	Age		
Gender	_	Disease Group	N
Female	50+	MILD FUNGAL INFECTIONS	64
Female	50+	PANCYTOPENIA	64
	50+	BLEEDING	60
Female	50+	GLAUCOMA	55
Female	50+	HIV	54
Female	50+	ANEMIA,DEF.FE,OTH	53
Female	50+	CONGESTIVE HEART FAILURE	52
Female	50+	OBESITY	51
Female	50+	COND- REYE SYNDROME RELATED	49
Female	50+	DIARRHEA	47
Female	50+	ANXIETY DISORDERS	46
Female	50+	GASTRITIS	46
Female	50+	ANGINA, PECTORIS	41
Female	50+	ATRIAL FIBRILLATION	40
Female	50+	EDEMA	39
Female	50+	HEMATURIA	36
-	50+	BRONCHOPNEUMONIA	35
Female	50+	COLON, IRRITABLE	35
Female		COLON POLYPS	34
Female	50+	ANAPHYLACTIC SHOCK	32
Female	50+	ANKYLOSING SPONDYLITIS	31
Female	50+	STROKE	27
Female	50+	GIULCER	25
Female	50+	SYMPTOMS OF QUINIDINE-TOXICITY	25
Female	50+	MYOCARDIAL ISCHEMIA	23
Female	50+	PERIPHERAL NEUROPATHY	23
Female	50+	PSORIASIS	23
Female	50+	STEATORRHEA	23
Female	50+	ANEURYSM	20
Female	50+	DEEP VEIN THROMBOSIS	20
Female	50+	RENAL FAILURE-GENERAL	20
Female	50+	RENAL FAILURE W/O HTN	19
Female	50+	BLEEDING RISK DIAGNOSIS	18
Female	50+	HEMATEMESIS	18
Female	50+	ANGINA, UNSTABLE	17
Female	50+	CHOLELITHIASIS	17
Female	50+	CHRONIC OTITIS MEDIA	17
Female	50+	GALLSTONES	17
Female	50+	DERMATITIS,MACULOPAPULAR	16
Female	50+	DYSKINESIAS	16
Female	50+	SYNCOPE	16
Female	50+	VIRAL ILLNESSES	16
Female	50+	CNS DEMYELINATING DIS	15
Female	50+	DEMENTIA	15
Female	50+	RENAL DISEASE	15
Female	50+	HEART BLOCK	14
Female	50+	ALBUMINURIA/ NEPHROPATHY	13
Female	50+	LUPUS	13
Female	50+	NUTRITIONAL/ NEURO DEFICIENCY	12
Female	50+	ARTHROPATHIES, OTHER	11

	Age		
Gender	_	Disease Group	N
	50+	DEHYDRATION	11
	50+	EXTRAPYRAMIDAL REACTIONS	11
	50+	KIDNEY STONES	11
	50+	VOLUME DEPLETION	11
	50+	HYPERTHYROIDISM	10
	50+	LEUKOPENIA	10
	50+	LYMPHADENOPATHY	10
	50+	MYELOSUPPRESSION	10
	50+	ACUTE OTITIS MEDIA	9
	50+	AGRANULOCYTOSIS	9
	50+	AV BLOCK II TO III	9
	50+	BIPOLAR DISORDER	9
	50+	COAGULATION DEFECTS	9
	50+	NEUROPATHIES	9
	50+	NEUTROPENIA	9
			9
	50+	PSYCHOSES	9
	50+	PULMONARY DISORDERS	9
	50+	PULMONARY EDEMA	9
	50+	PULMONARY FIBROSIS	9
	50+	THROMBOPHLEBITIS	9
	50+	COLITIS	8
	50+	CROHN'S DISEASE	8
	50+	EPILEPSY	8
	50+	INTERSTITIAL PNEUMONITIS	8
	50+	PLEURAL EFFUSION-D	8
Female	50+	TELANGLECTASIS	8
Female	50+	HEMORRHAGIC DISORDERS	7
Female	50+	PANIC DISORDERS	7
Female	50+	PRURITUS	7
Female	50+	ALZHEIMER	6
Female	50+	BOWEL OBSTRUCTION	6
Female	50+	GI OBSTRUCTION	6
Female	50+	GLAUCOMA,NARROW ANGLE	6
Female	50+	HEPATIC CIRRHOSIS	6
Female	50+	HEPATOMEGALY WITH STEATOSIS	6
Female	50+	HYPERSECRETORY STATES	6
Female	50+	OSTEOSARCOMA	6
Female	50+	SEVERE FUNGAL INFECTIONS	6
Female	50+	ALCOHOLISM	5
Female	50+	ANEMIA,MEGALOBLASTIC	5
Female	50+	ARTHRITIS, PSORIATIC	5
	50+	BLOOD DYSCRASIAS	5
	50+	EPISTAXIS	5
	50+	GOUT	5
	50+	MYELODYSPLASTIC SYNDROME	5
	50+	OPTIC NEURITIS	5
	50+	PARKINSONISM,PRIMARY	5
	50+	STRESS DISORDERS	5
	50+	UREMIA	5 5
	50+	ANOREXIA	4
LOTTIALE	JU 1	AUTONEAIA	4

Appendix VII. Nonproprietary Database, Restrict Definition APPENDIX VII. Table 6b. Number of Control Patients by Age, Gender, and Potential Driver Impairing Disease Groups

	Age	T	
Gender	Group	Disease Group	N
Female		BRAIN HEMORRHAGE	4
Female		COLOSTOMY/ ILEOSTOMY	4
Female		CRYSTALLURIA	4
Female		ENCEPHALOPATHIC SYNDROME	4
Female		MALIGNANT MELANOMA	4
Female		PERSONALITY DISORDERS	4
Female		PULMONARY EMBOLUS, PREVIOUS	4
Female		THROMBOCYTOPENIA	4
Female		APLASTIC ANEMIA	3
Female		BRADYCARDIA	3
Female		COLON LESIONS	3
Female		DELIRIUM	3
Female		EXFOLIATIVE DERMATITIS	3
Female		HEPATITIS, ALLER CHOLESTATIC	3
Female		HYPERCALCEMIA	ى 2
Female		KETOACIDOSIS	3
		PANCREATITIS	3
Female Female		PULMONARY EMBOLUS	3
			3
Female		SUICIDAL BEHAVIOR THROMBOCYTOPENIA, SECONDARY	3
Female		,	
Female		URINARY RETENTION	3
Female		VENTRICULAR ARRHYTHMIA	3
Female		ALVEOLITIS, FIBROSING	2
Female		ANGIONEUROTIC EDEMA	2
Female		CARDIAC VALVE FIBROSIS	2 2 2
Female		CEREBRAL PALSY	2
Female		CIRRHOSIS	2
Female		HEMOPTYSIS	2
Female		HYPOPROTHROMINEMIA	2
Female		HYPOTENSION	2
Female		INTRA-ABDOMINAL HEMORRHAGE	2
Female		MALIGNANT NEOPLASM, CNS	2
Female		PROTEINURIA	2
Female		RHABDOMYOLYSIS	2
Female		SUBARACHNOID HEMORRHAGE	2
Female		ABNL PREG TERMINATED OR DELIV	1
Female		ALCOHOLIC LIVER DISEASE	1
Female		APPENDICITIS	1
Female		BLEPHARASPASM	1
Female		BULLOUS RASH	1
Female		CEREBRAL ARTERIOSCLEROSIS	1
Female		CHOLESTATIC JAUNDICE	1
Female		CONTRACEPTIVE MEASURES	1
Female		DRUG INDUCED PSYCH DISORDERS	1
Female		FECAL IMPACTION	1
Female		HALLUCINATIONS	1
Female		HEAD TRAUMA	1
Female		HEPATIC FAILURE	1
	50+	ILEUS, PARALYTIC	1
Female	50+	MYOPATHY	1

Gender Group Disease Group N Female 50+ NASAL POLYPS 1 Female 50+ NASAL POLYPS 1 Female 50+ RADIATION THERAPY ICD 1 Female 50+ RENATED TO FETAL OUTCOMES 1 Female 50+ RENAL CALCIFICATION 1 Female 50+ RENAL CALCIFICATION 1 Male Under 50 HYPERSENSITIVITY REACTIONS 1,652 Male Under 50 RESPIRATORY INFECTIONS 1,652 Male Under 50 CARDIOVASCULAR DISEASE 476 Male Under 50 LIPID ABNORMALITIES 475 Male Under 50 LIPID ABNORMALITIES 475 Male Under 50 DIARRHEA, GASTROENTERITIS 386 Male Under 50 DIARRHEA, GASTROENTERITIS 386 Male Under 50 DEPRESSION 239 Male Under 50 DEPRESSION 239 Male Under 50 SYMPTOMS		Ι Λαο	T	1
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Male Under 50 SYMPTOMS OF ERGOTISM 81 Male Under 50 VIRAL ILLNESSES 75 Male Under 50 CONTRACEPTIVE MEASURES 69 Male Under 50 ACUTE OTITIS MEDIA 66 Male Under 50 THYROID DISEASE 63 Male Under 50 BRONCHOPNEUMONIA 62 Male Under 50 DIARRHEA 61 Male Under 50 ARRHYTHMIAS 60 Male Under 50 GASTRITIS 60 Male Under 50 KIDNEY STONES 57 Male Under 50 ISCHEMIC HEART DISEASE 53 Male Under 50 PANCYTOPENIA 52 Male Under 50 HEMATURIA 50	Male	Under 50	BLEEDING	85
Male Under 50 VIRAL ILLNESSES 75 Male Under 50 CONTRACEPTIVE MEASURES 69 Male Under 50 ACUTE OTITIS MEDIA 66 Male Under 50 THYROID DISEASE 63 Male Under 50 BRONCHOPNEUMONIA 62 Male Under 50 DIARRHEA 61 Male Under 50 ARRHYTHMIAS 60 Male Under 50 GASTRITIS 60 Male Under 50 KIDNEY STONES 57 Male Under 50 ISCHEMIC HEART DISEASE 53 Male Under 50 PANCYTOPENIA 52 Male Under 50 HEMATURIA 50	Male	Under 50	HEMATOLOGIC DISORDERS	81
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Male Under 50 HEMATURIA 50				
INIAIE UTIUEI DU POURIADIO 50	Male	Under 50	PSORIASIS	50

Appendix VII. Nonproprietary Database, Restrict Definition APPENDIX VII. Table 6b. Number of Control Patients by Age, Gender, and Potential Driver Impairing Disease Groups

	Age		
Gender	Group	Disease Group	N
Male	Under 50	OBESITY	45
Male	Under 50	ALCOHOLISM	42
Male	Under 50	HIV	42
Male	Under 50	COPD	37
Male	Under 50	LYMPHADENOPATHY	35
Male	Under 50	ARTHRITIS, RHEUMATOID	34
Male	Under 50	SYNCOPE	34
Male	Under 50	EPILEPSY	33
Male	Under 50	ARTHRITIS, OSTEOARTHRITIS	32
Male	Under 50	ANEMIAS, OTHER	31
Male	Under 50	COLON, IRRITABLE	31
Male	Under 50	RENAL DISEASE	31
Male	Under 50	ORAL CONTRACEPTION	30
Male	Under 50	GOUT	29
Male	Under 50	HEMATEMESIS	29
Male	Under 50	RENAL FAILURE-GENERAL	29
Male	Under 50	SYMPTOMS OF QUINIDINE-TOXICITY	29
Male	Under 50	ANGINA, PECTORIS	27
Male	Under 50	ANKYLOSING SPONDYLITIS	26
Male	Under 50	RENAL FAILURE W/O HTN	26
Male	Under 50	DERMATITIS,MACULOPAPULAR	24
Male	Under 50	GI ULCER	24
Male	Under 50	DEHYDRATION	23
Male	Under 50	VOLUME DEPLETION	23 22
Male	Under 50	CROHN'S DISEASE	
Male	Under 50	DYSKINESIAS	22
Male	Under 50	COLON POLYPS	21
Male	Under 50	EPISTAXIS	21
Male	Under 50	PERIPHERAL NEUROPATHY	21
Male	Under 50	ABUSE- DRUG	19
Male	Under 50	CONTRACEPTION- INJECTION (D)	19
Male	Under 50	STEATORRHEA	19
Male	Under 50	ALBUMINURIA/ NEPHROPATHY	18
Male	Under 50	PANIC DISORDERS	18
Male	Under 50	APPENDICITIS	17
Male	Under 50	COLITIS	17
Male	Under 50	EDEMA	17
Male	Under 50	GLAUCOMA	17
Male	Under 50	ATRIAL FIBRILLATION	16
Male	Under 50	BIPOLAR DISORDER	16
Male	Under 50	ARTHRITIS, PSORIATIC	15
Male	Under 50	CNS DEMYELINATING DIS	15
Male	Under 50	NUTRITIONAL/ NEURO DEFICIENCY	15
Male	Under 50	CONGESTIVE HEART FAILURE	14
Male	Under 50	DEEP VEIN THROMBOSIS	14
Male	Under 50	HEAD TRAUMA	14
Male	Under 50	BLEEDING RISK DIAGNOSIS	13
Male	Under 50	VENTRICULAR ARRHYTHMIA	13
Male	Under 50	ANEURYSM	12
Male	Under 50	EXTRAPYRAMIDAL REACTIONS	12

	Age		
Gender	_	Disease Group	N
Male	Under 50	HEPATITIS, ALLER CHOLESTATIC	12
Male	Under 50	PERSONALITY DISORDERS	12
Male	Under 50	PLEURAL EFFUSION-D	12
Male	Under 50	STROKE	12
Male	Under 50	ARTHROPATHIES, OTHER	11
Male	Under 50	BOWEL OBSTRUCTION	11
Male	Under 50	GI OBSTRUCTION	11
Male	Under 50	HEMORRHAGIC DISORDERS	11
Male	Under 50	PROTEINURIA	11
Male	Under 50	ANEMIA,DEF.FE,OTH	10
Male	Under 50	CHICKEN POX	10
Male	Under 50	HEPATIC CIRRHOSIS	10
Male	Under 50	LEUKOPENIA	10
Male	Under 50	NASAL POLYPS	10
Male	Under 50	PRURITUS	10
Male	Under 50	PULMONARY EDEMA	10
Male	Under 50	STRESS DISORDERS	10
Male	Under 50	THROMBOCYTOPENIA	10
Male	Under 50	URINARY RETENTION	10
Male	Under 50	CEREBRAL PALSY	9
Male	Under 50	CHOLELITHIASIS	9
Male	Under 50	GALLSTONES	9
Male	Under 50	HEART BLOCK	9
Male	Under 50	MYOCARDIAL ISCHEMIA	9
Male	Under 50	THROMBOCYTOPENIA, SECONDARY	9
		ANGINA, UNSTABLE	8
Male	Under 50 Under 50	BENIGN PROSTATIC HYPERTROPHY	8
Male Male	Under 50	HEMOPTYSIS	8
	Under 50	HEPATOMEGALY WITH STEATOSIS	8
Male			8
Male	Under 50	PULMONARY DISORDERS	
Male	Under 50	SEVERE FUNGAL INFECTIONS	8
Male	Under 50	SUICIDAL BEHAVIOR	8
Male	Under 50	BRAIN HEMORRHAGE	7
Male	Under 50	COLOSTOMY/ ILEOSTOMY	7
Male	Under 50	MALIGNANT NEOPLASM, CNS	7
Male	Under 50	NEUROPATHIES	7
Male	Under 50	PERICARDIAL EFFUSION	7
Male	Under 50	PULMONARY FIBROSIS	7
Male	Under 50	ANOREXIA	6
Male	Under 50	COAGULATION DEFECTS	6
Male	Under 50	CYSTIC FIBROSIS	6
Male	Under 50	ENCEPHALOPATHIC SYNDROME	6
Male	Under 50	HYPERSECRETORY STATES	6
Male	Under 50	HYPERTHYROIDISM	6
Male	Under 50	PERICARDIAL DISEASE	6
Male	Under 50	PROSTATIC HYPERTROPHY	6
Male	Under 50	EXFOLIATIVE DERMATITIS	5
Male	Under 50	ILEUS, PARALYTIC	5
Male	Under 50	LUPUS	5
Male	Under 50	MALIGNANT MELANOMA	5

	Age		
Gender	Group	Disease Group	N
Male	Under 50	MYELOSUPPRESSION	5
Male	Under 50	OSTEOSARCOMA	5
Male	Under 50	PSYCHOSES	5
Male	Under 50	RENAL CALCIFICATION	5
Male	Under 50	AGRANULOCYTOSIS	4
Male	Under 50	HALLUCINATIONS	4
Male	Under 50	NEUTROPENIA	4
Male	Under 50	OBSTRUCTIVE UROPATHY	4
Male	Under 50	OPTIC NEURITIS	4
Male	Under 50	PANCREATITIS	4
Male	Under 50	PRERENAL AZOTEMIA	4
Male	Under 50	RADIATION THERAPY ICD	4
Male	Under 50	SUICIDE	4
Male	Under 50	THROMBOPHLEBITIS	4
Male	Under 50	ANGIONEUROTIC EDEMA	3
Male	Under 50	AV BLOCK II TO III	3
Male	Under 50	CIRRHOSIS	3
Male	Under 50	CRYSTALLURIA	3
Male	Under 50	DRUG INDUCED PSYCH DISORDERS	3
Male	Under 50	KETOACIDOSIS	3
Male	Under 50	MYOCARDITIS	3
Male	Under 50	MYOPATHY	3
Male	Under 50	PARKINSONISM,PRIMARY	3
Male	Under 50	PSEUDOMEMBRANOUS COLITIS	3
Male	Under 50	ALCOHOLIC LIVER DISEASE	2
	Under 50	APLASTIC ANEMIA	2
Male Male	Under 50	BRADYCARDIA	2
Male	Under 50	BULLOUS RASH	2
	Under 50	CARDIAC VALVE FIBROSIS	2
Male Male	Under 50	CHOLESTATIC JAUNDICE	2
		COLON LESIONS	
Male Male	Under 50	DEMENTIA	2
Male	Under 50		2
	Under 50	GLAUCOMA,NARROW ANGLE	2
Male	Under 50	HEMOLYSIS	
Male	Under 50	HEMOLYTIC ANEMIA, HERED	2
Male	Under 50	INTERSTITIAL PNEUMONITIS	2
Male	Under 50	JAUNDICE	2
Male	Under 50	RELATED TO FETAL OUTCOMES	2
Male	Under 50	RETROPERITONEAL FIBROSIS	2
Male	Under 50	SICKLE CELL ANEMIA	2
Male	Under 50	SUBARACHNOID HEMORRHAGE	2
Male	Under 50	TELANGLECTASIS	2
Male	Under 50	ABNL PREG TERMINATED OR DELIV	1
Male	Under 50	ADDISON'S DISEASE	1
Male	Under 50	ADRENAL INSUFFICIENCY	1
Male	Under 50	ALZHEIMER	1
Male	Under 50	ANEMIA,MEGALOBLASTIC	1
Male	Under 50	BLEPHARASPASM	1
Male	Under 50	BOWEL PERFORATION	1
Male	Under 50	BREAST CANCER, FEMALE	1

Appendix VII. Nonproprietary Database, Restrict Definition APPENDIX VII. Table 6b. Number of Control Patients by Age, Gender, and Potential Driver Impairing Disease Groups

	Age		
Gender	_	Disease Group	N
Male	Under 50	DELIRIUM .	1
Male	Under 50	ERYTHEMA MULTIFORME	1
Male	Under 50	FECAL IMPACTION	1
Male	Under 50	HEPATIC FAILURE	1
Male	Under 50	HYPERSENSITIVITY PNEUMONITIS	1
Male	Under 50	HYPOTENSION	1
Male	Under 50	INTRA-ABDOMINAL HEMORRHAGE	1
Male	Under 50	OSTEOMALACIA	1
Male	Under 50	OSTEOPOROSIS	1
Male	Under 50	PREGNANCY	1
Male	Under 50	PULMONARY EMBOLUS, PREVIOUS	1
Male	Under 50	RENAL OSTEODYSTROPHY	1
Male	Under 50	STEVENS JOHNSON SYNDROME	1
Male	Under 50	UREMIA	1
Male	50+	CARDIOVASCULAR DISEASE	685
Male	50+	HYPERTENSION	621
Male	50+	LIPID ABNORMALITIES	551
Male	50+	DIABETES MELLITUS I AND II	390
Male	50+	HYPERSENSITIVITY REACTIONS	350
Male	50+	FRACTURES AND INJURIES	264
	50+	RESPIRATORY INFECTIONS	262
Male	50+	CANCER	207
Male	50+	ISCHEMIC HEART DISEASE	205
Male	50+	HEPATIC DYSFUNCTION	136
Male	50+	ARRHYTHMIAS	131
Male	50+	DIARRHEA, GASTROENTERITIS	126
Male	50+	HEPATITIS	112
Male	50+	SYMPTOMS OF GI IRRITATION	110
Male	50+	SYMPTOMS OF DIG-TOXICITY	107
Male	50+	TUBERCULOSIS	107
Male	50+	COPD	104
Male	50+	HEMATOLOGIC DISORDERS	98
Male	50+	BLEEDING	87
Male	50+	ATRIAL FIBRILLATION	79
Male	50+	GI HEMORRHAGE	70
Male	50+	PSYCHOSES, DRUG INDUCED	66
Male	50+	ANGINA, PECTORIS	64
Male	50+	CONGESTIVE HEART FAILURE	64
Male	50+	PANCYTOPENIA	63
Male	50+	ARTHRITIS, OSTEOARTHRITIS	61
Male	50+	ABDOMINAL PAIN	59
Male	50+	ANEMIAS, OTHER	59
Male	50+	GERD	58
Male	50+	DEPRESSION	57
Male	50+	LACTIC ACIDOSIS SYMPTOMS	57
	50+	MILD FUNGAL INFECTIONS	55
Male	50+ 50+	COUGH	54
Male	50+	GLAUCOMA	52
Male	50+ 50+	THYROID DISEASE	50
			49
Male	50+	SYMPTOMS OF QUINIDINE-TOXICITY	49

Candar	Age	Diagona Croup	NI NI
Gender		Disease Group	N
Male	50+	HEMATURIA	46
Male	50+	ASTHMA	43
Male	50+	COLON POLYPS	43
Male	50+	CNS EXCITATION	42
Male	50+	SYMPTOMS OF ERGOTISM	41
Male	50+	GI ULCER	40
Male	50+	COND- REYE SYNDROME RELATED	38
Male	50+	HEMATEMESIS	37
Male	50+	STROKE	37
Male	50+	BENIGN PROSTATIC HYPERTROPHY	36
Male	50+	ANEMIA,DEF.FE,OTH	35
Male	50+	BRONCHOPNEUMONIA	34
Male	50+	ANXIETY DISORDERS	32
Male	50+	PROSTATIC HYPERTROPHY	32
Male	50+	OBESITY	31
Male	50+	PERIPHERAL NEUROPATHY	31
Male	50+	RENAL FAILURE W/O HTN	31
Male	50+	GASTRITIS	30
Male	50+	RENAL FAILURE-GENERAL	30
Male	50+	ANEURYSM	29
Male	50+	EDEMA	29
Male	50+	MYOCARDIAL ISCHEMIA	28
Male	50+	CHRONIC OTITIS MEDIA	26
Male	50+	KIDNEY STONES	25
Male	50+	NUTRITIONAL/ NEURO DEFICIENCY	24
Male	50+	ANKYLOSING SPONDYLITIS	22
Male	50+	ARTHRITIS, RHEUMATOID	22
Male	50+	GOUT	22
Male	50+	PSORIASIS	22
Male	50+	ALBUMINURIA/ NEPHROPATHY	21
Male	50+	RENAL DISEASE	21
Male	50+	STEATORRHEA	21
Male	50+	VENTRICULAR ARRHYTHMIA	21
Male	50+	SYNCOPE	20
Male	50+	DIARRHEA	19
Male	50+	DEEP VEIN THROMBOSIS	18
Male	50+	ALCOHOLISM	16
Male	50+	ANAPHYLACTIC SHOCK	16
Male	50+	BLEEDING RISK DIAGNOSIS	16
Male	50+	VIRAL ILLNESSES	15
Male	50+	ACUTE OTITIS MEDIA	14
Male	50+	HEART BLOCK	14
Male	50+	HEPATIC CIRRHOSIS	13
Male	50+	ANGINA, UNSTABLE	12
Male	50+	BOWEL OBSTRUCTION	12
Male	50+	COLON, IRRITABLE	12
Male	50+	AV BLOCK II TO III	11
Male		DEHYDRATION	11
	50+		+
			11
Male Male	50+ 50+	HEMORRHAGIC DISORDERS URINARY RETENTION	

	Age		
Gender		Disease Group	N
Male	50+	VOLUME DEPLETION	11
Male	50+	CIRRHOSIS	10
Male	50+	NEUROPATHIES	10
Male	50+	PULMONARY DISORDERS	10
Male	50+	PULMONARY FIBROSIS	10
Male	50+	BIPOLAR DISORDER	9
Male	50+	BRADYCARDIA	9
Male	50+	COAGULATION DEFECTS	9
Male	50+	COLOSTOMY/ ILEOSTOMY	9
Male	50+	DERMATITIS,MACULOPAPULAR	9
Male	50+	INTERSTITIAL PNEUMONITIS	9
Male	50+	LYMPHADENOPATHY	9
Male	50+	PARKINSONISM,PRIMARY	9
Male	50+	DEMENTIA	8
Male	50+	GI OBSTRUCTION	8
Male	50+	HIV	8
Male	50+	PULMONARY EDEMA	8
Male	50+	CNS DEMYELINATING DIS	7
Male	50+	HYPOTENSION	7
Male	50+	ILEUS, PARALYTIC	
Male	50+	NASAL POLYPS	7
Male	50+	OSTEOPOROSIS	7
Male	50+	PLEURAL EFFUSION-D	7
Male	50+	UREMIA	7
Male	50+	CROHN'S DISEASE	6
Male	50+	EPILEPSY	6
Male	50+	HEPATITIS, ALLER CHOLESTATIC	6
Male	50+	HYPERSECRETORY STATES	6
Male	50+	MYELOSUPPRESSION	6
Male	50+	THROMBOCYTOPENIA	6
Male	50+	THROMBOPHLEBITIS	6
Male	50+	CHOLELITHIASIS	5
Male	50+	GALLSTONES	5 5
Male	50+	OPTIC NEURITIS	5
Male	50+	OSTEOSARCOMA	
Male	50+	THROMBOCYTOPENIA, SECONDARY	5 5
Male	50+	ALCOHOLIC LIVER DISEASE	4
Male	50+	ALZHEIMER	4
Male	50+	ANOREXIA	4
Male	50+	APLASTIC ANEMIA	4
Male	50+	ARTHROPATHIES, OTHER	4
Male	50+	BRAIN HEMORRHAGE	4
Male	50+	COLITIS	4
Male	50+	DYSKINESIAS	4
Male	50+	HEAD TRAUMA	4
Male	50+	LEUKOPENIA	4
Male	50+	MYELODYSPLASTIC SYNDROME	4
Male	50+	PANIC DISORDERS	4
Male	50+	PRERENAL AZOTEMIA	4
Male	50+	PRURITUS	4
ivialt	JUT	FINUNITUO	4

	Age		
Gender	_	Disease Group	Ν
Male	50+	PULMONARY EMBOLUS	4
Male	50+	RADIATION THERAPY ICD	4
Male	50+	ANEMIA,MEGALOBLASTIC	3
Male	50+	COLON LESIONS	3
Male	50+	ENCEPHALOPATHIC SYNDROME	3
Male	50+	EPISTAXIS	3
Male	50+	EXFOLIATIVE DERMATITIS	3
Male	50+	HEMOPTYSIS	3
Male	50+	MALIGNANT MELANOMA	3
Male	50+	PROTEINURIA	3
Male	50+	PSYCHOSES	3
Male	50+	SEVERE FUNGAL INFECTIONS	3
Male	50+	AGRANULOCYTOSIS	2
Male	50+	APPENDICITIS	
Male	50+	ARTHRITIS, PSORIATIC	2
Male	50+	HEPATOMEGALY WITH STEATOSIS	2
Male	50+	HYPERCALCEMIA	2
Male	50+	HYPERTHYROIDISM	2
Male	50+	KETOACIDOSIS	2
Male	50+	MALIGNANT NEOPLASM, CNS	2
Male	50+	MYASTHENIA GRAVIS	2
Male	50+	NEUTROPENIA	2
Male	50+	PANCREATITIS	2
Male	50+	ALVEOLITIS,FIBROSING	1
Male	50+	BOWEL PERFORATION	1
Male	50+	CARDIAC ARREST	1
Male	50+	EXTRAPYRAMIDAL REACTIONS	1
Male	50+	GLAUCOMA,NARROW ANGLE	1
Male	50+	HALLUCINATIONS	1
Male	50+	HEMOLYSIS	1
Male	50+	HEMOLYTIC ANEMIA, HERED	1
Male	50+	MEASLES	1
Male	50+	MYOPATHY	1
Male	50+	OBSTRUCTIVE UROPATHY	1
Male	50+	OSTEOMALACIA	1
Male	50+	PERICARDIAL EFFUSION	1
Male	50+	PULMONARY EMBOLUS, PREVIOUS	1
Male	50+	RENAL CALCIFICATION	1
Male	50+	RHABDOMYOLYSIS	1
Male	50+	SUBARACHNOID HEMORRHAGE	1
Male	50+	TELANGLECTASIS	1

Table 7a. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups
Case Group

			Gend				
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Potential						
Under 50	Impairing Disease Groups						
	0	8,603	56	8,944	70	17,547	62
	1	2,433	16	1,602	13	4,035	14
	2	1,574	10	892	7	2,466	,
	3	1,052	7	508	4	1,560	(
	4	625	4	266	2	891	;
	5	366	2	169	1	535	:
	6	270	2	105	1	375	
	7	182	1	76	1	258	
	8	125	1	59	0	184	
	9	84	1	33	0	117	(
	10	56	0	21	0	77	
	11	28	0	17	0	45	
	12	33	0	9	0	42	
	13	11	0	6	0	17	(
	14	13	0	10	0	23	(
	15	1	0	4	0	5	
	16	4	0	2	0	6	(
	17	7	0	3	0	10	(
	18	4	0			4	
	19	2	0			2	
	20	1	0			1	(
	21	2	0			2	
	22			1	0	1	(
	24	1	0			1	

Table 7a. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Case Group

			Gend	der			
		Fema	ale	Ma]	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Potential						
Under 50	Impairing Disease Groups						
	26	1	0	1	0	2	0
	27	1	0			1	0
	All	15,479	100	12,728	100	28,207	100
50+	Number of Potential Impairing Disease Groups						
	0	1,321	46	1,338	52	2,659	49
	1	351	12	260	10	611	11
	2	312	11	248	10	560	10
	3	228	8	206	8	434	8
	4	167	6	112	4	279	5
	5	140	5	107	4	247	5
	6	90	3	75	3	165	3
	7	66	2	58	2	124	2
	8	45	2	40	2	85	2
	9	32	1	23	1	55	1
	10	21	1	16	1	37	1
	11	24	1	18	1	42	1
	12	9	0	15	1	24	0
	13	10	0	6	0	16	0
	14	7	0	9	0	16	0
	15	4	0	7	0	11	0
	16	8	0	5	0	13	0
	17	2	0	1	0	3	0

Table 7a. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group 50+	Number of Potential Impairing Disease Groups						
	18	3	0	3	0	6	0
	19	1	0	1	0	2	0
	20	1	0	2	0	3	0
	21			2	0	2	0
	22			1	0	1	0
	24			3	0	3	0
	All	2,842	100	2,556	100	5,398	100
All Age	Number of Potential Impairing Disease Groups						
	0	9,924	54	10,282	67	20,206	60
	1	2,784	15	1,862	12	4,646	14
	2	1,886	10	1,140	7	3,026	9
	3	1,280	7	714	5	1,994	6
	4	792	4	378	2	1,170	3
	5	506	3	276	2	782	2
	6	360	2	180	1	540	2
	7	248	1	134	1	382	1
	8	170	1	99	1	269	1
	9	116	1	56	0	172	1
	10	77	0	37	0	114	0
	11	52	0	35	0	87	0
	12	42	0	24	0	66	0
	13	21	0	12	0	33	0

Table 7a. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Potential Impairing Disease Groups						
	14	20	0	19	0	39	0
	15	5	0	11	0	16	0
	16	12	0	7	0	19	0
	17	9	0	4	0	13	0
	18	7	0	3	0	10	0
	19	3	0	1	0	4	0
	20	2	0	2	0	4	0
	21	2	0	2	0	4	0
	22			2	0	2	0
	24	1	0	3	0	4	0
	26	1	0	1	0	2	0
	27	1	0			1	0
	All	18,321	100	15,284	100	33,605	100

Table 7b. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Control Group

			Gen	der			
		Fema	ale	Mai	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Potential						
Under 50	Impairing Disease Groups						
	0	34,038	73	31,710	83	65,748	78
	1	4,821	10	2,798	7	7,619	g
	2	3,275	7	1,836	5	5,111	6
	3	2,018	4	862	2	2,880	3
	4	991	2	357	1	1,348	2
	5	500	1	276	1	776	1
	6	307	1	137	0	444	1
	7	201	0	87	0	288	C
	8	88	0	53	0	141	C
	9	70	0	23	0	93	C
	10	53	0	22	0	75	C
	11	22	0	8	0	30	C
	12	21	0	4	0	25	C
	13	8	0	5	0	13	C
	14	8	0	2	0	10	C
	15	3	0	3	0	6	C
	16	5	0			5	C
	17	4	0			4	C
	18	1	0			1	C
	20			1	0	1	C
	21	1	0			1	C
	22	2	0			2	C
	All	46,437	100	38,184	100	84,621	100

Table 7b. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Control Group

			Gend				
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group 50+	Number of Potential Impairing Disease Groups						
	0	5,325	62	5,069	66	10,394	64
	1	829	10	621	8	1,450	9
	2	768	9	629	8	1,397	
	3	553	6	454	6	1,007	(
	4	286	3	216	3	502	;
	5	261	3	235	3	496	;
	6	168	2	131	2	299	2
	7	115	1	107	1	222	
	8	72	1	63	1	135	
	9	51	1	32	0	83	
	10	34	0	35	0	69	(
	11	20	0	17	0	37	(
	12	12	0	16	0	28	(
	13	10	0	6	0	16	(
	14	3	0	7	0	10	(
	15	4	0	10	0	14	(
	16	5	0	3	0	8	(
	17	3	0	4	0	7	(
	18	1	0	5	0	6	(
	19	2	0	3	0	5	(
	20	2	0	1	0	3	(
	21	1	0	1	0	2	(
	22			2	0	2	(
	23			1	0	1	(

Table 7b. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Control Group

			Gend				
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group 50+	Number of Potential Impairing Disease Groups						
	34	1	0			1	(
	All	8,526	100	7,668	100	16,194	100
All Age	Number of Potential Impairing Disease Groups						
	0	39,363	72	36,779	80	76,142	76
	1	5,650	10	3,419	7	9,069	(
	2	4,043	7	2,465	5	6,508	(
	3	2,571	5	1,316	3	3,887	4
	4	1,277	2	573	1	1,850	2
	5	761	1	511	1	1,272	
	6	475	1	268	1	743	
	7	316	1	194	0	510	
	8	160	0	116	0	276	(
	9	121	0	55	0	176	(
	10	87	0	57	0	144	(
	11	42	0	25	0	67	(
	12	33	0	20	0	53	(
	13	18	0	11	0	29	(
	14	11	0	9	0	20	
	15	7	0	13	0	20	
	16	10	0	3	0	13	(
	17	7	0	4	0	11	
	18	2	0	5	0	7	

Table 7b. Number of Patients by Age, Gender, and Number of Driver Impairing Disease Groups Control Group

			Gend	der			
		Fema	ale	Male		Both	
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Potential Impairing Disease Groups						
	19	2	0	3	0	5	0
	20	2	0	2	0	4	0
	21	2	0	1	0	3	0
	22	2	0	2	0	4	0
	23			1	0	1	0
	34	1	0			1	0
	All	54,963	100	45,852	100	100815	100

Table 8a. Number of Patients by Age, Gender, and Number of Disease-Drug Conflicts Case Group

			Gend				
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Disease-Drug						
Under 50	Conflicts						
	0	15,172	98	12,543	99	27,715	98
	1	192	1	115	1	307	
	2	46	0	40	0	86	(
	3	32	0	12	0	44	(
	4	13	0	4	0	17	(
	5	5	0	3	0	8	(
	6	4	0	6	0	10	(
	7	1	0	2	0	3	(
	8	6	0	1	0	7	(
	9	2	0			2	(
	10			1	0	1	(
	12	1	0	1	0	2	(
	13	1	0			1	
	17	1	0			1	
	18	1	0			1	
	20	1	0			1	(
	27	1	0			1	
	All	15,479	100	12,728	100	28,207	10
50+	Number of Disease-Drug Conflicts						
	0	2,603	92	2,364	92	4,967	9:
	1	143	5	102	4	245	
	2	48	2	40	2	88	
	3	13	0	13	1	26	

Table 8a. Number of Patients by Age, Gender, and Number of Disease-Drug Conflicts Case Group

			Gender				
		Fema	ale	Ma]	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Disease-Drug						
50+	Conflicts						
	4	11	0	16	1	27	1
	5	5	0	6	0	11	C
	6	4	0	5	0	9	C
	7	7	0	3	0	10	C
	8	2	0	2	0	4	C
	9	1	0	3	0	4	C
	10	1	0	1	0	2	C
	11	1	0			1	(
	13	1	0			1	C
	18	1	0			1	C
	19	1	0			1	C
	21			1	0	1	C
	All	2,842	100	2,556	100	5,398	100
All Age	Number of Disease-Drug Conflicts						
	0	17,775	97	14,907	98	32,682	97
	1	335	2	217	1	552	2
	2	94	1	80	1	174	1
	3	45	0	25	0	70	(
	4	24	0	20	0	44	(
	5	10	0	9	0	19	(
	6	8	0	11	0	19	(
	7	8	0	5	0	13	(
	8	8	0	3	0	11	(

Table 8a. Number of Patients by Age, Gender, and Number of Disease-Drug Conflicts Case Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Disease-Drug Conflicts						
	9	3	0	3	0	6	0
	10	1	0	2	0	3	0
	11	1	0			1	0
	12	1	0	1	0	2	0
	13	2	0			2	0
	17	1	0			1	0
	18	2	0			2	0
	19	1	0			1	0
	20	1	0			1	0
	21			1	0	1	0
	27	1	0			1	0
	All	18,321	100	15,284	100	33,605	100

Table 8b. Number of Patients by Age, Gender, and Number of Disease-Drug Conflicts Control Group

			Gend	der			
		Fema	ale	Mal	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Disease-Drug						
Under 50	Conflicts						
	0	46,150	99	37,982	99	84,132	99
	1	193	0	137	0	330	C
	2	52	0	31	0	83	C
	3	19	0	14	0	33	C
	4	9	0	8	0	17	C
	5	3	0	3	0	6	C
	6	3	0	3	0	6	C
	7	3	0			3	C
	8	3	0	2	0	5	C
	10			2	0	2	C
	11			2	0	2	C
	25	1	0			1	C
	26	1	0			1	C
	All	46,437	100	38,184	100	84,621	100
50+	Number of Disease-Drug Conflicts						
	0	8,178	96	7,312	95	15,490	96
	1	209	2	205	3	414	3
	2	67	1	67	1	134	1
	3	29	0	30	0	59	(
	4	13	0	19	0	32	C
	5	10	0	7	0	17	(
	6	6	0	11	0	17	(
	7	3	0	2	0	5	(

Table 8b. Number of Patients by Age, Gender, and Number of Disease-Drug Conflicts Control Group

			Gend	der			
		Fema	ale	Mai	Le	Bot	:h
		N	PCTN	N	PCTN	N	PCTN
Age Group	Number of Disease-Drug						
50+	Conflicts	-					
	8	3	0	5	0	8	0
	9	1	0	4	0	5	0
	10	1	0	1	0	2	0
	11	2	0	2	0	4	c
	12			1	0	1	0
	17	2	0			2	0
	21	1	0	1	0	2	0
	24	1	0			1	0
	26			1	0	1	0
	All	8,526	100	7,668	100	16,194	100
All Age	Number of Disease-Drug Conflicts						
	0	54,328	99	45,294	99	99,622	99
	1	402	1	342	1	744	1
	2	119	0	98	0	217	0
	3	48	0	44	0	92	0
	4	22	0	27	0	49	0
	5	13	0	10	0	23	0
	6	9	0	14	0	23	0
	7	6	0	2	0	8	0
	8	6	0	7	0	13	0
	9	1	0	4	0	5	0
	10	1	0	3	0	4	0
	11	2	0	4	0	6	0

Table 8b. Number of Patients by Age, Gender, and Number of Disease-Drug Conflicts Control Group

		Gender					
		Fema	ale	Mal	Le	Bot	th
		N	PCTN	N	PCTN	N	PCTN
All Age	Number of Disease-Drug Conflicts						
	12			1	0	1	0
	17	2	0			2	0
	21	1	0	1	0	2	0
	24	1	0			1	0
	25	1	0			1	0
	26	1	0	1	0	2	0
	All	54,963	100	45,852	100	100815	100

HIC3	DRUG_NAME	OR	L_OR	U_OR	P-VALUE	А	В	С	D
H2D	BARBITURATES	7.50	2.35	23.91	0.00	10	4499	4	13523
H2W	TRICYCLIC ANTIDEPRESSANT/PHENOTHIAZINE COMBINATNS	4.50	0.75	26.93	0.10	3	4506	2	13525
H2X	TRICYCLIC ANTIDEPRESSANT/BENZODIAZEPINE COMBINATNS	4.00	0.90	17.87	0.07	4	4505	3	13524
ВЗА	MUCOLYTICS	3.00	0.19	47.96	0.44	1	4508	1	13526
H7P	ANTIPSYCHOTICS, DOPAMINE ANTAGONISTS, THIOXANTHENES	3.00	0.42	21.30	0.27	2	4507	2	13525
N1D	PLATELET REDUCING AGENTS	3.00	0.19	47.96	0.44	1	4508	1	13526
	URICOSURIC AGENTS	3.00	0.42	21.30	0.27	2	4507	2	13525
Z2F	MAST CELL STABILIZERS	3.00	1.05	8.55	0.04	7	4502	7	13520
J5G	BETA-ADRENERGICS AND GLUCOCORTICOIDS COMBINATION	2.40	0.95	6.08	0.06	8	4501	10	13517
	ANTITUSSIVES,NON-NARCOTIC	2.23	1.30	3.82	0.00	23	4486	31	13496
	ANALGESICS,NARCOTICS	2.22	1.98	2.49	0.00	557	3952	806	12721
	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,& SEROTONIN ANTAG	2.20	1.37	3.52	0.00	30	4479	41	13486
Н6Н	SKELETAL MUSCLE RELAXANTS	2.09	1.71	2.55	0.00	167	4342	247	13280
M9K	HEPARIN AND RELATED PREPARATIONS	2.00	0.33	11.97	0.45	2	4507	3	13524
H2F	ANTI-ANXIETY DRUGS	2.00	1.72	2.31	0.00	315	4194	490	13037
H4B	ANTICONVULSANTS	1.97	1.64	2.38	0.00	189	4320	295	13232
H7E	SEROTONIN-2 ANTAGONIST/REUPTAKE INHIBITORS (SARIS)	1.90	1.49	2.44	0.00	105	4404	167	13360
H7B	ALPHA-2 RECEPTOR ANTAGONIST ANTIDEPRESSANTS	1.88	0.85	4.13	0.12	10	4499	16	13511
J2A	BELLADONNA ALKALOIDS	1.85	1.08	3.19	0.03	21	4488	34	13493
S2J	ANTI-INFLAMMATORY TUMOR NECROSIS FACTOR INHIBITOR	1.80	0.43	7.53	0.42	3	4506	5	13522
	INSULINS	1.80	1.45	2.22	0.00	140	4369	237	13290
	HYPOTENSIVES,SYMPATHOLYTIC	1.79	1.17	2.74	0.01	34	4475	57	13470
H7C	SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS)	1.78	1.19	2.66	0.00	38	4471	64	13463
	EYE SULFONAMIDES	1.76	0.81	3.85	0.15	10	4499	17	13510
M9P	PLATELET AGGREGATION INHIBITORS	1.69	1.17	2.43	0.01	46	4463	83	13444
Q6R	EYE ANTIHISTAMINES	1.67	0.89	3.13	0.11	15	4494	27	13500
	ANTIEMETIC/ANTIVERTIGO AGENTS	1.63	1.17	2.28	0.00	54	4455	100	13427
	ANTIPARKINSONISM DRUGS,OTHER	1.62	0.99	2.66	0.05	25	4484	47	13480
	COUGH AND/OR COLD PREPARATIONS	1.62	1.19	2.20	0.00	63	4446	118	13409
H2S	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	1.59	1.40	1.81	0.00	380	4129	741	12786
B3J	EXPECTORANTS	1.58	1.28	1.94	0.00	142	4367	275	13252
	NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE	1.58	1.41	1.76	0.00	534	3975	1066	12461
	ANTIHISTAMINES	1.55	1.36	1.78	0.00	349	4160	693	12834
	GASTRIC ACID SECRETION REDUCERS	1.55	1.38	1.73	0.00	491	4018	995	12532
	ANALGESIC/ANTIPYRETICS, SALICYLATES	1.51	0.98	2.33	0.06	31	4478	62	13465
C4K	HYPOGLYCEMICS, INSULIN-RELEASE STIMULANT TYPE	1.50	1.28	1.76	0.00	238	4271	486	13041

C4M	HYPOGLYCEMICS, ALPHA-GLUCOSIDASE INHIB TYPE (N-S)	1.50	0.51	4.39	0.46	5	4504	10	13517
P3L	ANTITHYROID PREPARATIONS	1.50	0.45	4.98	0.51	4	4505	8	13519
C4L	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	1.49	1.23	1.80	0.00	169	4340	345	13182
H2E	SEDATIVE-HYPNOTICS,NON-BARBITURATE	1.48	1.16	1.88	0.00	100	4409	206	13321
A2A	ANTIARRHYTHMICS	1.46	0.83	2.56	0.19	18	4491	37	13490
H2U	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	1.41	1.15	1.73	0.00	139	4370	300	13227
H2V	ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE	1.41	0.72	2.75	0.32	13	4496	28	13499
C7A	HYPERURICEMIA TX - PURINE INHIBITORS	1.36	0.95	1.94	0.09	45	4464	100	13427
J5D	BETA-ADRENERGIC AGENTS	1.35	1.12	1.64	0.00	157	4352	352	13175
C4N	HYPOGLYCEMICS, INSULIN-RESPONSE ENHANCER (N-S)	1.35	1.01	1.80	0.04	68	4441	152	13375
	LOOP DIURETICS	1.35	1.10	1.65	0.00	136	4373	306	13221
S2A	COLCHICINE	1.34	0.70	2.59	0.37	13	4496	29	13498
W4A	ANTIMALARIAL DRUGS	1.34	0.90	2.00	0.15	36	4473	81	13446
R1L	POTASSIUM SPARING DIURETICS IN COMBINATION	1.33	1.10	1.61	0.00	161	4348	366	13161
A7B	VASODILATORS,CORONARY	1.31	1.04	1.66	0.02	103	4406	237	13290
M9L	ORAL ANTICOAGULANTS,COUMARIN TYPE	1.31	1.01	1.70	0.04	84	4425	193	13334
P3A	THYROID HORMONES	1.29	1.12	1.48	0.00	307	4202	730	12797
A1A	DIGITALIS GLYCOSIDES	1.29	0.96	1.72	0.09	67	4442	157	13370
J8A	ANOREXIC AGENTS	1.29	0.33	4.97	0.72	3	4506	7	13520
H3F	ANTIMIGRAINE PREPARATIONS	1.26	0.92	1.73	0.14	57	4452	136	13391
H3E	ANALGESIC/ANTIPYRETICS,NON-SALICYLATE	1.26	0.82	1.95	0.30	29	4480	69	13458
A9A	CALCIUM CHANNEL BLOCKING AGENTS	1.25	1.10	1.41	0.00	401	4108	985	12542
H2M	ANTI-MANIA DRUGS	1.24	0.63	2.43	0.53	12	4497	29	13498
A4D	HYPOTENSIVES, ACE INHIBITORS	1.23	1.11	1.37	0.00	534	3975	1330	12197
D4B	ANTACIDS	1.20	0.23	6.23	0.83	2	4507	5	13522
J2D	ANTICHOLINERGICS/ANTISPASMODICS	1.20	0.61	2.34	0.59	12	4497	30	13497
R1H	POTASSIUM SPARING DIURETICS	1.20	0.69	2.07	0.51	18	4491	45	13482
H7D	NOREPINEPHRINE AND DOPAMINE REUPTAKE INHIB (NDRIS)	1.19	0.87	1.62	0.27	57	4452	144	13383
J7B	ALPHA-ADRENERGIC BLOCKING AGENTS	1.19	0.95	1.49	0.13	112	4397	284	
J9B	ANTISPASMODIC AGENTS	1.15	0.41	3.24	0.79	5	4504	13	13514
A4A	HYPOTENSIVES, VASODILATORS	1.13	0.44	2.88	0.81	6	4503	16	13511
	OPHTHALMIC ANTIBIOTICS	1.05	0.68	1.63	0.82	27	4482	77	13450
	ANTI-PSYCHOTICS,PHENOTHIAZINES	1.05	0.44	2.48	0.91	7	4502	20	13507
	LIPOTROPICS	1.00	0.91	1.11	0.94	588	3921	1758	11769
	ALPHA/BETA-ADRENERGIC BLOCKING AGENTS	1.00	0.56	1.79	1.00	15	4494	45	13482
Q6I	EYE ANTIBIOTIC-CORTICOID COMBINATIONS	1.00	0.58	1.73	1.00	17	4492	51	13476
A4F	HYPOTENSIVES,ANGIOTENSIN RECEPTOR ANTAGONIST	0.99	0.80	1.22	0.94	118	4391	357	13170

Z4B	LEUKOTRIENE RECEPTOR ANTAGONISTS	0.99	0.64	1.52	0.96	28	4481	85	13442
R1F	THIAZIDE AND RELATED DIURETICS	0.97	0.79	1.18	0.74	126	4383	391	13136
J1B	CHOLINESTERASE INHIBITORS	0.96	0.46	2.04	0.92	9	4500	28	13499
H6B	ANTIPARKINSONISM DRUGS, ANTICHOLINERGIC	0.94	0.34	2.56	0.90	5	4504	16	13511
D4E	ANTI-ULCER PREPARATIONS	0.91	0.39	2.13	0.83	7	4502	23	13504
A4K	ACE INHIBITOR/CALCIUM CHANNEL BLOCKER COMBINATION	0.91	0.55	1.50	0.71	20	4489	66	13461
J7C	BETA-ADRENERGIC BLOCKING AGENTS	0.90	0.79	1.02	0.09	349	4160	1154	12373
Q6G	MIOTICS/OTHER INTRAOC. PRESSURE REDUCERS	0.83	0.62	1.12	0.22	56	4453	202	13325
J2B	ANTICHOLINERGICS, QUATERNARY AMMONIUM	0.80	0.27	2.41	0.69	4	4505	15	13512
D4F	ANTI-ULCER-H.PYLORI AGENTS	0.75	0.08	6.71	0.80	1	4508	4	13523
H7O	ANTIPSYCHOTICS, DOPAMINE ANTAGONISTS, BUTYROPHENONES	0.75	0.16	3.53	0.72	2	4507	8	13519
A4Y	HYPOTENSIVES,MISCELLANEOUS	0.74	0.49	1.12	0.15	29	4480	117	13410
Q6P	EYE ANTIINFLAMMATORY AGENTS	0.74	0.41	1.32	0.31	14	4495	57	13470
Q6J	MYDRIATICS	0.60	0.07	5.14	0.64	1	4508	5	13522
R1S	URINARY PH MODIFIERS	0.60	0.07	5.14	0.64	1	4508	5	13522
R1E	CARBONIC ANHYDRASE INHIBITORS	0.38	0.05	3.00	0.36	1	4508	8	13519

APPENDIX VIII. Table 1B Significant Odds Ratios for Driver Impairing Drugs

HIC3	DRUG_NAME	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
	BARBITURATES	7.50	2.35	23.91	0.00	10	4499	4	13523
Z2F	MAST CELL STABILIZERS	3.00	1.05	8.55	0.04	7	4502	7	13520
	ANTITUSSIVES,NON-NARCOTIC	2.23	1.30	3.82	0.00	23	4486	31	13496
НЗА	ANALGESICS,NARCOTICS	2.22	1.98	2.49	0.00	557	3952	806	12721
	ANTIPSYCHOTICS,ATYPICAL,DOPAMINE,& SEROTONIN ANTAG	2.20	1.37	3.52	0.00	30	4479	41	13486
H6H	SKELETAL MUSCLE RELAXANTS	2.09	1.71	2.55	0.00	167	4342	247	13280
	ANTI-ANXIETY DRUGS	2.00	1.72	2.31	0.00		4194	490	13037
H4B	ANTICONVULSANTS	1.97	1.64	2.38	0.00		4320	295	13232
H7E	SEROTONIN-2 ANTAGONIST/REUPTAKE INHIBITORS (SARIS)	1.90	1.49	2.44	0.00	105	4404	167	13360
J2A	BELLADONNA ALKALOIDS	1.85	1.08	3.19	0.03	21	4488	34	13493
C4G	INSULINS	1.80	1.45	2.22	0.00	140	4369	237	13290
A4B	HYPOTENSIVES,SYMPATHOLYTIC	1.79	1.17	2.74	0.01	34	4475	57	13470
H7C	SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS)	1.78	1.19	2.66	0.00	38	4471	64	13463
M9P	PLATELET AGGREGATION INHIBITORS	1.69	1.17	2.43	0.01	46	4463	83	13444
H6J	ANTIEMETIC/ANTIVERTIGO AGENTS	1.63	1.17	2.28	0.00	54	4455	100	13427
H6A	ANTIPARKINSONISM DRUGS,OTHER	1.62	0.99	2.66	0.05	25	4484	47	13480
B3K	COUGH AND/OR COLD PREPARATIONS	1.62	1.19	2.20	0.00	63	4446	118	13409
H2S	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	1.59	1.40	1.81	0.00	380	4129	741	12786
B3J	EXPECTORANTS	1.58	1.28	1.94	0.00	142	4367	275	13252
S2B	NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE	1.58	1.41	1.76	0.00	534	3975	1066	12461
Z2A	ANTIHISTAMINES	1.55	1.36	1.78	0.00	349	4160	693	12834
D4K	GASTRIC ACID SECRETION REDUCERS	1.55	1.38	1.73	0.00	491	4018	995	12532
	HYPOGLYCEMICS, INSULIN-RELEASE STIMULANT TYPE	1.50	1.28	1.76	0.00	238	4271	486	13041
C4L	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	1.49	1.23	1.80	0.00	169	4340	345	13182
H2E	SEDATIVE-HYPNOTICS,NON-BARBITURATE	1.48	1.16	1.88	0.00	100	4409	206	13321
H2U	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	1.41	1.15	1.73	0.00	139	4370	300	13227
J5D	BETA-ADRENERGIC AGENTS	1.35	1.12	1.64	0.00	157	4352	352	13175
	HYPOGLYCEMICS, INSULIN-RESPONSE ENHANCER (N-S)	1.35	1.01	1.80	0.04	68	4441	152	13375
R1M	LOOP DIURETICS	1.35	1.10	1.65	0.00	136	4373	306	13221
R1L	POTASSIUM SPARING DIURETICS IN COMBINATION	1.33	1.10	1.61	0.00	161	4348	366	13161
A7B	VASODILATORS,CORONARY	1.31	1.04	1.66	0.02	103	4406	237	13290
M9L	ORAL ANTICOAGULANTS,COUMARIN TYPE	1.31	1.01	1.70	0.04	84	4425	193	13334
РЗА	THYROID HORMONES	1.29	1.12	1.48	0.00	307	4202	730	12797
A9A	CALCIUM CHANNEL BLOCKING AGENTS	1.25	1.10	1.41	0.00		4108	985	12542
A4D	HYPOTENSIVES, ACE INHIBITORS	1.23	1.11	1.37	0.00	534	3975	1330	12197

ICDGROUP	ICDGROUPNAME	OR		U_OR	P-VALUE	Α	В	С	D
	HEAD TRAUMA	36.00	11.09	116.90	0.00	36	4473	3	13524
	LACTIC ACIDOSIS	15.00	1.75	128.40	0.01	5	4504	1	13526
	SUICIDAL BEHAVIOR	12.00	1.34	107.37	0.03	4	4505	1	13526
	DELIRIUM	10.50	2.18	50.55	0.00	7	4502	2	13525
	CARDIAC ARREST	9.00	0.94	86.53	0.06	3	4506	1	13526
	HEMOLYSIS	9.00	0.94	86.53	0.06	3	4506	1	13526
	PERSONALITY DISORDERS	9.00	1.82	44.59	0.01	6	4503	2	13525
	DROWSINESS	9.00	2.90	27.91	0.00	12	4497	4	13523
	HEMOLYTIC ANEMIA, HERED	6.00	0.54	66.17	0.14	2	4507	1	13526
	HALLUCINATIONS	6.00	0.54	66.17	0.14	2	4507	1	13526
	HEPATIC FAILURE	6.00	0.54	66.17	0.14	2	4507	1	13526
	OSTEOMALACIA	6.00	0.54	66.17	0.14	2	4507	1	13526
	INTRA-ABDOMINAL HEMORRHAGE	6.00	1.10	32.76	0.04	4	4505	2	13525
	ALCOHOLISM	5.44	2.95	10.01	0.00	29	4480	16	13511
	KETOACIDOSIS	5.40	1.81	16.11	0.00	9	4500	5	13522
1564	STRESS DISORDERS	5.40	1.81	16.11	0.00	9	4500	5	13522
3084	VISUAL DISTURBANCES	4.71	1.83	12.16	0.00	11	4498	7	13520
361	ANGIONEUROTIC EDEMA	4.50	0.75	26.93	0.10	3	4506	2	13525
2469	OCULAR HERPES SIMPLEX	4.50	0.75	26.93	0.10	3	4506	2	13525
	DEPRESSION	3.99	3.19	4.99	0.00	185	4324	145	13382
	PSYCHOSES, DRUG INDUCED	3.72	2.99	4.63	0.00	184	4325	155	13372
	PLEURAL EFFUSION-D	3.69	1.78	7.68	0.00	16	4493	13	13514
397	EXTRAPYRAMIDAL REACTIONS	3.60	1.56	8.33	0.00	12	4497	10	13517
	PULMONARY EMBOLUS	3.50	1.18	10.41	0.02	7	4502	6	13521
	SURGERY	3.46	1.65	7.27	0.00	15	4494	13	13514
	ANKYLOSING SPONDYLITIS	3.33	2.23	4.96	0.00	51	4458	46	13481
	PSYCHOSES	3.27	1.44	7.42	0.00	12	4497	11	13516
	HEPATIC CIRRHOSIS	3.25	1.48	7.12	0.00	13	4496	12	13515
3177	LACK OF COORDINATION	3.19	1.61	6.31	0.00	17	4492	16	13511
	INSOMNIA	3.16	1.69	5.92	0.00	20	4489	19	13508
	ALVEOLITIS,FIBROSING	3.00	0.19	47.96	0.44	1	4508	1	13526
	OBSTRUCTIVE UROPATHY	3.00	0.19	47.96	0.44	1	4508	1	13526
	RELATED TO FETAL OUTCOMES	3.00	0.19	47.96	0.44	1	4508	1	13526
1567	DRUG INDUCED PSYCH DISORDERS	3.00	0.19	47.96	0.44	1	4508	1	13526
	ALCOHOLIC LIVER DISEASE	3.00	0.42	21.30	0.27	2	4507	2	13525
2190	APPENDICITIS	3.00	0.42	21.30	0.27	2	4507	2	13525

ICDGROUP	ICDGROUPNAME	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
	MALIGNANT NEOPLASM, CNS	3.00	0.75	12.00	0.12	4	4505	4	13523
	PROTEINURIA	3.00	0.75	12.00	0.12	4	4505	4	13523
	BRAIN HEMORRHAGE	3.00	0.97	9.30	0.06	6	4503	6	13521
	HYPOTENSION	3.00	1.13	7.99	0.03	8	4501	8	13519
	SYNCOPE	3.00	1.76	5.11	0.00	27	4482	27	13500
	ANXIETY DISORDERS	2.87	2.03	4.04	0.00	64	4445	67	13460
	BIPOLAR DISORDER	2.81	1.39	5.69	0.00	15	4494	16	13511
	ANAPHYLACTIC SHOCK	2.78	1.77	4.34	0.00	37	4472	40	13487
	HEPATIC DYSFUNCTION	2.73	1.75	4.26	0.00	38	4471	43	13484
	HYPERTHYROIDISM	2.73	1.16	6.42	0.02	10	4499	11	13516
	CIRRHOSIS	2.63	0.95	7.24	0.06	7	4502	8	13519
	PULMONARY EDEMA	2.63	1.28	5.38	0.01	14	4495	16	13511
	GI OBSTRUCTION	2.57	0.86	7.65	0.09	6	4503	7	13520
	CNS EXCITATION	2.55	1.94	3.35	0.00	97	4412	116	13411
	BLURRED VSION	2.50	0.76	8.19	0.13	5	4504	6	13521
	DEEP VEIN THROMBOSIS	2.42	1.43	4.10	0.00	25	4484	31	13496
	BACK PAIN	2.42	2.03	2.88	0.00	234	4275	297	13230
	RADIATION THERAPY ICD	2.40	0.64	8.94	0.19	4	4505	5	13522
	HEPATOMEGALY WITH STEATOSIS	2.40	0.64	8.94	0.19	4	4505	5	13522
	ACUTE OTITIS MEDIA	2.40	1.24	4.63	0.01	16	4493	20	13507
	URINARY RETENTION	2.36	0.97	5.78	0.06	9	4500	12	13515
	FRACTURES AND INJURIES	2.34	2.04	2.69	0.00	382	4127	522	13005
	SYMPTOMS OF QUINIDINE-TOXICITY	2.31	1.58	3.37	0.00	48	4461	63	13464
	EPISTAXIS	2.25	0.78	6.48	0.13	6	4503	8	13519
	PANIC DISORDERS	2.25	0.78	6.48	0.13	6	4503	8	13519
	GERD	2.23	1.71	2.91	0.00	96	4413	130	13397
	CHOLELITHIASIS	2.21	1.11	4.41	0.02	14	4495	19	13508
	GALLSTONES	2.21	1.11	4.41	0.02	14	4495	19	13508
	LUPUS	2.18	0.88	5.42	0.09	8	4501	11	13516
	ANGINA, UNSTABLE	2.18	1.15	4.15	0.02	16	4493	22	13505
	DYSKINESIAS	2.17	1.06	4.42	0.03	13	4496	18	13509
	BRONCHOPNEUMONIA	2.17	1.44	3.27	0.00	39	4470	54	13473
	COND- REYE SYNDROME RELATED	2.15	1.50	3.09	0.00	51	4458	71	13456
	MUSCLE SPASMS	2.15	1.33	3.50	0.00	28	4481	39	13488
	MYELODYSPLASTIC SYNDROME	2.14	0.68	6.75	0.19	5	4504	7	13520
2203	EDEMA	2.13	1.40	3.25	0.00	37	4472	52	13475

ICDGROUP		OR	_	U_OR	P-VALUE	Α	В	С	D
	CHRONIC OTITIS MEDIA	2.13	1.30	3.47	0.00	28	4481	40	13487
102	CONGESTIVE HEART FAILURE	2.10	1.53	2.89	0.00	65	4444	94	13433
	ASTHMA	2.08	1.55	2.80	0.00	75	4434	109	13418
	EPILEPSY	2.08	0.89	4.86	0.09	9	4500	13	13514
	DIABETES MELLITUS I AND II	2.07	1.81	2.37	0.00	372	4137	568	12959
	TEST	2.07	1.81	2.37	0.00	372	4137	568	12959
	SYMPTOMS OF ERGOTISM	2.07	1.49	2.88	0.00	60	4449	87	13440
	ABDOMINAL PAIN	2.04	1.57	2.65	0.00	95	4414	142	13385
	SYMPTOMS OF GI IRRITATION	2.01	1.63	2.49	0.00	144	4365	218	13309
	CRYSTALLURIA	2.00	0.33	11.97	0.45	2	4507	3	13524
	COAGULATION DEFECTS	2.00	0.90	4.45	0.09	10	4499	15	13512
	ANEURYSM	1.97	1.20	3.25	0.01	26	4483	40	13487
	DIARRHEA, GASTROENTERITIS	1.97	1.62	2.39	0.00	175	4334	273	13254
	COPD	1.89	1.47	2.43	0.00	101	4408	163	13364
	HEPATITIS, ALLER CHOLESTATIC	1.88	0.61	5.73	0.27	5	4504	8	13519
	HEPATITIS,PELIOSIS	1.88	0.61	5.73	0.27	5	4504	8	13519
	BLEEDING RISK DIAGNOSIS	1.86	1.03	3.35	0.04	18	4491	29	13498
	DERMATITIS,MACULOPAPULAR	1.86	0.93	3.71	0.08	13	4496	21	13506
	SLEEP APNEA	1.83	1.26	2.67	0.00	44	4465	72	13455
1381	ISCHEMIC HEART DISEASE	1.83	1.48	2.27	0.00	142	4367	240	13287
	MILD FUNGAL INFECTIONS	1.83	1.31	2.54	0.00	57	4452	94	13433
919	SYMPTOMS OF DIG-TOXICITY	1.82	1.46	2.28	0.00	126	4383	211	13316
	DIARRHEA	1.75	1.13	2.70	0.01	32	4477	55	13472
378	MYOCARDIAL ISCHEMIA	1.74	1.07	2.86	0.03	25	4484	43	13484
1683	HYPERSENSITIVITY REACTIONS	1.71	1.47	2.00	0.00	264	4245	472	13055
	PERIPHERAL NEUROPATHY	1.70	1.05	2.74	0.03	26	4483	46	13481
	CARDIOVASCULAR DISEASE	1.69	1.52	1.88	0.00	620	3889		12353
	RENAL FAILURE-GENERAL	1.69	1.02	2.80	0.04	24	4485	43	13484
	STROKE	1.69	1.07	2.67	0.03	29	4480	52	13475
	VIRAL ILLNESSES	1.69	0.97	2.93	0.06	20	4489	36	13491
2673	POLYMYALGIA RHEUMATICA	1.67	0.56	4.97	0.36	5	4504	9	13518
	GI HEMORRHAGE	1.66	1.28	2.16	0.00	90	4419	163	13364
	HYPERTENSION	1.65	1.48	1.84	0.00	557	3952	1075	12452
2185	COLOSTOMY/ ILEOSTOMY	1.64	0.61	4.42	0.33	6	4503	11	13516
	ARTHROPATHIES, OTHER	1.64	0.61	4.42	0.33	6	4503	11	13516
2652	OSTEOSARCOMA	1.64	0.61	4.42	0.33	6	4503	11	13516

ICDGROUP	ICDGROUPNAME	OR		U_OR	P-VALUE	Α	В	С	D
	VENTRICULAR ARRHYTHMIA	1.64	0.81	3.31	0.17	12	4497	22	13505
	LACTIC ACIDOSIS SYMPTOMS	1.63	1.26	2.11	0.00	88	4421	162	13365
	INTERSTITIAL PNEUMONITIS	1.62	0.64	4.05	0.31	7	4502	13	13514
	INTERSTITIAL PNEUMONITIS	1.62	0.64	4.05	0.31	7	4502	13	13514
370	LEUKOPENIA	1.62	0.64	4.05	0.31	7	4502	13	13514
	RENAL DISEASE	1.61	0.86	3.01	0.14	15	4494	28	13499
	DIZZINESS	1.60	1.09	2.35	0.02	41	4468	78	13449
	CNS DEMYELINATING DIS	1.57	0.76	3.26	0.22	11	4498	21	13506
	RESPIRATORY INFECTIONS	1.56	1.35	1.82	0.00	270	4239	527	13000
	COUGH	1.56	1.15	2.11	0.00	64	4445	124	13403
	ARTHRITIS, OSTEOARTHRITIS	1.54	1.12	2.11	0.01	59	4450	117	13410
	BLEEDING	1.51	1.11	2.05	0.01	62	4447	123	13404
	CEREBRAL PALSY	1.50	0.14	16.54	0.74	1	4508	2	13525
	RHABDOMYOLYSIS	1.50	0.14	16.54	0.74	1	4508	2	13525
	CARDIAC VALVE FIBROSIS	1.50	0.14	16.54	0.74	1	4508	2	13525
	PRERENAL AZOTEMIA	1.50	0.27	8.19	0.64	2	4507	4	13523
1204	HEMOPTYSIS	1.50	0.27	8.19	0.64	2	4507	4	13523
353	ILEUS, PARALYTIC	1.50	0.38	6.00	0.57	3	4506	6	13521
	NASAL POLYPS	1.50	0.38	6.00	0.57	3	4506	6	13521
	CROHN'S DISEASE	1.50	0.56	4.00	0.42	6	4503	12	13515
406	PULMONARY FIBROSIS	1.50	0.61	3.72	0.38	7	4502	14	13513
1321	PULMONARY DISORDERS	1.50	0.61	3.72	0.38	7	4502	14	13513
	NUTRITIONAL/ NEURO DEFICIENCY	1.50	0.82	2.73	0.19	16	4493	32	13495
	HEMATEMESIS	1.50	0.91	2.47	0.11	23	4486	46	13481
273	ARRHYTHMIAS	1.50	1.16	1.94	0.00	89	4420	180	13347
	RENAL FAILURE W/O HTN	1.47	0.82	2.64	0.20	17	4492	35	13492
	HEMATOLOGIC DISORDERS	1.44	1.13	1.85	0.00	95	4414	199	13328
	ANEMIA,DEF.FE,OTH	1.43	0.95	2.15	0.08	35	4474	74	13453
268	ANGINA, PECTORIS	1.42	0.96	2.09	0.08	38	4471	81	13446
	DEMENTIA	1.41	0.61	3.28	0.42	9	4500	20	13507
	OBESITY	1.40	0.93	2.10	0.11	34	4475	73	13454
1082	HEMATURIA	1.39	0.91	2.12	0.12	32	4477	69	13458
	HEART BLOCK	1.38	0.70	2.74	0.35	12	4497	26	13501
868	THYROID DISEASE	1.37	1.09	1.73	0.01	108	4401	237	13290
341	HEPATITIS	1.36	0.65	2.88	0.42	10	4499	22	13505
275	ATRIAL FIBRILLATION	1.36	0.96	1.93	0.08	47	4462	104	13423

ICDGROUP	ICDGROUPNAME	OR		U_OR	P-VALUE	Α	В	С	D
	COLON POLYPS	1.36	0.87	2.13	0.18	28	4481	62	13465
	DEHYDRATION	1.35	0.61	2.96	0.45	9	4500	20	13507
	VOLUME DEPLETION	1.35	0.61	2.96	0.45	9	4500	20	13507
	OSTEOPOROSIS	1.33	0.92	1.94	0.13	41	4468	93	13434
	KIDNEY STONES	1.32	0.72	2.43	0.37	15	4494	34	13493
	GOUT	1.30	0.62	2.74	0.48	10	4499	23	13504
352	HYPOTHYROIDISM	1.30	1.02	1.66	0.04	93	4416	215	13312
	APLASTIC ANEMIA	1.29	0.33	4.97	0.72	3	4506	7	13520
	TELANGLECTASIS	1.29	0.33	4.97	0.72	3	4506	7	13520
	ARTHRITIS, PSORIATIC	1.29	0.33	4.97	0.72	3	4506	7	13520
	GASTRITIS	1.27	0.81	1.98	0.30	27	4482	64	13463
	PANCYTOPENIA	1.23	0.87	1.74	0.23	46	4463	112	13415
	BRADYCARDIA	1.20	0.38	3.83	0.76	4	4505	10	13517
	GI ULCER	1.20	0.73	1.97	0.47	22	4487	55	13472
	NEUROPATHIES	1.17	0.49	2.79	0.73	7	4502	18	13509
2563	HYPERLIPIDEMIA-2	1.13	0.99	1.29	0.07	332	4177	890	12637
270	ANOREXIA	1.13	0.30	4.24	0.86	3	4506	8	13519
1083	PRURITUS	1.13	0.30	4.24	0.86	3	4506	8	13519
371	LIPID ABNORMALITIES	1.12	0.99	1.28	0.08	343	4166	925	12602
267	ANEMIAS, OTHER	1.12	0.78	1.61	0.54	41	4468	110	13417
	AGRANULOCYTOSIS	1.09	0.35	3.43	0.88	4	4505	11	13516
279	BOWEL OBSTRUCTION	1.09	0.35	3.43	0.88	4	4505	11	13516
388	NEUTROPENIA	1.09	0.35	3.43	0.88	4	4505	11	13516
2066	HYPERSECRETORY STATES	1.09	0.35	3.43	0.88	4	4505	11	13516
1101	SUBARACHNOID HEMORRHAGE	1.00	0.10	9.61	1.00	1	4508	3	13524
	POLYMYOSITIS	1.00	0.10	9.61	1.00	1	4508	3	13524
	GLAUCOMA,NARROW ANGLE	1.00	0.20	4.95	1.00	2	4507	6	13521
	PARKINSONISM,PRIMARY	1.00	0.32	3.10	1.00	4	4505	12	13515
	ARTHRITIS, RHEUMATOID	1.00	0.63	1.59	1.00	24	4485	72	13455
	MYELOSUPPRESSION	0.94	0.34	2.56	0.90	5	4504	16	13511
	STEATORRHEA	0.92	0.48	1.76	0.81	12	4497	39	13488
	COLITIS	0.90	0.25	3.27	0.87	3	4506	10	13517
	MENOPAUSE	0.89	0.52	1.54	0.69	17	4492	57	13470
338	HEMORRHAGIC DISORDERS	0.88	0.33	2.39	0.81	5	4504	17	13510
374	MALIGNANT MELANOMA	0.86	0.18	4.13	0.85	2	4507	7	13520
376	ANEMIA,MEGALOBLASTIC	0.86	0.18	4.13	0.85	2	4507	7	13520

ICDGROUP	ICDGROUPNAME	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
	GLAUCOMA	0.84	0.53	1.32	0.44	24	4485	86	13441
	AV BLOCK II TO III	0.83	0.31	2.24	0.72	5	4504	18	13509
	BREAST CANCER, FEMALE	0.83	0.51	1.34	0.45	21	4488	76	13451
	ALBUMINURIA/ NEPHROPATHY	0.83	0.38	1.81	0.64	8	4501	29	13498
	CANCER	0.83	0.65	1.04	0.11	91	4418	330	13197
	UREMIA	0.82	0.23	2.93	0.76	3	4506	11	13516
	PULMONARY EMBOLUS, PREVIOUS	0.75	0.08	6.71	0.80	1	4508	4	13523
	HYPERCALCEMIA	0.75	0.08	6.71	0.80	1	4508	4	13523
	SEVERE FUNGAL INFECTIONS	0.75	0.16	3.53	0.72	2	4507	8	13519
	HIV	0.75	0.16	3.53	0.72	2	4507	8	13519
	THROMBOPHLEBITIS	0.75	0.21	2.66	0.66	3	4506	12	13515
	PROSTATIC HYPERTROPHY	0.75	0.33	1.72	0.50	7	4502	28	13499
2013	COLON, IRRITABLE	0.69	0.34	1.43	0.32	9	4500	39	13488
	BENIGN PROSTATIC HYPERTROPHY	0.67	0.29	1.54	0.34	7	4502	31	13496
405	PSORIASIS	0.63	0.31	1.29	0.20	9	4500	43	13484
278	BLOOD DYSCRASIAS	0.60	0.07	5.14	0.64	1	4508	5	13522
394	PANCREATITIS	0.60	0.07	5.14	0.64	1	4508	5	13522
319	ENCEPHALOPATHIC SYNDROME	0.43	0.05	3.48	0.43	1	4508	7	13520
2646	ALZHEIMER	0.43	0.05	3.48	0.43	1	4508	7	13520
865	THROMBOCYTOPENIA, SECONDARY	0.38	0.05	3.00	0.36	1	4508	8	13519
392	OPTIC NEURITIS	0.33	0.04	2.63	0.30	1	4508	9	13518
866	THROMBOCYTOPENIA	0.30	0.04	2.34	0.25	1	4508	10	13517
372	LYMPHADENOPATHY	0.14	0.02	1.01	0.05	1	4508	22	13505

ICDGROUP	ICDGROUPNAME	OR	L_OR	U_OR	P-VALUE	Α	В	С	D	
	HEAD TRAUMA	36.00		116.90	0.000	36	4473	3	13524	
369	LACTIC ACIDOSIS	15.00	1.75	128.40	0.013	5	4504	1	13526	ACIDOSIS
1894	SUICIDAL BEHAVIOR/NEUROTIC DISORDER UNSPEC.	12.00	1.34	107.37	0.026	4	4505	1	13526	neurotic disorder unspec
	DELIRIUM									DELIRIUM TREMENS,
										DELIRIUM ACUTE,
1702		10.50	2.18	50.55	0.003	7	4502	2	13525	SUBACUTE
	DROWSINESS									CONSCIOUSNESS ALTER
3178		9.00	2.90	27.91	0.000	12	4497	4	13523	
	PERSONALITY DISORDERS									neurotic disorder,
										PERSONALITY
1563		9.00		44.59	0.007	6	4503	2		DISORDERS
	INTRA-ABDOMINAL HEMORRHAGE	6.00		32.76	0.039	4	4505	2	13525	
	ALCOHOLISM	5.44	2.95	10.01	0.000	29	4480	16	13511	
	KETOACIDOSIS									DIABETIC KETOACIDOSIS
945		5.40		16.11	0.002	9	4500	5	13322	
1564	STRESS DISORDERS	5.40	1.81	16.11	0.002	9	4500	5	13522	STRESS DISORDERS
	VISUAL DISTURBANCES									VISUAL DISTURBANCES
3084		4.71	1.83	12.16	0.001	11	4498	7	13520	NOS
	DEPRESSION	3.99	3.19	4.99	0.000	185	4324	145	13382	
	PSYCHOSES, DRUG INDUCED									drug induced sx,
										schizophrenia, mania,
										depression, confusion,
2662		3.72		4.63	0.000					anxiety, paranoia
	PLEURAL EFFUSION-D	3.69	1.78	7.68	0.000	16	4493	13	13514	
	EXTRAPYRAMIDAL REACTIONS									TREMOR,
397		3.60		8.33	0.003	12		10		EXTRAPYRAMIDAL SX
	PULMONARY EMBOLUS	3.50	1.18	10.41	0.024	7	4502	6	13521	
	SURGERY	3.46		7.27	0.001	15		13	13514	
	ANKYLOSING SPONDYLITIS	3.33	2.23	4.96	0.000	51	4458	46	13481	
	PSYCHOSES	3.27	1.44	7.42	0.005	12	4497	11	13516	
	HEPATIC CIRRHOSIS	3.25	1.48	7.12	0.003	13	4496	12	13515	
	LACK OF COORDINATION	3.19	1.61	6.31	0.001	17	4492	16	13511	
	INSOMNIA	3.16		5.92	0.000	20	4489	19	13508	
	SYNCOPE	3.00	1.76	5.11	0.000	27	4482	27	13500	
351	HYPOTENSION	3.00	1.13	7.99	0.028	8	4501	8	13519	

ICDGROUP	ICDGROUPNAME	OR		U_OR	P-VALUE	Α	В	С	D	
1562 ANX	IETY DISORDERS	2.87	2.03	4.04	0.000	64	4445	67		anxiety, panic, phobias
315 BIPC	DLAR DISORDER	2.81	1.39	5.69	0.004	15	4494	16	13511	
ANA	PHYLACTIC SHOCK									urticaria, wheezing, anaphylactic shock, adverse
360		2.78	1.77	4.34	0.000	37	4472	40	13487	eff of med, allergy unspec
339 HEP	ATIC DYSFUNCTION	2.73	1.75	4.26	0.000	38	4471	43	13484	
348 HYP	ERTHYROIDISM	2.73	1.16	6.42	0.022	10	4499	11	13516	
407 PULI	MONARY EDEMA	2.63	1.28	5.38	0.008	14	4495	16	13511	
CNS	EXCITATION									nervousness, headache,
1409		2.55	1.94	3.35	0.000	97	4412	116	13411	confusion
311 DEE	P VEIN THROMBOSIS	2.42	1.43	4.10	0.001	25	4484	31	13496	
3203 BAC	K PAIN	2.42	2.03	2.88	0.000	234	4275	297	13230	sciatica, lumbago, backache
2642 ACU	TE OTITIS MEDIA	2.40	1.24	4.63	0.009	16	4493	20	13507	
	CTURES AND INJURIES	2.34	2.04	2.69	0.000	382	4127	522	13005	
SYM	IPTOMS OF QUINIDINE-TOXICITY									hypotension, bradycardia, v tach, av block, acute lung
1972		2.31	1.58	3.37	0.000	48	4461	63	13464	edema
2062 GER	.D	2.23	1.71	2.91	0.000	96	4413	130	13397	reflux esophagitis
304 CHO	DLELITHIASIS	2.21	1.11	4.41	0.024	14	4495	19	13508	
327 GAL	LSTONES	2.21	1.11	4.41	0.024	14	4495	19	13508	
269 ANG	SINA, UNSTABLE	2.18	1.15	4.15	0.018	16	4493	22	13505	
283 BRO	NCHOPNEUMONIA	2.17	1.44	3.27	0.000	39	4470	54	13473	pneumonias
317 DYS	KINESIAS	2.17	1.06	4.42	0.034	13		18	13509	
1703 CON	ID- REYE SYNDROME RELATED	2.15	1.50	3.09	0.000	51	4458	71	13456	
3205 MUS	SCLE SPASMS	2.15	1.33	3.50	0.002	28	4481	39		spasm of muscle
2203 EDE	MA	2.13	1.40	3.25	0.000	37	4472	52	13475	
2644 CHR	ONIC OTITIS MEDIA	2.13	1.30	3.47	0.002	28	4481	40	13487	
102 CON	IGESTIVE HEART FAILURE	2.10	1.53	2.89	0.000	65	4444	94	13433	
274 ASTI		2.08	1.55	2.80	0.000	75	4434	109	13418	
	BETES MELLITUS I AND II	2.07	1.81	2.37	0.000		4137	568	12959	
1942 TES		2.07	1.81	2.37	0.000		4137	568	12959	
	IPTOMS OF ERGOTISM	2.07	1.49	2.88	0.000	60		87	13440	
	OMINAL PAIN	2.04	1.57	2.65	0.000	95	4414	142		abdominal pain unspec
2443 SYM	IPTOMS OF GI IRRITATION	2.01	1.63	2.49	0.000	144	4365	218	13309	esophagitis, gastritis

ICDGROUP	ICDGROUPNAME	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
	ANEURYSM								cva, subarachnoid
1880		1.97	1.20	3.25	0.008	26	4483	40	13487 hemorrhage
	DIARRHEA, GASTROENTERITIS								abdominal pain, enteritis,
1282		1.97	1.62	2.39	0.000	175	4334	273	13254 ulcerative colitis
309	COPD	1.89	1.47	2.43	0.000	101	4408	163	13364
200	BLEEDING RISK DIAGNOSIS	1.86	1.03	3.35	0.038	18	4491	29	13498
2971	SLEEP APNEA	1.83	1.26	2.67	0.002	44	4465	72	13455
1381	ISCHEMIC HEART DISEASE	1.83	1.48	2.27	0.000		4367	240	13287 coronary atherosclerosis
101	MILD FUNGAL INFECTIONS	1.83	1.31	2.54	0.000	57	4452	94	13433
	SYMPTOMS OF DIG-TOXICITY								nausea, vomiting, visual
									disturbances, arrhythmias,
									hypokalemia,
919		1.82	1.46	2.28	0.000		4383		13316 hypomagnesemia
	DIARRHEA	1.75	1.13	2.70	0.012	32	4477	55	13472
	MYOCARDIAL ISCHEMIA	1.74	1.07	2.86	0.027	25	4484	43	13484
	HYPERSENSITIVITY REACTIONS								allergy, wheezing, shock,
1683		1.71	1.47	2.00	0.000		4245	472	13055 hypotension
	PERIPHERAL NEUROPATHY	1.70	1.05	2.74	0.031	26	4483	46	13481
	CARDIOVASCULAR DISEASE	1.69	1.52	1.88	0.000	620	3889	1174	12353 htn, chf, cardiomyopathy
	RENAL FAILURE-GENERAL								diabetic & hypertensive
									ropol dio pouto ropol foiluro
561		1.69	1.02	2.80	0.041	24	4485	43	13484
	STROKE	1.69	1.07	2.67	0.025	29	4480	52	13475 cva, cerebral thrombosis
	GI HEMORRHAGE	1.66	1.28	2.16	0.000	90	4419	163	13364 gi ulcer w/hemorrhage
	HYPERTENSION	1.65	1.48	1.84	0.000		3952	1075	12452
	LACTIC ACIDOSIS SYMPTOMS	1.63	1.26	2.11	0.000	88	4421	162	13365
	DIZZINESS	1.60	1.09	2.35	0.017	41	4468	78	13449
	RESPIRATORY INFECTIONS	1.56	1.35	1.82	0.000		4239	527	13000 sinusitis, bronchitis
	COUGH	1.56	1.15	2.11	0.004	64	4445	124	13403
	ARTHRITIS, OSTEOARTHRITIS	1.54	1.12	2.11	0.008	59	4450	117	13410
	BLEEDING	1.51	1.11	2.05	0.008	62	4447	123	13404
	ARRHYTHMIAS	1.50	1.16	1.94	0.002	89	4420	180	13347
	HEMATOLOGIC DISORDERS								anemias, sickle cell,
									thrombocytopenia, blood
333		1.44	1.13	1.85	0.004	95	4414		13328 disease unspec.
868	THYROID DISEASE	1.37	1.09	1.73	0.007	108	4401	237	13290

ICDGROUP	ICDGROUPNAME	OR	L_OR	U_OR	P-VALUE	Α	В	С	D	
352 HYPC	DTHYROIDISM	1.30	1.02	1.66	0.035	93	4416	215	13312	
372 LYMF	PHADENOPATHY	0.14	0.02	1.01	0.051	1	4508	22	13505	

HAB W3B	DRUG DRUG	DRUG 1	DRUG 2	OR	L OR	U OR	P-VALUE	Α	В	С	D
SEROTOMN NOGEPINEPHRING 19320											
	114D W3D		ANTII ONGAL AGENTO	21.00	2.50	170.03	0.00	,	4302	- '	13320
## HTT SRELETAL MUSCLE RELAXANIS AMPLESYCHOTICS ATTPICAL_DOP	H7C W1Q		QUINOLONES	21 00	2 58	170 69	0.00	7	4502	1	13526
SHEHT SKELETAL MUSCLE RELAXANTS AMINEA, SEROTONIN ANTAG 18.00 2.17 149.52 0.01 6 4503 1 13526	III O W I Q	TREET THE HATTE (CHARC)		21.00	2.00	170.00	0.00	•	1002	•	10020
HYPOGAYCEMICS, INSULIN- ABSORBABLE SULFONAMIDES 15.00 1.75 128.40 0.01 5 4504 1 13320 13411 13	H6H H7T	SKELETAL MUSCLE RELAXANTS		18.00	2.17	149.52	0.01	6	4503	1	13526
ABORRABE SULFONAMDES 1,000 1,75 128,40 0,01 5 4504 1 13326											
SEROTONIN SPECIFIC REUPTAKE ALPHA-2 RECEPTOR NHIBITOR (SSRIS)	C4K W2A		ABSORBABLE SULFONAMIDES	15.00	1.75	128.40	0.01	5	4504	1	13526
Hear Day Manifold Hear Day		SEROTONIN SPECIFIC REUPTAKE	ALPHA-2 RECEPTOR								
TRICYCLIC ANTIDEPRESSANTS & ANTIPSYCHOTICS ATTPICAL DOP NO. 50	H2S H7B	INHIBITOR (SSRIS)	ANTAGONIST ANTIDEPRESSANTS	15.00	1.75	128.40	0.01	5	4504	1	13526
	H4B J2A	ANTICONVULSANTS	BELLADONNA ALKALOIDS	12.00	1.34	107.37	0.03	4	4505	1	13526
HYPOGLYCEMICS ALFHA- GASTRIG ACID SECRETION 9.00 0.94 86.53 0.06 3 4506 1 13526		TRICYCLIC ANTIDEPRESSANTS &	ANTIPSYCHOTICS, ATYPICAL, DOP								
CAMID MAX. GLUCOSIDASE INHIB TYPE INS. REDUCERS 9.00 0.94 8.5.3 0.00 3 4500 2 13525	H2U H7T	REL. NON-SEL. RU-INHIB	AMINE,& SEROTONIN ANTAG	10.50	2.18	50.55	0.00	7	4502	2	13525
		HYPOGLYCEMICS, ALPHA-	GASTRIC ACID SECRETION								
SEROTONIN SPECIFIC REUPTAKE SEROTONIN NOREPINEPHRINE REUPTAKE	C4M D4K				0.94	86.53	0.06				13526
128 H7C	H2F W1K			7.50	1.46	38.66	0.02	5	4504	2	13525
ANTI-RARPHYTHMICS QUINOLONES 6.00 0.54 66.17 0.14 2 4507 1 13626 B3J H2V EXPECTORANTS HYDERKINESIS, STIMULANT-TYPE 6.00 0.54 66.17 0.14 2 4507 1 13626 C4G H3E INSULINS SALICYLATE 6.00 0.54 66.17 0.14 2 4507 1 13626 C4G H3E INSULINS SALICYLATE 6.00 0.54 66.17 0.14 2 4507 1 13626 C4G H7C INSULINS SALICYLATE 6.00 0.54 66.17 0.14 2 4507 1 13626 C4G H7C INSULINS SALICYLATE 6.00 0.54 66.17 0.14 2 4507 1 13626 C4G H7C INSULINS SALICYLATE 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS) 1 LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WIK FEGONS-SULFONYLUREAS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6.00 0.54 66.17 0.14 2 4507 1 13626 C4L WILL FEGONS 6											
ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE 6.00 0.54 66.17 0.14 2 4507 1 13526			` ,								
ANALOGESICANTIPERTORS HYPERRINESIS, STIMULANT-TYPE 6,00 0.54 66.17 0.14 2 4807 1 13526	A2A W1Q	ANTIARRHYTHMICS	QUINOLONES	6.00	0.54	66.17	0.14	2	4507	1	13526
ANALOGESICANTIPERTORS HYPERRINESIS, STIMULANT-TYPE 6,00 0.54 66.17 0.14 2 4807 1 13526											
ANALGESIC/ANTIPYRETICS, NON. ANALGESIC/ANTIPYRETICS, NON. ANALGESIC/ANTIPYRETICS, NON. ANALGESIC/ANTIPYRETICS, NON. ANALGESIC/ANTIPYRETICS, SIGUANDE TYPE ANTI-NARCOLEPSY/ANTI- HYPERRINESIS, STIMULANT-TYPE ANTI-NARCOLEPS								_			
AGA FIGE INSULINS SALICYLATE 6.00 0.54 66.17 0.14 2 4507 1 13526	B3J H2V	EXPECTORANTS		6.00	0.54	66.17	0.14	2	4507	1	13526
CAG H7C INSULINS SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS) 6.00 1.10 32.76 0.04 4 4505 2 13525	0404405	INCLU INC		0.00	0.54	00.47		_	4505		40500
ADDITION	C4G H3E	INSULINS		6.00	0.54	66.17	0.14	2	4507	1	13526
HYPOGLYCEMICS, BIGUANDIE HYPOGLYCEMICS, BIGUANDIE HYPOGLYCEMICS, BIGUANDIE HYPOGLYCEMICS, INSULIN- SEROTONIN-NOREPINE HZP HYPOGLYCEMICS, INSULIN- SEROTONIN-NOREPINE HZP HYPOGLYCEMICS, INSULIN- SEROTONIN-NOREPINE HZP HYPOGLYCEMICS, INSULIN- HZP	C4C H7C	INCLUME		6.00	1 10	20.70	0.04	4	4505	0	12505
DALLIVIK TYPE (NON-SULFONY-LUREAS) LINCOSAMIDES 6.00 0.54 66.17 0.14 2 4507 1 13528	C4G H/C		REUPTAKE-INHIB (SNKIS)	6.00	1.10	32./6	0.04	4	4505	2	13525
HYPOGLYCEMICS, INSULIN- SEROTONIN-NOREPINEPHRINE CAN 1	CAL MAIX	-	LINCOCAMIDEC	0.00	0.54	CC 47	0.44	2	4507	4	42500
CAN H7C RESPONSE ENHANCER (N.S) REUPTAKE-INHIE (SINRIS) 6.00 0.54 66.17 0.14 2 4507 1 13526	C4L WTK			0.00	U.54	00.17	0.14	- 2	4507	1	13526
APPLICATION ARCHITECT ANALGESICS,NARCOTICS 6.00 0.54 66.17 0.14 2 4507 1 15526	CAN UZC			6.00	0.54	66 17	0.14	2	4507	4	12526
APPI-00			,								
ALPHA-2 RECEPTOR ANTI-ANXIETY DRUGS ANTI-ANXIETY DR											
ANTI-ANXIETY DRUGS ANTAGONIST ANTIDEPRESSANTS 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE MACROLIDES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE OUINOLONES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE OUINOLONES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANALGESIC/ANTIPYRETICS, ANTICOAGULANTS, COUMARIN TYPE 6.00 0.54 66.17 0.14 2 4507 1 13526 ANALGESIC/ANTIPYRETICS, ANTICOAGULANTS, COUMARIN TYPE 6.00 0.54 66.17 0.14 2 4507 1 13526 HAB W3A ANTICOAGULANTS ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 HAB W3A ANTICOAGULANTS ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 HACH HAB W3A ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 HACH HAB W3A ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTIFUNGAL AGENTS	HZD H4B	DARBITORATES	ANTICONVOLSANTS	0.00	1.50	23.99	0.01	U	4505	3	13324
ANTI-ANXIETY DRUGS ANTAGONIST ANTIDEPRESSANTS 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE MACROLIDES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE OUINOLONES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE OUINOLONES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANALGESIC/ANTIPYRETICS, ANTICOAGULANTS, COUMARIN TYPE 6.00 0.54 66.17 0.14 2 4507 1 13526 ANALGESIC/ANTIPYRETICS, ANTICOAGULANTS, COUMARIN TYPE 6.00 0.54 66.17 0.14 2 4507 1 13526 HAB W3A ANTICOAGULANTS ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 HAB W3A ANTICOAGULANTS ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 HACH HAB W3A ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 HACH HAB W3A ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTIFUNGAL AGENTS			ALPHA-2 RECEPTOR								
ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE MACROLIDES 6.00 0.54 66.17 0.14 2 4507 1 13526 ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE ORAL ANTI-NARCOLEPSY/ANTI- HYPERLINESIS, STIMULANT-TYPE ORAL ANTI-NARCOLEPSY/ANTI- HYPERLINESIS, STIMULANT-TYPE ORAL ANTI-NARCOLEPSY/ANTI- HYPERLINESIS, STIMULANT-TYPE ORAL ANTI-NARCOLEPSY/ANTI- HAVE ANTI-NARCOLEPSY/ANTI-NARCOLEPSY/ANTI- HAVE ANTI-NARCOLEPSY/ANTI-NAR	H2F H7R	ANTI-ANXIETY DRUGS		6.00	0.54	66 17	0 14	2	4507	1	13526
H2V W1D	1121 1170	ANTI-ANXIETT DROGS	ANTAGONIST ANTIDET RESSANTS	0.00	0.54	00.17	0.14		4307		13320
H2V W1D		ANTI-NARCOLEPSY/ANTI-									
ANTI-NARCOLEPSY/ANTI-HYPERKINESIS, STIMULANT-TYPE QUINOLONES	H2V W1D		MACROLIDES	6.00	0.54	66 17	0 14	2	4507	1	13526
H2V W1Q	1124 4415	THE ENGINEERIC, CHIMOLINI THE	WW. CORCELEDED	0.00	0.01	00.11	0.11		1001		10020
H2V W1Q		ANTI-NARCOI EPSY/ANTI-									
ANALGESIC/ANTIPYRETICS	H2V W1Q		QUINOLONES	6.00	0.54	66.17	0.14	2	4507	1	13526
H3D M9L SALICYLATES TYPE											
HAB W3A ANTICONVULSANTS ANTIFUNGAL ANTIBIOTICS 6.00 0.54 66.17 0.14 2 4507 1 13526		ANALGESIC/ANTIPYRETICS,	ANTICOAGULANTS,COUMARIN								
ANTIEMETIC/ANTIVERTIGO ANTIPSYCHOTICS, ATYPICAL, DOP AMINE, & SEROTONIN ANTAG 6.00 0.54 66.17 0.14 2 4507 1 13526 SEROTONIN-NOREPINEPHRINE AMINE, & SEROTONIN ANTAG 6.00 0.54 66.17 0.14 2 4507 1 13526 ORAL ANTICOAGULANTS, COUMARIN ANTIGOAGULANTS, COUMARIN ANTICOAGULANTS, ANTIPSYCHOTICS, ATYPICAL, DOP AMINE, & SEROTONIN ANTAG 4.50 0.75 26.93 0.10 3 4506 2 13525 ANTIPSYCHOTICS, ATYPICAL, DOP AMINE, & SEROTONIN ANTAG 4.50 0.75 26.93 0.10 3 4506 2 13525 ANTIPSYCHOTICS, ATYPICAL, DOP AMINE, ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ANTI-PARTICOAGULANT ALLANDERS ANTI-PARTICOAGULANT ANTI-P	H3D M9L	SALICYLATES	TYPE	6.00	0.54	66.17	0.14	2	4507	1	13526
H6J H7T AGENTS	H4B W3A	ANTICONVULSANTS	ANTIFUNGAL ANTIBIOTICS	6.00	0.54	66.17	0.14	2	4507	1	13526
SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS) ANTIFUNGAL AGENTS 6.00 0.54 66.17 0.14 2 4507 1 13526		ANTIEMETIC/ANTIVERTIGO	ANTIPSYCHOTICS, ATYPICAL, DOP								
REUPTAKE-INHIB (SNRIS)	H6J H7T		AMINE,& SEROTONIN ANTAG	6.00	0.54	66.17	0.14	2	4507	1	13526
ORAL ANTICOAGULANTS,COUMARIN M9L W1K TYPE LINCOSAMIDES A1A W1D DIGITALIS GLYCOSIDES MACROLIDES ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG AMIDE,& SEROTONIN ANTAG AMIDE, SEROTONIN ANTAG ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG AMIDE AMINE,& SEROTONIN ANTAG AMINE,& SEROTONIN		SEROTONIN-NOREPINEPHRINE									
ANTICOAGULANTS,COUMARIN TYPE LINCOSAMIDES A1A W1D DIGITALIS GLYCOSIDES MACROLIDES ANTIPSYCHOTICS,ATYPICAL,DOP AND BELLADONNA ALKALOIDS ANTIPSTORINE PHRINE HZG H2S PSYCHOTICS,PHENOTHIAZINES HZG H2S SEROTONIN ANTAG ANTIPSYCHOTICS,ATYPICAL,DOP ANTIPSYCHOTICS,ATYPICAL,DOP ANTIPSYCHOTICS,NON-BETA-ADRENERGIC AGENTS ANTIPSYCHOTICS, ATYPICAL,DOP ANTIPSYCHOTICS, ATYPICAL	H7C W3B	` ,	ANTIFUNGAL AGENTS	6.00	0.54	66.17	0.14	2	4507	1	13526
M9L W1K TYPE											
ATIA W1D DIGITALIS GLYCOSIDES MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 B3J H7T EXPECTORANTS AMINE, & SEROTONIN ANTAG 4.50 0.75 26.93 0.10 3 4506 2 13525 HYPOGLYCEMICS, INSULIN-TRICYCLIC ANTIDEPRESSANTS & HYPOGLYCEMICS, INSULIN-TRICYCLIC ANTIDEPRESSANTS & HYPORLYCEMIA TX - PURINE REL. NON-SEL. RU-INHIB 4.50 0.75 26.93 0.10 3 4506 2 13525 C7A W1D INHIBITORS MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 B2DATIVE-HYPNOTICS,NON-HZE J2A BARBITURATE BELLADONNA ALKALOIDS 4.50 0.75 26.93 0.10 3 4506 2 13525 ANTI-SEROTONIN-NOREPINEPHRINE HZE J2A REL-TAIL SEROTONIN SPECIFIC REUPTAKE SEROTONIN-NOREPINEPHRINE HZE J2A REL-TAIL SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN SPECIFIC REUPTAKE SEROTONIN ANTAG ANTIHISTAMINES LOOP DIURETICS 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG ANTIHISTAMINES 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN ANTAG A		*									
ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG 4.50 0.75 26.93 0.10 3 4506 2 13525	M9L W1K										
AMINE, & SEROTONIN ANTAG A.50 0.75 26.93 0.10 3 4506 2 13525	A1A W1D	DIGITALIS GLYCOSIDES		4.50	0.75	26.93	0.10	3	4506	2	13525
HYPOGLYCEMICS, INSULIN- TRICYCLIC ANTIDEPRESSANTS & RELEASE STIMULANT TYPE REL. NON-SEL. RU-INHIB 4.50 2.02 10.02 0.00 15 4494 10 13517											
RELEASE STIMULANT TYPE REL. NON-SEL. RU-INHIB 4.50 2.02 10.02 0.00 15 4494 10 13517	B3J H7T			4.50	0.75	26.93	0.10	3	4506	2	13525
HYPERURICEMIA TX - PURINE MACROLIDES M											
C7A W1D INHIBITORS MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525	C4K H2U		REL. NON-SEL. RU-INHIB	4.50	2.02	10.02	0.00	15	4494	10	13517
SEDATIVE-HYPNOTICS,NON- BARBITURATE BELLADONNA ALKALOIDS 4.50 0.75 26.93 0.10 3 4506 2 13525 H2G H2S PSYCHOTICS,PHENOTHIAZINES INHIBITOR (SSRIS) 4.50 0.75 26.93 0.10 3 4506 2 13525 H2G H2S PSYCHOTICS,PHENOTHIAZINES INHIBITOR (SSRIS) 4.50 0.75 26.93 0.10 3 4506 2 13525 H2G H2S PSYCHOTICS,PHENOTHIAZINES INHIBITOR (SSRIS) 4.50 0.75 26.93 0.10 3 4506 2 13525 H2G H2S PSYCHOTICS,ATYPICAL,DOP ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 H2G H2S PSYCHOTICS,ATYPICAL,DOP ANTIPSYCHOTICS,ATYPICAL,DOP ANTIPSYCHOTICS,A	074 14/:-					0			4555	_	40
H2E J2A BARBITURATE BELLADONNA ALKALOIDS 4.50 0.75 26.93 0.10 3 4506 2 13525 H2G H2S PSYCHOTICS, PHENOTHIAZINES INHIBITOR (SSRIS) 4.50 0.75 26.93 0.10 3 4506 2 13525 H7C W5A REUPTAKE INHIB (SNRIS) ANTIVIRALS, GENERAL 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W1D AMINE, & SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W1D AMINE, & SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W2D BETA-ADRENERGIC AGENTS NITROFURAN DERIVATIVES 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T Z2A AMINE, & SEROTONIN ANTAG ANTIPISYCHOTICS, ATYPICAL, DOP ANTIPSYCHOTICS, ANTIPSYCHOTIC	C/A W1D		MACROLIDES	4.50	0.75	26.93	0.10	3	4506	2	13525
ANTI- H2G H2S PSYCHOTICS,PHENOTHIAZINES INHIBITOR (SSRIS) 4.50 0.75 26.93 0.10 3 4506 2 13525 SEROTONIN-NOREPINEPHRINE H7C W5A REUPTAKE-INHIB (SNRIS) ANTIVIRALS, GENERAL 4.50 0.75 26.93 0.10 3 4506 2 13525 ANTIPSYCHOTICS,ATYPICAL,DOP H7T W1D AMINE,& SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 J5D W2F BETA-ADRENERGIC AGENTS NITROFURAN DERIVATIVES 4.50 0.75 26.93 0.10 3 4506 2 13525 QGR R1M EYE ANTIHISTAMINES LOOP DIURETICS 4.50 0.75 26.93 0.10 3 4506 2 13525 ANTIPSYCHOTICS,ATYPICAL,DOP H7T Z2A AMINE,& SEROTONIN ANTAG ANTIHISTAMINES 4.20 1.33 13.23 0.01 7 4502 5 13522 ORAL ANTICOAGULANTS,COUMARIN NSAIDS, CYCLOOXYGENASE ITYPE 4.15 2.04 8.48 0.00 18 4491 13 13514 H6H W1D SKELETAL MUSCLE RELAXANTS MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513	1105 164	-	DELL'ADONNA ALICE CIDO	4 ===	0 ==	00.00		_	4500	_	40505
H2G H2S	H2E J2A			4.50	0.75	26.93	0.10	3	4506	2	13525
SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS) ANTIVIRALS, GENERAL 4.50 0.75 26.93 0.10 3 4506 2 13525	Hac Hac			4 50	0.75	00.00	0.40	_	4500	_	10505
H7C W5A REUPTAKE-INHIB (SNRIS) ANTIVIRALS, GENERAL 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W1D AMINE, SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W1D AMINE, SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W1D AMINE, SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 H7T W1D AMINE, SEROTONIN ANTAG ANTIPSYCHOTICS, ATYPICAL, DOP ANTIPSYCHOTICS, ATYPICAL, DOP H7T Z2A AMINE, SEROTONIN ANTAG ANTIHISTAMINES 4.20 1.33 13.23 0.01 7 4502 5 13522 H7T Z2A AMINE, SEROTONIN ANTAG ANTIHISTAMINES 4.20 1.33 13.23 0.01 7 4502 5 13522 H8H W1D SKELETAL MUSCLE RELAXANTS MACROLIDES 4.15 2.04 8.48 0.00 18 4491 13 13514 H6H W1D SEROTONIN SPECIFIC REUPTAKE HACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D SEROTONIN SPECIFIC REUPTAKE HACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H7T W1D ANTIPSYCHOTICS, ATYPICAL, DOP AUTOMORPHICAL SEROTONIN SPECIFIC REUPTAKE HACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D SEROTONIN SPECIFIC REUPTAKE HACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D SEROTONIN SPECIFIC REUPTAKE HACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 H8H W1D MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513	П2G H2S	,	ווסוווטוו (און (און ווסווויוו)	4.50	0.75	∠6.93	0.10	3	4506	2	13525
ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG MACROLIDES 4.50 0.75 26.93 0.10 3 4506 2 13525 15D W2F BETA-ADRENERGIC AGENTS NITROFURAN DERIVATIVES 4.50 0.75 26.93 0.10 3 4506 2 13525 0.6R1M EYE ANTIHISTAMINES LOOP DIURETICS ANTIPSYCHOTICS,ATYPICAL,DOP H7T Z2A AMINE,& SEROTONIN ANTAG ANTIHISTAMINES ANTIHINIAMINES ANTIHINIAMINIAMINIAMINIAMINIAMINIAMINIAMINI	U7C \A/E A		ANTIMBALS CENEDAL	4.50	0.75	26.00	0.40	2	4500	_	12525
H7T W1D	H/C W5A		ANTIVIRALO, GENERAL	4.50	U./5	∠0.93	0.10	3	4506	2	13525
J5D W2F BETA-ADRENERGIC AGENTS NITROFURAN DERIVATIVES 4.50 0.75 26.93 0.10 3 4506 2 13525	H7T W4D		MACPOLIDES	4 50	0 7F	26.02	0.40	2	4506	2	13525
Q6R R1M EYE ANTIHISTAMINES LOOP DIURETICS 4.50 0.75 26.93 0.10 3 4506 2 13525 ANTIPSYCHOTICS,ATYPICAL,DOP H7T Z2A AMINE,& SEROTONIN ANTAG ANTIHISTAMINES 4.20 1.33 13.23 0.01 7 4502 5 13522 ORAL ANTICOAGULANTS,COUMARIN ANTICOAGULANTS,COUMARIN INHIBITOR - TYPE NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE 4.15 2.04 8.48 0.00 18 4491 13 13514 H6H W1D SKELETAL MUSCLE RELAXANTS SEROTONIN SPECIFIC REUPTAKE MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513		,									
ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG ANTIHISTAMINES 4.20 1.33 13.23 0.01 7 4502 5 13522 ORAL ANTICOAGULANTS,COUMARIN NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE INHIBITOR - TYPE H6H W1D SKELETAL MUSCLE RELAXANTS MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513										2	
HTT Z2A	QUIX IX IIVI		LOGI DIONETIOS	7.50	0.73	20.53	0.10	J	7300		10020
ORAL ANTICOAGULANTS,COUMARIN NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE H6H W1D SKELETAL MUSCLE RELAXANTS SEROTONIN SPECIFIC REUPTAKE NSAIDS, CYCLOOXYGENASE INHIBITOR - TYPE 4.15 4.15 2.04 8.48 0.00 18 4491 13 13514 13513	H7T 724		ANTIHISTAMINES	4 20	1 33	13 23	0.01	7	4502	5	13522
ANTICOAGULANTS,COUMARIN NSAIDS, CYCLOOXYGENASE	1111224		ANTI IIO I AWIINEO	7.20	1.00	13.23	0.01	1	7302	Ü	10022
M9L S2B TYPE INHIBITOR - TYPE 4.15 2.04 8.48 0.00 18 4491 13 13514 H6H W1D SKELETAL MUSCLE RELAXANTS MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 SEROTONIN SPECIFIC REUPTAKE			NSAIDS CYCLOOXYGENASE								
H6H W1D SKELETAL MUSCLE RELAXANTS MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513 SEROTONIN SPECIFIC REUPTAKE	M9L S2R		The state of the s	4 15	2 ∩⊿	8 49	0.00	12	4491	13	13514
SEROTONIN SPECIFIC REUPTAKE											
	. 10.1. ** 10		OROLIDEO	7.01	2.04	0.12	0.00	13	7730		10010
Tool 2.11 Tool 2.4 Tool 10 1000	H2S W10		QUINOLONES	4 00	2 17	7 37	0.00	24	4485	18	13509
	11.10(1.00	17	1.01	3.00		1 100	.0	.0000

DRUG_DRUG	DRUG 1	DRUG 2	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
_	TRICYCLIC ANTIDEPRESSANTS &		ı	i	_					
H2U W3B	REL. NON-SEL. RU-INHIB	ANTIFUNGAL AGENTS	4.00	0.90	17.87	0.07	4	4505	3	13524
	THIAZIDE AND RELATED	LEUKOTRIENE RECEPTOR								
R1F Z4B	DIURETICS	ANTAGONISTS	4.00	0.90	17.87	0.07	4	4505	3	13524
[<u> </u>	SEDATIVE-HYPNOTICS,NON-		ı T	ı 1]		Ī	
H2E H4B	BARBITURATE	ANTICONVULSANTS	3.92	1.91	8.08	0.00	17	4492	13	13514
B3J W5A	EXPECTORANTS	ANTIVIRALS, GENERAL	3.75	1.01	13.97	0.05	5	4504	4	13523
		ANTIPSYCHOTICS,ATYPICAL,DOP	ا ـ ـ ـ ا	ا ـ ا					_	
H3A H7T	ANALGESICS,NARCOTICS	AMINE,& SEROTONIN ANTAG	3.75	1.48	9.50	0.01	10	4499	8	13519
		BETA-ADRENERGIC BLOCKING			40.07		_	4504		40500
H7T J7C	AMINE,& SEROTONIN ANTAG	AGENTS	3.75	1.01	13.97	0.05	5	4504	4	13523
H4B H7C	ANTICONVIU CANTO	SEROTONIN-NOREPINEPHRINE	2.67	1 50	0.05	0.00	11	4400	0	12510
H4B H/C	ANTICONVULSANTS SEROTONIN SPECIFIC REUPTAKE	REUPTAKE-INHIB (SNRIS)	3.67	1.52	8.85	0.00	11	4498	9	13518
H2S H3A		ANALGESICS,NARCOTICS	3.64	2.72	4.85	0.00	104	4405	88	13439
J5D Z2F	INHIBITOR (SSRIS) BETA-ADRENERGIC AGENTS	MAST CELL STABILIZERS	3.60	1.10	11.80	0.00	6	4503	5	13522
M4E W1K	LIPOTROPICS	LINCOSAMIDES	3.60	1.10	11.80	0.03	6	4503	5	13522
WITE WITE	ORAL	ENVOGENINDEG	0.00	1.10	11.00	0.00	0	4505	- 3	10022
	ANTICOAGULANTS,COUMARIN	CEPHALOSPORINS - 1ST	ı							
M9L W1W	TYPE	GENERATION	3.60	1.10	11.80	0.03	6	4503	5	13522
MOL WIW		SEROTONIN-NOREPINEPHRINE	0.00	1.10	11.00	0.00	Ū	1000		TOOLL
H2F H7C	ANTI-ANXIETY DRUGS	REUPTAKE-INHIB (SNRIS)	3.55	1.59	7.91	0.00	13	4496	11	13516
H2F W3B	ANTI-ANXIETY DRUGS	ANTIFUNGAL AGENTS	3.43		9.45	0.02	8	4501	7	13520
		TRICYCLIC ANTIDEPRESSANTS &	5.10		5.10	5.02	Ŭ	.501	- 1	.5525
H2F H2U	ANTI-ANXIETY DRUGS	REL. NON-SEL. RU-INHIB	3.40	2.08	5.56	0.00	34	4475	30	13497
			5.40	2.55	5.50	5.00				.0 707
H2S H7T	INHIBITOR (SSRIS)	AMINE,& SEROTONIN ANTAG	3.40	1.70	6.81	0.00	17	4492	15	13512
A1A A2A	DIGITALIS GLYCOSIDES	ANTIARRHYTHMICS	3.38	1.30	8.75	0.00	9	4500	8	13512
	HYPOGLYCEMICS, INSULIN-	SEROTONIN SPECIFIC REUPTAKE	5.55	1.55	5.75	5.01		.500	J	.0010
C4N H2S	RESPONSE ENHANCER (N-S)	INHIBITOR (SSRIS)	3.30	1.40	7.77	0.01	11	4498	10	13517
H6H W1Q	SKELETAL MUSCLE RELAXANTS	QUINOLONES	3.27	1.44	7.42	0.00	12	4497	11	13516
A1A W1C	DIGITALIS GLYCOSIDES	TETRACYCLINES	3.00	0.19	47.96	0.44	1	4508	1	13526
A1A W3B	DIGITALIS GLYCOSIDES	ANTIFUNGAL AGENTS	3.00	0.19	47.96	0.44	1	4508	1	13526
/ LINE WOD	ACE INHIBITOR/CALCIUM	7.11.11.11.01.10.71.27.10.21.11.0	0.00	0.10	17.00	0.11		1000		10020
	CHANNEL BLOCKER	CALCIUM CHANNEL BLOCKING	ı							
A4K A9A	COMBINATION	AGENTS	3.00	0.19	47.96	0.44	1	4508	1	13526
7111171071	ACE INHIBITOR/CALCIUM	NOENTO	0.00	0.10	17.00	0.11		1000		10020
	CHANNEL BLOCKER	ALPHA/BETA-ADRENERGIC	ı							
A4K J7A	COMBINATION	BLOCKING AGENTS	3.00	0.19	47.96	0.44	1	4508	1	13526
A-107A	CALCIUM CHANNEL BLOCKING	BECOKING ACEIVIC	0.00	0.13	47.50	0.11		7000	- 1	10020
A9A W3A	AGENTS	ANTIFUNGAL ANTIBIOTICS	3.00	0.19	47.96	0.44	1	4508	1	13526
C4G W2F	INSULINS	NITROFURAN DERIVATIVES	3.00	0.42	21.30	0.27	2	4507	2	13525
C4G W5A	INSULINS	ANTIVIRALS, GENERAL	3.00	0.19	47.96	0.44	1	4508	1	13526
0.0.00		TRICYCLIC	0.00	0.10		0		.000		.0020
	HYPOGLYCEMICS, INSULIN-	ANTIDEPRESSANT/PHENOTHIAZI	ı							
C4K H2W	RELEASE STIMULANT TYPE	NE COMBINATNS	3.00	0.19	47.96	0.44	1	4508	1	13526
0	HYPOGLYCEMICS, INSULIN-	ANALGESIC/ANTIPYRETICS.	0.00	0.10		0		.000		.0020
C4K H3D	RELEASE STIMULANT TYPE	SALICYLATES	3.00	0.42	21.30	0.27	2	4507	2	13525
	HYPOGLYCEMICS, INSULIN-	ANALGESIC/ANTIPYRETICS,NON-								
C4K H3E	RELEASE STIMULANT TYPE	SALICYLATE	3.00	0.42	21.30	0.27	2	4507	2	13525
	HYPOGLYCEMICS, INSULIN-									
C4K W3B	RELEASE STIMULANT TYPE	ANTIFUNGAL AGENTS	3.00	0.97	9.30	0.06	6	4503	6	13521
-	HYPOGLYCEMICS, BIGUANIDE	ANALGESIC/ANTIPYRETICS,							-	
C4L H3D	TYPE (NON-SULFONYLUREAS)	SALICYLATES	3.00	0.19	47.96	0.44	1	4508	1	13526
	HYPOGLYCEMICS, INSULIN-	ALPHA/BETA-ADRENERGIC								
C4N J7A	RESPONSE ENHANCER (N-S)	BLOCKING AGENTS	3.00	0.61	14.86	0.18	3	4506	3	13524
	,	ORAL								
	HYPOGLYCEMICS, INSULIN-	ANTICOAGULANTS,COUMARIN								
C4N M9L	RESPONSE ENHANCER (N-S)	TYPE	3.00	0.61	14.86	0.18	3	4506	3	13524
	HYPERURICEMIA TX - PURINE								-	
C7A W5A	INHIBITORS	ANTIVIRALS, GENERAL	3.00	0.19	47.96	0.44	1	4508	1	13526
H2F W3A	ANTI-ANXIETY DRUGS	ANTIFUNGAL ANTIBIOTICS	3.00	0.19	47.96	0.44	1	4508	1	13526
H2F Z2E	ANTI-ANXIETY DRUGS	IMMUNOSUPPRESSIVES	3.00	0.19	47.96	0.44	1	4508	1	13526
	ANTI-	TRICYCLIC ANTIDEPRESSANTS &								
H2G H2U	PSYCHOTICS, PHENOTHIAZINES	REL. NON-SEL. RU-INHIB	3.00	0.42	21.30	0.27	2	4507	2	13525
	ANTI-									
H2G W1D	PSYCHOTICS, PHENOTHIAZINES	MACROLIDES	3.00	0.42	21.30	0.27	2	4507	2	13525
		TRICYCLIC								
	SEROTONIN SPECIFIC REUPTAKE	ANTIDEPRESSANT/BENZODIAZEPI								
H2S H2X	INHIBITOR (SSRIS)	NE COMBINATNS	3.00	0.19	47.96	0.44	1	4508	1	13526
	SEROTONIN SPECIFIC REUPTAKE									
H2S W1K	INHIBITOR (SSRIS)	LINCOSAMIDES	3.00	0.61	14.86	0.18	3	4506	3	13524
	,									
	TRICYCLIC ANTIDEPRESSANTS &	ANTI-NARCOLEPSY/ANTI-								
	REL. NON-SEL. RU-INHIB	HYPERKINESIS, STIMULANT-TYPE	3.00	0.42	21.30	0.27	2	4507	2	13525
H2U H2V		,								
H2U H2V										
H2U H2V	TRICYCLIC ANTIDEPRESSANTS &	ANTIPSYCHOTICS,DOPAMINE								
H2U H2V H2U H7P	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	ANTIPSYCHOTICS, DOPAMINE ANTAGONISTS, THIOXANTHENES	3.00	0.19	47.96	0.44	1	4508	1	13526

DRUG DRUG	DRUG 1	DRUG 2	OR	L OR	U OR	P-VALUE	Α	В	С	D
	TRICYCLIC ANTIDEPRESSANTS &									_
H2U W1D	REL. NON-SEL. RU-INHIB TRICYCLIC ANTIDEPRESSANTS &	MACROLIDES	3.00	1.39	6.47	0.01	13	4496	13	13514
H2U W3A	REL. NON-SEL. RU-INHIB TRICYCLIC ANTIDEPRESSANTS &	ANTIFUNGAL ANTIBIOTICS	3.00	0.19	47.96	0.44	1	4508	1	13526
H2U W5A	REL. NON-SEL. RU-INHIB	ANTIVIRALS, GENERAL	3.00	0.42	21.30	0.27	2	4507	2	13525
1120 WSA	INCL. NON-OLL. NO-INTIB	ANTIPSYCHOTICS, DOPAMINE ANTAGONISTS, BUTYROPHENONE	5.00	0.42	21.00	0.21		4501		10020
H3A H7O	ANALGESICS,NARCOTICS	S	3.00	0.19	47.96	0.44	1	4508	1	13526
H3D M9P	ANALGESIC/ANTIPYRETICS, SALICYLATES	PLATELET AGGREGATION INHIBITORS	3.00	0.19	47.96	0.44	1	4508	1	13526
H3F H7C	ANTIMIGRAINE PREPARATIONS	SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS)	3.00	0.42	21.30	0.27	2	4507	2	13525
		ALPHA-2 RECEPTOR								
Н6Н Н7В	SKELETAL MUSCLE RELAXANTS	ANTAGONIST ANTIDEPRESSANTS SEROTONIN-NOREPINEPHRINE	3.00	0.19	47.96	0.44	1	4508	1	13526
H6H H7C	SKELETAL MUSCLE RELAXANTS	REUPTAKE-INHIB (SNRIS)	3.00	0.75	12.00	0.12	4	4505	4	13523
H6H W2F	SKELETAL MUSCLE RELAXANTS	NITROFURAN DERIVATIVES	3.00	0.61	14.86	0.18	3	4506	3	13524
	ANTIEMETIC/ANTIVERTIGO	SEROTONIN-NOREPINEPHRINE								
H6J H7C	AGENTS	REUPTAKE-INHIB (SNRIS)	3.00	0.42	21.30	0.27	2	4507	2	13525
Н7В Н7Т	ALPHA-2 RECEPTOR ANTAGONIST ANTIDEPRESSANTS SEROTONIN-NOREPINEPHRINE	ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG	3.00	0.42	21.30	0.27	2	4507	2	13525
H7C W1D	REUPTAKE-INHIB (SNRIS)	MACROLIDES	3.00	0.75	12.00	0.12	4	4505	4	13523
	NOREPINEPHRINE AND DOPAMINE REUPTAKE INHIB	ALPHA/BETA-ADRENERGIC								
H7D J7A	(NDRIS)	BLOCKING AGENTS	3.00	0.19	47.96	0.44	1	4508	1	13526
H7T W1Q	ANTIPSYCHOTICS,ATYPICAL,DOP AMINE,& SEROTONIN ANTAG	QUINOLONES	3.00	0.19	47.96	0.44	1	4508	1	13526
H7T W4A	ANTIPSYCHOTICS, ATYPICAL, DOP AMINE, & SEROTONIN ANTAG	ANTIMALARIAL DRUGS	3.00	0.19	47.96	0.44	1	4508	1	13526
H7T W5A	ANTIPSYCHOTICS, ATYPICAL, DOP AMINE, & SEROTONIN ANTAG	ANTIVIRALS, GENERAL	3.00	0.19	47.96	0.44	1	4508	1	13526
		ORAL ANTICOAGULANTS,COUMARIN				2111				
J2A M9L	BELLADONNA ALKALOIDS	TYPE	3.00	0.19	47.96	0.44	1	4508	1	13526
J2A W2F	BELLADONNA ALKALOIDS	NITROFURAN DERIVATIVES	3.00	0.19	47.96	0.44	1	4508	1	13526
J5G J7C	BETA-ADRENERGICS AND GLUCOCORTICOIDS COMBINATION	BETA-ADRENERGIC BLOCKING AGENTS	3.00	0.19	47.96	0.44	1	4508	1	13526
M9K W1W	HEPARIN AND RELATED PREPARATIONS	CEPHALOSPORINS - 1ST GENERATION	3.00	0.19	47.96	0.44	1	4508	1	13526
MOR WIW	ORAL		0.00	0.10	17.00	0.11		1000	•	10020
M9L M9P	ANTICOAGULANTS,COUMARIN TYPE ORAL	PLATELET AGGREGATION INHIBITORS	3.00	1.05	8.55	0.04	7	4502	7	13520
M9L Z2E	ANTICOAGULANTS,COUMARIN TYPE	IMMUNOSUPPRESSIVES	3.00	0.19	47.96	0.44	1	4508	1	13526
Q6R W1Q	EYE ANTIHISTAMINES	QUINOLONES	3.00	0.19	47.96	0.44	1	4508	1	13526
R1M Z2F	LOOP DIURETICS	MAST CELL STABILIZERS	3.00	0.19	47.96	0.44	1	4508	1	13526
S2A W1Q	COLCHICINE	QUINOLONES ANTIVIRALS, HIV-SPECIFIC,	3.00	0.19	47.96	0.44	1	4508	1	13526
W5A W5J	ANTIVIRALS, GENERAL	NUCLEOSIDE ANALOG, RTI	3.00	0.19	47.96	0.44	1	4508	1	13526
W5A W5K	ANTIVIRALS, GENERAL	ANTIVIRALS, HIV-SPECIFIC, NON- NUCLEOSIDE, RTI	3.00	0.19	47.96	0.44	1	4508	1	13526
W5J W5K	ANTIVIRALS, HIV-SPECIFIC, NUCLEOSIDE ANALOG, RTI	ANTIVIRALS, HIV-SPECIFIC, NON- NUCLEOSIDE, RTI	3.00	0.19	47.96	0.44	1	4508	1	13526
Z2F Z4B	MAST CELL STABILIZERS	LEUKOTRIENE RECEPTOR ANTAGONISTS	3.00	0.61	14.86	0.18	3	4506	3	13524
B3J H2S	EXPECTORANTS	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) ORAL	2.96	1.70	5.17	0.00	25	4484	26	13501
LIAD MAOI	ANTICONVULSANTS	ANTICOAGULANTS,COUMARIN TYPE	2.00	1 20	6 40	0.00	4.4	4405	45	12540
H4B M9L H4B W1D	ANTICONVULSANTS	MACROLIDES	2.93	1.39	6.19 5.80	0.00 0.01	14 14	4495 4495	15 15	13512 13512
H2E H3A	SEDATIVE-HYPNOTICS,NON- BARBITURATE	ANALGESICS,NARCOTICS	2.79	1.85	4.20	0.00	45	4464	49	13478
H2F H2S	ANTI-ANXIETY DRUGS	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	2.71	2.02	3.64	0.00	85	4424	94	13433
	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	SEROTONIN SPECIFIC REUPTAKE					17			
C4L H2S	,	INHIBITOR (SSRIS) THIAZIDE AND RELATED	2.68	1.40	5.16	0.00		4492	19	13508
A1A R1F	DIGITALIS GLYCOSIDES	DIURETICS SEROTONIN-2	2.67	1.03	6.91	0.04	8	4501	9	13518
A9A H7E	CALCIUM CHANNEL BLOCKING AGENTS	ANTAGONIST/REUPTAKE INHIBITORS (SARIS)	2.63	1.28	5.38	0.01	14	4495	16	13511

DRUC DRUC	DRUG 1	DRUG 2	OB	I OD	II OB	D VALUE	٨	В	С	Ь
DRUG_DRUG	DRUG I	CALCIUM CHANNEL BLOCKING	OR	L_OR	U_OR	P-VALUE	А	В	C	D
A2A A9A	ANTIARRHYTHMICS	AGENTS	2.57	0.86	7.65	0.09	6	4503	7	13520
C4G W1D	INSULINS	MACROLIDES	2.57	0.86	7.65	0.09	6	4503	7	13520
010 1110	INCOEINO	ORAL	2.07	0.00	7.00	0.00	•	1000		10020
	SEROTONIN SPECIFIC REUPTAKE	ANTICOAGULANTS.COUMARIN								
H2S M9L	INHIBITOR (SSRIS)	TYPE	2.57	1.19	5.56	0.02	12	4497	14	13513
	CALCIUM CHANNEL BLOCKING	SEROTONIN-NOREPINEPHRINE								
A9A H7C	AGENTS	REUPTAKE-INHIB (SNRIS)	2.50	0.76	8.19	0.13	5	4504	6	13521
	SEROTONIN SPECIFIC REUPTAKE	(_	
H2S W2F	INHIBITOR (SSRIS)	NITROFURAN DERIVATIVES	2.50	0.76	8.19	0.13	5	4504	6	13521
	SEROTONIN SPECIFIC REUPTAKE									
H2S W5A	INHIBITOR (SSRIS)	ANTIVIRALS, GENERAL	2.50	0.76	8.19	0.13	5	4504	6	13521
	TRICYCLIC ANTIDEPRESSANTS &	,								
H2U W1Q	REL. NON-SEL. RU-INHIB	QUINOLONES	2.45	1.02	5.92	0.05	9	4500	11	13516
	HYPOGLYCEMICS, INSULIN-	SEROTONIN SPECIFIC REUPTAKE								
C4K H2S	RELEASE STIMULANT TYPE	INHIBITOR (SSRIS)	2.44	1.39	4.29	0.00	22	4487	27	13500
H2F W1D	ANTI-ANXIETY DRUGS	MACROLIDES	2.42	1.36	4.31	0.00	21	4488	26	13501
H2F J5D	ANTI-ANXIETY DRUGS	BETA-ADRENERGIC AGENTS	2.36	1.41	3.95	0.00	26	4483	33	13494
	SEROTONIN SPECIFIC REUPTAKE									
H2S H3F	INHIBITOR (SSRIS)	ANTIMIGRAINE PREPARATIONS	2.35	1.27	4.35	0.01	18	4491	23	13504
	TRICYCLIC ANTIDEPRESSANTS &									
H2U H3A	REL. NON-SEL. RU-INHIB	ANALGESICS,NARCOTICS	2.34	1.62	3.39	0.00	50	4459	64	13463
A1A H2F	DIGITALIS GLYCOSIDES	ANTI-ANXIETY DRUGS	2.33	0.87	6.27	0.09	7	4502	9	13518
	ACE INHIBITOR/CALCIUM		55	3.31	J/	3.00	•		J	. 55 15
	CHANNEL BLOCKER	BETA-ADRENERGIC BLOCKING								
A4K J7C	COMBINATION	AGENTS	2.33	0.87	6.27	0.09	7	4502	9	13518
H6C Z2A	ANTITUSSIVES.NON-NARCOTIC	ANTIHISTAMINES	2.33	0.87	6.27	0.09	7	4502	9	13518
P5A W1D	GLUCOCORTICOIDS	MACROLIDES	2.31	1.51	3.55	0.00	37	4472	48	13479
I JA WID	HYPOGLYCEMICS. BIGUANIDE	TRICYCLIC ANTIDEPRESSANTS &	2.01	1.01	3.33	0.00	31	4412	70	10413
C4L H2U	TYPE (NON-SULFONYLUREAS)	REL. NON-SEL. RU-INHIB	2.29	1.11	4.72	0.02	13	4496	17	13510
C4L 1120	THE (NON-SOLI ON LONLAS)	GASTRIC ACID SECRETION	2.23	1.11	7.12	0.02	13	4430	17	13310
A2A D4K	ANTIARRHYTHMICS	REDUCERS	2.25	0.50	10.05	0.29	3	4506	4	13523
AZA D4N	ANTIARRITI ITIVIICS	PLATELET AGGREGATION	2.25	0.50	10.05	0.29	3	4506	4	13323
C4C MOD	INICHILINIC		2.25	0.78	6.48	0.12	6	4502	0	12510
C4G M9P	INSULINS SEROTONIN-NOREPINEPHRINE	INHIBITORS ANTIPSYCHOTICS,ATYPICAL,DOP	2.25	0.76	0.40	0.13	6	4503	8	13519
UZO UZT			2.25	0.50	40.05	0.00	2	4500	4	40500
H7C H7T	REUPTAKE-INHIB (SNRIS)	AMINE,& SEROTONIN ANTAG	2.25	0.50	10.05	0.29	3	4506	4	13523
LIZO MAE	SEROTONIN-NOREPINEPHRINE	LIDOTRODICC	2.25	0.70	C 40	0.40	_	4500	0	10510
H7C M4E	REUPTAKE-INHIB (SNRIS)	LIPOTROPICS	2.25	0.78	6.48	0.13	6	4503	8	13519
	ORAL									
	ANTICOAGULANTS,COUMARIN	MAAODOLIDEO		0.50	40.05	0.00	•	4500		40500
M9L W1D	TYPE	MACROLIDES	2.25	0.50	10.05	0.29	3	4506	4	13523
040 0414	INIQUII INIQ	GASTRIC ACID SECRETION	0.04	4.00	0.70	0.00	0.5	4404	0.4	40400
C4G D4K	INSULINS	REDUCERS	2.21	1.32	3.70	0.00	25	4484	34	13493
H2F W1Q	ANTI-ANXIETY DRUGS	QUINOLONES	2.20	1.27	3.81	0.00	22	4487	30	13497
	SEROTONIN-NOREPINEPHRINE	BETA-ADRENERGIC BLOCKING								
H7C J7C	REUPTAKE-INHIB (SNRIS)	AGENTS	2.14	0.68	6.75	0.19	5	4504	7	13520
	HYPERURICEMIA TX - PURINE	GASTRIC ACID SECRETION								
C7A D4K	INHIBITORS	REDUCERS	2.12	1.01	4.46	0.05	12	4497	17	13510
	HYPOGLYCEMICS, INSULIN-									
C4K W1D	RELEASE STIMULANT TYPE	MACROLIDES	2.05	1.06	3.94	0.03	15	4494	22	13505
		SEROTONIN-NOREPINEPHRINE								
B3J H7C	EXPECTORANTS	REUPTAKE-INHIB (SNRIS)	2.00	0.33	11.97	0.45	2	4507	3	13524
	HYPOGLYCEMICS, BIGUANIDE									
C4L W2A	TYPE (NON-SULFONYLUREAS)	ABSORBABLE SULFONAMIDES	2.00	0.33	11.97	0.45	2	4507	3	13524
	HYPOGLYCEMICS, BIGUANIDE									
C4L W2F	TYPE (NON-SULFONYLUREAS)	NITROFURAN DERIVATIVES	2.00	0.33	11.97	0.45	2	4507	3	13524
	HYPERURICEMIA TX - PURINE									
C7A W1Q	INHIBITORS	QUINOLONES	2.00	0.33	11.97	0.45	2	4507	3	13524
	SEDATIVE-HYPNOTICS,NON-									
H2E W3B	BARBITURATE	ANTIFUNGAL AGENTS	2.00	0.56	7.09	0.28	4	4505	6	13521
H2F W2F	ANTI-ANXIETY DRUGS	NITROFURAN DERIVATIVES	2.00	0.33	11.97	0.45	2	4507	3	13524
	SEROTONIN SPECIFIC REUPTAKE									
H2S W3B	INHIBITOR (SSRIS)	ANTIFUNGAL AGENTS	2.00	0.71	5.62	0.19	6	4503	9	13518
					-					
		ALPHA-2 RECEPTOR								
H4B H7B	ANTICONVULSANTS	ANTAGONIST ANTIDEPRESSANTS	2.00	0.33	11.97	0.45	2	4507	3	13524
P5A W1K	GLUCOCORTICOIDS	LINCOSAMIDES	2.00	0.33	11.97	0.45	2	4507	3	13524
		ORAL								
	TRICYCLIC ANTIDEPRESSANTS &	ANTICOAGULANTS,COUMARIN								
H2U M9L	REL. NON-SEL. RU-INHIB	TYPE	1.88	0.61	5.73	0.27	5	4504	8	13519
	ORAL			-						
	ANTICOAGULANTS,COUMARIN									
M9L W1Q	TYPE	QUINOLONES	1.88	0.61	5.73	0.27	5	4504	8	13519
	HYPOGLYCEMICS, INSULIN-	HYPOGLYCEMICS, ALPHA-				J.=1	Ŭ		J	
C4K C4M	RELEASE STIMULANT TYPE	GLUCOSIDASE INHIB TYPE (N-S)	1.80	0.43	7.53	0.42	3	4506	5	13522
	HYPOGLYCEMICS, ALPHA-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				3	Ŭ		J	
C4M M4E	GLUCOSIDASE INHIB TYPE (N-S)	LIPOTROPICS	1.80	0.43	7.53	0.42	3	4506	5	13522
	300.D. (OL (IIID 111 L (IV-0)			J. 10	7.00	U. 1/2	J	.500	v	.0022

DDIIO DDIIO	DDIIC 4	DDI IO 2	00	1 OD	11.00	D.VALUE	^	_	0	D
DRUG_DRUG	DRUG 1 SEROTONIN SPECIFIC REUPTAKE	DRUG 2	OR	L_OR	U_OR	P-VALUE	А	В	С	D
H2S H6B	INHIBITOR (SSRIS)	DRUGS,ANTICHOLINERGIC	1.80	0.43	7.53	0.42	3	4506	5	13522
	TRICYCLIC ANTIDEPRESSANTS &	SEROTONIN-NOREPINEPHRINE								
H2U H7C	REL. NON-SEL. RU-INHIB	REUPTAKE-INHIB (SNRIS)	1.80	0.43	7.53	0.42	3	4506	5	13522
	PLATELET AGGREGATION	NSAIDS, CYCLOOXYGENASE								
M9P S2B	INHIBITORS	INHIBITOR - TYPE	1.80	0.65	4.95	0.26	6	4503	10	13517
404 D4K	CALCIUM CHANNEL BLOCKING	GASTRIC ACID SECRETION	4 77	4.05	0.00	0.00	0.5	4404	4.45	40000
A9A D4K	AGENTS HYPOGLYCEMICS, INSULIN-	REDUCERS GASTRIC ACID SECRETION	1.77	1.35	2.33	0.00	85	4424	145	13382
C4K D4K	RELEASE STIMULANT TYPE	REDUCERS	1.75	1.13	2.73	0.01	31	4478	53	13474
OIICDIIC	SEROTONIN SPECIFIC REUPTAKE	REBUCERO	1.70	1.10	2.70	0.01	01	1110	- 00	10171
H2S M4E	INHIBITOR (SSRIS)	LIPOTROPICS	1.75	1.33	2.32	0.00	79	4430	136	13391
	PLATELET AGGREGATION									
M9P P3A	INHIBITORS	THYROID HORMONES	1.75	0.69	4.45	0.24	7	4502	12	13515
B3J Z2A	EXPECTORANTS	ANTIHISTAMINES	1.74	1.06	2.86	0.03	25	4484	43	13484
LIAD MOD	ANITICONIVI II CANITO	PLATELET AGGREGATION INHIBITORS	1.71	0.50	E 06	0.20	4	4505	7	12520
H4B M9P	ANTICONVULSANTS	SEROTONIN SPECIFIC REUPTAKE	1.71	0.50	5.86	0.39	4	4505	- 1	13520
C4G H2S	INSULINS	INHIBITOR (SSRIS)	1.69	0.75	3.82	0.21	9	4500	16	13511
0101120	HYPOGLYCEMICS, BIGUANIDE	IN IIBITOR (COINC)	1.00	0.70	0.02	0.21	Ŭ	1000	.0	10011
C4L W1D	TYPE (NON-SULFONYLUREAS)	MACROLIDES	1.69	0.75	3.82	0.21	9	4500	16	13511
		ALPHA/BETA-ADRENERGIC								
A1A J7A	DIGITALIS GLYCOSIDES	BLOCKING AGENTS	1.67	0.56	4.97	0.36	5	4504	9	13518
	CALCIUM CHANNEL BLOCKING	****	4.0=		0.00			4400		40404
A9A W1D C4G W1Q	AGENTS INSULINS	MACROLIDES QUINOLONES	1.67 1.67	0.96	2.88 3.61	0.07 0.20	20 10	4489 4499	36 18	13491 13509
C4G WIQ	HYPOGLYCEMICS. BIGUANIDE	PLATELET AGGREGATION	1.07	0.77	3.01	0.20	10	4499	10	13309
C4L M9P	TYPE (NON-SULFONYLUREAS)	INHIBITORS	1.67	0.56	4.97	0.36	5	4504	9	13518
	, , , , , , , , , , , , , , , , , , , ,	BETA-ADRENERGIC BLOCKING	7.07	2.00		5.50	J	.001	ŭ	
C4G J7C	INSULINS	AGENTS	1.62	0.95	2.75	0.08	21	4488	39	13488
	SEROTONIN-2									
	ANTAGONIST/REUPTAKE	BETA-ADRENERGIC BLOCKING								
H7E J7C	INHIBITORS (SARIS)	AGENTS	1.62	0.64	4.05	0.31	7	4502	13	13514
H2S W1D	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	MACROLIDES	1.61	0.96	2.70	0.07	22	4487	41	13486
M4E W3B	LIPOTROPICS	ANTIFUNGAL AGENTS	1.59	0.90	3.56	0.07	9	4500	17	13510
M4E W1Q	LIPOTROPICS	QUINOLONES	1.55	1.02	2.34	0.04	34	4475	66	13461
	CALCIUM CHANNEL BLOCKING	ALPHA-ADRENERGIC BLOCKING								
A9A J7B	AGENTS	AGENTS	1.53	0.96	2.43	0.07	27	4482	53	13474
J5D W1D	BETA-ADRENERGIC AGENTS	MACROLIDES	1.53	0.98	2.37	0.06	30	4479	59	13468
	SEROTONIN SPECIFIC REUPTAKE			0.04	0.50	0.44		4400		40404
H2S H2U	INHIBITOR (SSRIS)	REL. NON-SEL. RU-INHIB POTASSIUM SPARING DIURETICS	1.51	0.91	2.50	0.11	23	4486	46	13481
A1A R1L	DIGITALIS GLYCOSIDES	IN COMBINATION	1.50	0.38	6.00	0.57	3	4506	6	13521
/ (CALCIUM CHANNEL BLOCKING	III GOMBII VIII GIV	1.00	0.00	0.00	0.01	Ŭ	1000	Ŭ	10021
A9A J1B	AGENTS	CHOLINESTERASE INHIBITORS	1.50	0.14	16.54	0.74	1	4508	2	13525
		TRICYCLIC ANTIDEPRESSANTS &								
B3J H2U	EXPECTORANTS	REL. NON-SEL. RU-INHIB	1.50	0.51	4.39	0.46	5	4504	10	13517
0.40 1.101.1	NOUN INCOME.	TRICYCLIC ANTIDEPRESSANTS &	4 =0					4500	40	40500
C4G H2U C4G W2A	INSULINS INSULINS	REL. NON-SEL. RU-INHIB ABSORBABLE SULFONAMIDES	1.50 1.50	0.67	3.34 4.39	0.32 0.46	9 5		18 10	13509 13517
C4G WZA	HYPOGLYCEMICS, INSULIN-	ABSORBABLE SULFONAIVIIDES	1.50	0.51	4.39	0.46	5	4304	10	13317
C4K W1K	RELEASE STIMULANT TYPE	LINCOSAMIDES	1.50	0.14	16.54	0.74	1	4508	2	13525
	HYPOGLYCEMICS, INSULIN-					4				
C4K W2F	RELEASE STIMULANT TYPE	NITROFURAN DERIVATIVES	1.50	0.14	16.54	0.74	1	4508	2	13525
	HYPOGLYCEMICS, BIGUANIDE	SEROTONIN-NOREPINEPHRINE								
C4L H7C	TYPE (NON-SULFONYLUREAS)	REUPTAKE-INHIB (SNRIS)	1.50	0.27	8.19	0.64	2	4507	4	13523
	HVBOGI VCEMICS DICHANIDE	ORAL								
C4L M9L	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	ANTICOAGULANTS,COUMARIN TYPE	1.50	0.56	4.00	0.42	6	4503	12	13515
OTL IVISE	HYPOGLYCEMICS, INSULIN-	PLATELET AGGREGATION	1.50	0.50	4.00	0.42	0	+503	12	10010
CAN MOD	5 52 . 5250, 111002111		I		0.00		3	4506	6	13521
C4N M9P	RESPONSE ENHANCER (N-S)	INHIBITORS	1.50	0.38	0.00	0.57	3	4000	-	
C4N M9P	RESPONSE ENHANCER (N-S) HYPOGLYCEMICS, INSULIN-	INHIBITORS	1.50	0.38	6.00	0.57	3	4300		
C4N W2F	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	NITROFURAN DERIVATIVES	1.50	0.38	16.54	0.57	1	4508	2	13525
C4N W2F	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS,NON-	NITROFURAN DERIVATIVES	1.50	0.14	16.54	0.74	1	4508		
	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS							2	13525 13525
C4N W2F H2E W3A	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS,NON- BARBITURATE	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR	1.50	0.14	16.54 16.54	0.74	1	4508 4508	2	13525
C4N W2F	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS,NON- BARBITURATE ANTI-ANXIETY DRUGS	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS	1.50	0.14	16.54	0.74	1	4508 4508		
C4N W2F H2E W3A H2F Z4B	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS, NON- BARBITURATE ANTI-ANXIETY DRUGS SEROTONIN SPECIFIC REUPTAKE	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS ANTIPARKINSONISM	1.50 1.50	0.14 0.14 0.51	16.54 16.54 4.39	0.74 0.74 0.46	1 1 5	4508 4508 4504	10	13525 13517
C4N W2F H2E W3A	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS,NON- BARBITURATE ANTI-ANXIETY DRUGS	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS	1.50	0.14	16.54 16.54	0.74 0.74 0.46	1	4508 4508 4504 4507	2	13525
C4N W2F H2E W3A H2F Z4B H2S H6A	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS, NON- BARBITURATE ANTI-ANXIETY DRUGS SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS ANTIPARKINSONISM DRUGS,OTHER	1.50 1.50 1.50	0.14 0.14 0.51 0.27	16.54 16.54 4.39 8.19	0.74 0.74 0.46	1 5 2	4508 4508 4504 4507 4508	10	13525 13517 13523
C4N W2F H2E W3A H2F Z4B H2S H6A H4B W1K	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS, NON- BARBITURATE ANTI-ANXIETY DRUGS SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) ANTICONVULSANTS	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS ANTIPARKINSONISM DRUGS,OTHER LINCOSAMIDES NITROFURAN DERIVATIVES IMMUNOSUPPRESSIVES	1.50 1.50 1.50 1.50 1.50	0.14 0.14 0.51 0.27 0.14	16.54 16.54 4.39 8.19 16.54	0.74 0.74 0.46 0.64 0.74	1 1 5 2	4508 4508 4504 4507 4508	2 10 4 2	13525 13517 13523 13525
C4N W2F H2E W3A H2F Z4B H2S H6A H4B W1K H4B W2F H4B Z2E	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS,NON- BARBITURATE ANTI-ANXIETY DRUGS SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) ANTICONVULSANTS ANTICONVULSANTS ANTICONVULSANTS	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS ANTIPARKINSONISM DRUGS,OTHER LINCOSAMIDES NITROFURAN DERIVATIVES IMMUNOSUPPRESSIVES PLATELET AGGREGATION	1.50 1.50 1.50 1.50 1.50 1.50 1.50	0.14 0.14 0.51 0.27 0.14 0.27 0.14	16.54 16.54 4.39 8.19 16.54 8.19	0.74 0.74 0.46 0.64 0.74 0.64	1 5 2 1 2	4508 4508 4504 4507 4508 4507 4508	2 10 4 2 4 2	13525 13517 13523 13525 13523 13525
C4N W2F H2E W3A H2F Z4B H2S H6A H4B W1K H4B W2F	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) SEDATIVE-HYPNOTICS, NON- BARBITURATE ANTI-ANXIETY DRUGS SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) ANTICONVULSANTS ANTICONVULSANTS	NITROFURAN DERIVATIVES ANTIFUNGAL ANTIBIOTICS LEUKOTRIENE RECEPTOR ANTAGONISTS ANTIPARKINSONISM DRUGS,OTHER LINCOSAMIDES NITROFURAN DERIVATIVES IMMUNOSUPPRESSIVES	1.50 1.50 1.50 1.50 1.50 1.50	0.14 0.14 0.51 0.27 0.14 0.27	16.54 16.54 4.39 8.19 16.54 8.19	0.74 0.74 0.46 0.64 0.74 0.64	1 1 5 2 1	4508 4508 4504 4507 4508 4507 4508	2 10 4 2 4	13525 13517 13523 13525 13523

DRUG_DRUG	DRUG 1	DRUG 2	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
	SEDOTONIN NODEDINEDUDINE	ORAL								
H7C M9L	SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS) NOREPINEPHRINE AND	ANTICOAGULANTS,COUMARIN TYPE	1.50	0.14	16.54	0.74	1	4508	2	13525
	DOPAMINE REUPTAKE INHIB	BETA-ADRENERGIC BLOCKING								
H7D J7C	(NDRIS)	AGENTS	1.50	0.56	4.00	0.42	6	4503	12	13515
J2A W1D	BELLADONNA ALKALOIDS	MACROLIDES	1.50	0.27	8.19	0.64	2	4507	4	13523
J2A W3B	BELLADONNA ALKALOIDS	ANTIFUNGAL AGENTS	1.50	0.14	16.54	0.74	1	4508	2	13525
		BETA-ADRENERGICS AND		-						
		GLUCOCORTICOIDS								
J5D J5G	BETA-ADRENERGIC AGENTS	COMBINATION	1.50	0.38	6.00	0.57	3	4506	6	13521
J5D W1K	BETA-ADRENERGIC AGENTS	LINCOSAMIDES	1.50	0.27	8.19	0.64	2	4507	4	13523
	BETA-ADRENERGICS AND GLUCOCORTICOIDS	LEUKOTRIENE RECEPTOR								
J5G Z4B	COMBINATION	ANTAGONISTS	1.50	0.14	16.54	0.74	1	4508	2	13525
000 Z-ID	ALPHA/BETA-ADRENERGIC	BETA-ADRENERGIC BLOCKING	1.00	0.14	10.54	0.74	-	4000		10020
J7A J7C	BLOCKING AGENTS	AGENTS	1.50	0.14	16.54	0.74	1	4508	2	13525
M4E W2F	LIPOTROPICS	NITROFURAN DERIVATIVES	1.50	0.51	4.39	0.46	5	4504	10	13517
		ORAL								
	HEPARIN AND RELATED	ANTICOAGULANTS,COUMARIN								
M9K M9L	PREPARATIONS	TYPE	1.50	0.14	16.54	0.74	1	4508	2	13525
	ORAL									
	ANTICOAGULANTS,COUMARIN	CEPHALOSPORINS - 2ND								
M9L W1X	TYPE	GENERATION	1.50	0.14	16.54	0.74	1	4508	2	13525
MOD WAG	PLATELET AGGREGATION	OLUNOL ONES		0.00	0.00	^ - -	_	4500	_	40507
M9P W1Q	INHIBITORS	QUINOLONES	1.50	0.38	6.00	0.57	3	4506	6	13521
000 041	EVE ANTIHICTAMINEC	POTASSIUM SPARING DIURETICS	4.50	0.44	40.54	0.74		4500	_	40505
Q6R R1L	EYE ANTHUSTAMINES	IN COMBINATION	1.50	0.14	16.54	0.74	1	4508	2	13525
Q6R W1D	EYE ANTIHISTAMINES POTASSIUM SPARING DIURETICS	MACROLIDES LEUKOTRIENE RECEPTOR	1.50	0.14	16.54	0.74	1	4508	2	13525
R1L Z4B	IN COMBINATION	ANTAGONISTS	1.50	0.27	8.19	0.64	2	4507	4	13523
KIL Z4D	IN COMBINATION	LEUKOTRIENE RECEPTOR	1.50	0.27	0.19	0.04		4307	4	13323
R1M Z4B	LOOP DIURETICS	ANTAGONISTS	1.50	0.27	8.19	0.64	2	4507	4	13523
S2A W1D	COLCHICINE	MACROLIDES	1.50	0.14	16.54	0.74	1	4508	2	13525
02	HYPOGLYCEMICS, BIGUANIDE	GASTRIC ACID SECRETION	1.00	0	.0.0.	0				.0020
C4L D4K	TYPE (NON-SULFONYLUREAS)	REDUCERS	1.47	0.87	2.47	0.15	21	4488	43	13484
	,	HYPOGLYCEMICS, INSULIN-								
C4G C4K	INSULINS	RELEASE STIMULANT TYPE	1.45	0.78	2.69	0.24	15	4494	31	13496
		BETA-ADRENERGIC BLOCKING								
H6H J7C	SKELETAL MUSCLE RELAXANTS	AGENTS	1.45	0.77	2.74	0.26	14	4495	29	13498
	HYPOGLYCEMICS, INSULIN-	HYPOGLYCEMICS, BIGUANIDE								
C4K C4L	RELEASE STIMULANT TYPE	TYPE (NON-SULFONYLUREAS)	1.44	1.13	1.85	0.00	94	4415	196	13331
		BETA-ADRENERGIC BLOCKING								
H3F J7C	ANTIMIGRAINE PREPARATIONS	AGENTS	1.44	0.72	2.87	0.30	12	4497	25	13502
0.114.0.111	HYPOGLYCEMICS, INSULIN-	HYPOGLYCEMICS, INSULIN-			0.40					40450
C4K C4N	RELEASE STIMULANT TYPE	RESPONSE ENHANCER (N-S)	1.44	0.95	2.16	0.08	34	4475	71	13456
M4E W1D	LIPOTROPICS	MACROLIDES	1.42	0.91	2.23	0.12	28	4481	59	13468
R1H R1M	POTASSIUM SPARING DIURETICS	LOOP DILIBETICS	1.38	0.67	2.81	0.38	11	4498	24	13503
C4G W3B	INSULINS	ANTIFUNGAL AGENTS	1.36	0.47	3.92	0.57	5	4504	11	13516
C40 W3B	HYPOGLYCEMICS. BIGUANIDE	ANTII ONGAL AGENTO	1.50	0.47	3.32	0.51	3	4304	- ' '	13310
C4L W1Q	TYPE (NON-SULFONYLUREAS)	QUINOLONES	1.33	0.58	3.07	0.50	8	4501	18	13509
OIL WIR	THE (NON COLF CITTEONER)	ORAL	1.00	0.00	0.01	0.00	-	1001	.0	10000
		ANTICOAGULANTS,COUMARIN								
H6H M9L	SKELETAL MUSCLE RELAXANTS	TYPE	1.33	0.41	4.33	0.63	4	4505	9	13518
M4E Z2E	LIPOTROPICS	IMMUNOSUPPRESSIVES	1.33	0.41	4.33	0.63	4	4505	9	13518
P5A Z2E	GLUCOCORTICOIDS	IMMUNOSUPPRESSIVES	1.33	0.41	4.33	0.63	4	4505	9	13518
C4G M4E	INSULINS	LIPOTROPICS	1.32	0.91	1.91	0.14	40	4469	91	13436
		CALCIUM CHANNEL BLOCKING								
A4D A9A	HYPOTENSIVES, ACE INHIBITORS		1.31	1.03	1.66	0.03		4409	230	13297
A1A R1M	DIGITALIS GLYCOSIDES	LOOP DIURETICS	1.29	0.81	2.07	0.28	25	4484	58	13469
	BETA-ADRENERGIC BLOCKING						_		_	
J7C W4A	AGENTS	ANTIMALARIAL DRUGS	1.29	0.33	4.97	0.72	3	4506	7	13520
041 0411	HYPOGLYCEMICS, BIGUANIDE	HYPOGLYCEMICS, INSULIN-	4.00	0.04	0.04	0.00	-00	4400	0.4	40400
C4L C4N	TYPE (NON-SULFONYLUREAS)	RESPONSE ENHANCER (N-S)	1.28	0.81	2.04	0.29	26	4483	61	13466
	HVPOGLYCEMICS INSULIN	ORAL								
	HYPOGLYCEMICS, INSULIN-	ANTICOAGULANTS,COUMARIN TYPE	1.28	0.55	2.98	0.57	8	4501	19	13508
C4K MOI		1 1 1 E	1.20	0.00	2.30	0.37	O	7501	18	10000
C4K M9L	RELEASE STIMULANT TYPE	HYPOGLYCEMICS INSULING					i l	i		12402
		HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	1 27	0.74	2 17	0.30	10	4490	45	
C4K M9L C4G C4N	INSULINS	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	1.27	0.74	2.17	0.39	19	4490	45	13482
C4G C4N	INSULINS TRICYCLIC ANTIDEPRESSANTS &	RESPONSE ENHANCER (N-S)								
	INSULINS TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	RESPONSE ENHANCER (N-S) LIPOTROPICS	1.27	0.74	2.17 1.92	0.39	19 28	4490 4481	45 68	13459
C4G C4N H2U M4E	INSULINS TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB HYPOGLYCEMICS, INSULIN-	RESPONSE ENHANCER (N-S) LIPOTROPICS BETA-ADRENERGIC BLOCKING	1.24	0.80	1.92	0.35	28	4481	68	13459
C4G C4N	INSULINS TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	RESPONSE ENHANCER (N-S) LIPOTROPICS								
C4G C4N H2U M4E	INSULINS TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB HYPOGLYCEMICS, INSULIN-	RESPONSE ENHANCER (N-S) LIPOTROPICS BETA-ADRENERGIC BLOCKING	1.24	0.80	1.92	0.35	28	4481	68	13459
C4G C4N H2U M4E C4N J7C	INSULINS TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) HYPOGLYCEMICS, INSULIN-	RESPONSE ENHANCER (N-S) LIPOTROPICS BETA-ADRENERGIC BLOCKING AGENTS	1.24	0.80	1.92 2.32	0.35	28	4481 4496	68 32	13459 13495

DDIIO DDIIO	DDUC 4	DDII C 2	0.0	1 OD	11.00	D.VALUE	Δ.		_	
DRUG_DRUG	DRUG 1	DRUG 2 NOREPINEPHRINE AND	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
A9A H7D	CALCIUM CHANNEL BLOCKING AGENTS	DOPAMINE REUPTAKE INHIB (NDRIS)	1.20	0.47	3.09	0.71	6	4503	15	13512
A9A W1K	CALCIUM CHANNEL BLOCKING AGENTS	LINCOSAMIDES	1.20	0.23	6.19	0.83	2	4507	5	13522
A9A W3B	CALCIUM CHANNEL BLOCKING AGENTS	ANTIFUNGAL AGENTS	1.20	0.38	3.83	0.76	4	4505	10	13517
C4N W3B	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	ANTIFUNGAL AGENTS	1.20	0.23	6.19	0.83	2	4507	5	13522
C4L M4E	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	LIPOTROPICS	1.19	0.87	1.63	0.28	56	4453	142	13385
A4D R1L	HYPOTENSIVES, ACE INHIBITORS	POTASSIUM SPARING DIURETICS	1.13	0.68	1.89	0.64	20	4489	53	13474
C4K M9P	HYPOGLYCEMICS, INSULIN- RELEASE STIMULANT TYPE	PLATELET AGGREGATION INHIBITORS	1.13	0.30	4.24	0.86	3	4506	8	13519
A4D R1M	HYPOTENSIVES, ACE INHIBITORS		1.12		1.58	0.53	44	4465	118	13409
	CALCIUM CHANNEL BLOCKING	BETA-ADRENERGIC BLOCKING								
A9A J7C	AGENTS	AGENTS BETA-ADRENERGIC BLOCKING	1.12	0.84	1.49	0.45	65	4444	175	13352
J5D J7C	BETA-ADRENERGIC AGENTS	AGENTS HYPOGLYCEMICS, BIGUANIDE	1.11	0.54	2.30	0.78	10	4499	27	13500
C4G C4L	INSULINS	TYPE (NON-SULFONYLUREAS)	1.10	0.64	1.89	0.72	18	4491	49	13478
H2S H2V	SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS)	ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE	1.09	0.35	3.43	0.88	4	4505	11	13516
A4D R1F	HYPOTENSIVES, ACE INHIBITORS	THIAZIDE AND RELATED	1.07	0.76	1.50	0.69	46	4463	129	13398
C4N D4K	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	GASTRIC ACID SECRETION REDUCERS	1.04	0.47	2.33	0.92	8	4501	23	13504
	HYPOGLYCEMICS, INSULIN-									
C4N M4E	RESPONSE ENHANCER (N-S)	LIPOTROPICS	1.01	0.65	1.57	0.96	27	4482	80	13447
A1A R1H	DIGITALIS GLYCOSIDES ACE INHIBITOR/CALCIUM	POTASSIUM SPARING DIURETICS	1.00	0.27	3.69	1.00	3	4506	9	13518
A4K D4K	CHANNEL BLOCKER COMBINATION ACE INHIBITOR/CALCIUM	GASTRIC ACID SECRETION REDUCERS	1.00	0.20	4.95	1.00	2	4507	6	13521
A4K J7B	CHANNEL BLOCKER COMBINATION ACE INHIBITOR/CALCIUM	ALPHA-ADRENERGIC BLOCKING AGENTS	1.00	0.20	4.95	1.00	2	4507	6	13521
A4K R1F	CHANNEL BLOCKER COMBINATION	THIAZIDE AND RELATED DIURETICS	1.00	0.20	4.95	1.00	2	4507	6	13521
A4K R1L	ACE INHIBITOR/CALCIUM CHANNEL BLOCKER COMBINATION	POTASSIUM SPARING DIURETICS	1.00	0.10	9.61	1.00	1	4508	3	13524
A4K KIL	ACE INHIBITOR/CALCIUM	IN COMBINATION	1.00	0.10	9.01	1.00		4506	3	13324
A4K R1M	CHANNEL BLOCKER COMBINATION CALCIUM CHANNEL BLOCKING	LOOP DIURETICS	1.00	0.10	9.61	1.00	1	4508	3	13524
A9A D4E	AGENTS	ANTI-ULCER PREPARATIONS	1.00	0.10	9.61	1.00	1	4508	3	13524
A9A Z2E	CALCIUM CHANNEL BLOCKING AGENTS	IMMUNOSUPPRESSIVES	1.00	0.27	3.69	1.00	3	4506	9	13518
C4G J7A	INSULINS	ALPHA/BETA-ADRENERGIC BLOCKING AGENTS	1.00	0.10	9.61	1.00	1	4508	3	13524
C4K H7C	HYPOGLYCEMICS, INSULIN- RELEASE STIMULANT TYPE	SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS)	1.00	0.10	9.61	1.00	1	4508	3	13524
C4L C4M	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	HYPOGLYCEMICS, ALPHA- GLUCOSIDASE INHIB TYPE (N-S)	1.00	0.27	3.69	1.00	3	4506	9	13518
C4L W3B	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	ANTIFUNGAL AGENTS	1.00	0.20	4.95	1.00	2	4507	6	13521
C4L W5A	HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS)	ANTIVIRALS, GENERAL	1.00	0.10	9.61	1.00	1	4508	3	13524
C4N H3D	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	ANALGESIC/ANTIPYRETICS, SALICYLATES	1.00	0.10	9.61	1.00	1	4508	3	13524
H2U H3F	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	ANTIMIGRAINE PREPARATIONS	1.00	0.43	2.35		7	4502	21	13506
H2U H6A	TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB	ANTIPARKINSONISM DRUGS,OTHER	1.00	0.10	9.61	1.00	1	4508	3	13524
	ANALGESIC/ANTIPYRETICS,NON- SALICYLATE	PLATELET AGGREGATION							3	
H3E M9P	ANTIPSYCHOTICS,ATYPICAL,DOP	INHIBITORS	1.00	0.10	9.61	1.00	1	4508		13524
H7T J5D	AMINE,& SEROTONIN ANTAG	BETA-ADRENERGIC AGENTS LEUKOTRIENE RECEPTOR	1.00	0.10	9.61	1.00	1	4508	3	13524
J5D Z4B P5A W2F	BETA-ADRENERGIC AGENTS GLUCOCORTICOIDS	ANTAGONISTS NITROFURAN DERIVATIVES	1.00	0.56	1.77 9.61	1.00 1.00	16 1	4493 4508	48 3	13479 13524
	EYE ANTIINFLAMMATORY									
Q6P W1Q	AGENTS	QUINOLONES	1.00	0.10	9.61	1.00	1	4508	3	13524

DRUG_DRUG	DRUG 1	DRUG 2	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
_	THIAZIDE AND RELATED	POTASSIUM SPARING DIURETICS		_	_					
R1F R1L	DIURETICS	IN COMBINATION	1.00	0.10	9.61	1.00	1	4508	3	13524
	ANTIVIRALS, HIV-SPECIFIC,	ANTIVIRALS, HIV-SPECIFIC,								
W5C W5J	PROTEASE INHIBITORS	NUCLEOSIDE ANALOG, RTI	1.00	0.10	9.61	1.00	1	4508	3	13524
	HYPOGLYCEMICS, INSULIN-									
C4K M4E	RELEASE STIMULANT TYPE	LIPOTROPICS	0.96	0.71	1.29	0.79	58	4451	181	13346
	HYPOGLYCEMICS, BIGUANIDE	BETA-ADRENERGIC BLOCKING								
C4L J7C	TYPE (NON-SULFONYLUREAS)	AGENTS	0.95	0.57	1.59	0.85	19	4490	60	13467
H2F W5A	ANTI-ANXIETY DRUGS	ANTIVIRALS, GENERAL	0.90	0.25	3.27	0.87	3	4506	10	13517
	HYPOGLYCEMICS, INSULIN-	BETA-ADRENERGIC BLOCKING								
C4K J7C	RELEASE STIMULANT TYPE	AGENTS	0.88	0.58	1.35	0.56	28	4481	95	13432
		HYPOTENSIVES.ANGIOTENSIN								
A1A A4F	DIGITALIS GLYCOSIDES	RECEPTOR ANTAGONIST	0.88	0.33	2.39	0.81	5	4504	17	13510
		BETA-ADRENERGIC BLOCKING								
A1A J7C	DIGITALIS GLYCOSIDES	AGENTS	0.86	0.50	1.48	0.60	17	4492	59	13468
71171010	DIGITALIO GLI GGGIBLO	7.02.7.0	0.00	0.00		0.00				10100
A4D R1H	HYPOTENSIVES, ACE INHIBITORS	POTASSIUM SPARING DIURETICS	0.86	0.28	2.60	0.79	4	4505	14	13513
	HYPOGLYCEMICS. INSULIN-	TRICYCLIC ANTIDEPRESSANTS &	0.00	0.20		00		.000		
C4N H2U	RESPONSE ENHANCER (N-S)	REL. NON-SEL. RU-INHIB	0.86	0.18	4.13	0.85	2	4507	7	13520
01111120	THIAZIDE AND RELATED	TREE: NOT GEE: NO INTIB	0.00	0.10	1.10	0.00		1007	- 1	10020
R1F R1M	DIURETICS	LOOP DIURETICS	0.80	0.27	2.41	0.69	4	4505	15	13512
TKII IKIWI	ALPHA-ADRENERGIC BLOCKING	BETA-ADRENERGIC BLOCKING	0.00	0.27		0.00		1000	-10	10012
J7B J7C	AGENTS	AGENTS	0.79	0.44	1.43	0.44	14	4495	53	13474
375 370	ORAL	AGENTS	0.13	0.44	1.40	0.44	17	4433	55	10474
	ANTICOAGULANTS,COUMARIN									
M9L P3A	TYPE	THYROID HORMONES	0.79	0.29	2.11	0.64	5	4504	19	13508
IVI9L PSA	HYPOGLYCEMICS, ALPHA-	HYPOGLYCEMICS. INSULIN-	0.79	0.29	2.11	0.04	5	4504	19	13306
CAM CAN	GLUCOSIDASE INHIB TYPE (N-S)		0.75	0.08	C 74	0.00	1	4508	4	40500
C4M C4N	SEROTONIN SPECIFIC REUPTAKE	RESPONSE ENHANCER (N-S)	0.75	0.06	6.71	0.80	- '	4506	4	13523
H2S M9P		INHIBITORS	0.75	0.16	3.53	0.72	2	4507	8	13519
P5A W3A	INHIBITOR (SSRIS) GLUCOCORTICOIDS	ANTIFUNGAL ANTIBIOTICS	0.75	0.16	6.71	0.72	1	4507	4	13523
PSA WSA	HYPOGLYCEMICS, INSULIN-	ANTIFUNGAL ANTIBIOTICS	0.75	0.06	0.71	0.60	- !	4506	4	13323
CAICAMEA		ANTIVIDALS OFNEDAL	0.00	0.07	F 4.4	0.04		4500	_	40500
C4K W5A	RELEASE STIMULANT TYPE	ANTIVIRALS, GENERAL BETA-ADRENERGIC BLOCKING	0.60	0.07	5.14	0.64	1	4508	5	13522
14D 17C	CHOLINESTERASE INHIBITORS	AGENTS	0.60	0.07	5.14	0.64	1	4508	_	13522
J1B J7C		ANTIVIRALS, GENERAL	0.60	0.07	2.07	0.64	3	4508	5 15	13522
M4E W5A	LIPOTROPICS	ANTIVIRALS, GENERAL	0.60	0.17	2.07	0.42	3	4506	15	13512
	ORAL									
N 401 N 40 A	ANTICOAGULANTS,COUMARIN TYPE	ADOODDADIE OUI FONAMIDEO	0.00	0.07	- 44	0.04		4500	_	40500
M9L W2A		ABSORBABLE SULFONAMIDES	0.60	0.07	5.14	0.64	1	4508	5	13522
P5A W3B	GLUCOCORTICOIDS	ANTIFUNGAL AGENTS	0.56	0.16	1.93	0.36	3	4506	16	13511
		ORAL								
040 1401	INIOLII INIO	ANTICOAGULANTS,COUMARIN	0.55	0.40	0.40	0.40	_	4507		40540
C4G M9L	INSULINS	TYPE	0.55	0.12	2.46	0.43	2	4507	11	13516
	HYPOGLYCEMICS, INSULIN-	ALPHA/BETA-ADRENERGIC								
C4K J7A	RELEASE STIMULANT TYPE	BLOCKING AGENTS	0.50	0.06	4.15	0.52	1	4508	6	13521
	POTASSIUM SPARING DIURETICS									
R1L R1M	IN COMBINATION	LOOP DIURETICS	0.50	0.06	4.15	0.52	1	4508	6	13521
	HYPOGLYCEMICS, INSULIN-	0.000								
C4N W1Q	RESPONSE ENHANCER (N-S)	QUINOLONES	0.43	0.05	3.48	0.43	1	4508	7	13520
	TRICYCLIC ANTIDEPRESSANTS &	PLATELET AGGREGATION								
H2U M9P	REL. NON-SEL. RU-INHIB	INHIBITORS	0.43	0.05	3.48	0.43	1	4508	7	13520
	HYPOGLYCEMICS, INSULIN-									
C4N W1D	RESPONSE ENHANCER (N-S)	MACROLIDES	0.38	0.05	3.00	0.36	1	4508	8	13519
	CALCIUM CHANNEL BLOCKING	ALPHA/BETA-ADRENERGIC								
A9A J7A	AGENTS	BLOCKING AGENTS	0.30	0.04	2.34	0.25	1	4508	10	13517
A2A M4E	ANTIARRHYTHMICS	LIPOTROPICS	0.27	0.04	2.11	0.21	1	4508	11	13516

APPENDIX VIII. Table 3B Significant Odds Ratios for Drug Interactions

DRUG PRUG DRUG DRUG DRUG DRUG DRUG DR PVALUE A B C DR PVALUE A B C		Α	В	С	D	E	F	G	Н	1	J	K
3 HYC WITQ SEROTONIN NOREPREPRIANE QUINOLONES 2100 258 170.60 0.00 7 4902 1 15326 4 486 147 15726 4 486 147 15726 4 486 147 15726 4 486 147 15726 4 4 4 4 4 4 4 4 4	1	DRUG_DRUG	DRUG 1	DRUG 2	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
BITCH STATE STAT	2	H4B W3B		ANTIFUNGAL AGENTS	21.00	2.58	170.69	0.00	7	4502	1	13526
Methy Meth	3	H7C W1Q			21.00	2.58	170.69	0.00	7	4502	1	13526
CAR WAR		HCHLIZT	CKELETAL MUSCLE DELAVANTO		10.00	0.47	140.50	0.04	0	4500	4	42520
6 H2S H7B NIHBITOR (ISSRIS) ANTICOMULEANTS ALTICOMULEANTS ALTICO	4	HOH H/ I		ANIINE,& SEROTONIN ANTAG	18.00	2.17	149.52	0.01	Ö	4503	- 1	13526
PIRST PIRST NINHBITCR (SSRIS)	5	C4K W2A	RELEASE STIMULANT TYPE	ABSORBABLE SULFONAMIDES	15.00	1.75	128.40	0.01	5	4504	1	13526
7 HB J3A ANTICONVUISANTS BELLADONNA AKALOIOS 120 134 197 37 0.03 4 4505 1 13526												
B H2U HT TRICYCLIC ANTIDEPRESSATIS A ANTIPSYCHOTICS, ATYPICAL DOP												
9 PUTWIK ANTI-ANXIETY DRUGS LINCOSAMIDES 7,50 1,46 38,66 0,02 5,4504 2 13525 10 PES HTC INHIBITOR (SSRIS) ARTICONVILLANTS 7,50 1,46 38,66 0,02 5,4504 2 13525 11 PES HTC INHIBITOR (SSRIS) ARTICONVILLANTS 7,50 1,46 38,66 0,02 5,4504 2 13525 12 C4G HTC INSULIN SERGIONIN NOREPIREPHRINE 7,50 1,46 38,66 0,02 5,4504 2 13525 13 C4G HTC INSULIN SERGIONIN NOREPIREPHRINE 7,50 1,46 38,66 0,02 5,4504 2 13525 14 HTT Z2A ASSESTMULANT TYPE TRICYCLIC ANTIDEPRESSANTS 7,50 0,00 4 4505 2 13525 14 HTT Z2A AMILEA SEROTONIN ANTAG AMILEA SEROTONIN ANTAG AMILEA SEROTONIN ANTAG ANTICOAGULANTS, COUMARIN NSAIDS, CYCLOOXYGENASE 1,17 1,17 1,17 1,17 15 MSI, SZB TYPE TRICYCLIC ANTIDEPRESSANTS 1,17 1,1												
1	_											
11 H2D H8B BARBITURATES ANTICONVULSANTS SEROTONIN NOREPINEPIRINE			SEROTONIN SPECIFIC REUPTAKE									
12 C4G H7C												
1	<u>'''</u>	11201140	BARBITORATES		0.00	1.50	20.99	0.01	U	4505	J	10024
13 CAM HZU RELEASE STIMULANT TYPE ANTIFISYCHOTICS ATYPICAL DOP ANTIFISYCHOTICS ATYPIC	12	C4G H7C			6.00	1.10	32.76	0.04	4	4505	2	13525
14 H7T ZZA	13	C4K H2U	· ·		4.50	2.02	10.02	0.00	15	4494	10	13517
15 M9L S2B			ANTIPSYCHOTICS,ATYPICAL,DOP		4.00	4.00	40.00	0.04			_	
ANTICOAGULANTS, COUMARIN NSAIDS, CYCLOOXYGENASE 1,15 2,04 8,84 0,00 18 4491 13 13514	14	H/1 Z2A	*	ANTIHISTAMINES	4.20	1.33	13.23	0.01	7	4502	5	13522
16 HeH WID SKELETAL MUSCLE RELAXANTS MACROLIDES 4.07 2.04 8.12 0.00 19 4490 14 13513	l .		ANTICOAGULANTS,COUMARIN									
SEROTONIN SPECIFIC REUPTAKE UNINOLONES 4.00 2.17 7.37 0.00 24 4485 18 13509 18 12524 18 12524 18 13509 18 12524 18 12524 19 19 19 19 19 19 19 1												
SEDATIVE-HYPNOTICS,NON-BARBITURATE	10	TIOTI WID		WACKOLIDES	4.07	2.04	0.12	0.00	19	4430	17	13313
18 H2E H4B	17	H2S W1Q		QUINOLONES	4.00	2.17	7.37	0.00	24	4485	18	13509
19 H3A H7T	18	H2E H4B			3.92	1.91	8.08	0.00	17	4492	13	13514
20 BJJ WSA	40	LIOALIZT	ANALOECICS NARCOTICS		2.75	4 40	0.50	0.04	40	4400		10510
ANTIPSYCHOTICS ATYPICAL DOP BETA-ADRENERGIC BLOCKING AMINE, & SEROTONIN ANTAG AMINE, & SEROTONIN ANTAG SEROTONIN ANTAG SEROTONIN ANTAG SEROTONIN ANTAG SEROTONIN ANTAG SEROTONIN ANTAG SEROTONIN SPECIFIC REUPTAKE ANTICONVULSANTS REUPTAKE-INHIB (SNRIS) 3.67 1.52 8.85 0.00 11 4498 9 13518			,									
22 H4B H7C ANTICONVULSANTS SEROTONIN-NOREPINEPHRINE SEROTONIN SPECIFIC REUPTAKE SERO			ANTIPSYCHOTICS,ATYPICAL,DOP	BETA-ADRENERGIC BLOCKING								
22 H4B H7C	21	H7T J7C	AMINE,& SEROTONIN ANTAG		3.75	1.01	13.97	0.05	5	4504	4	13523
23 H2S H3A INHIBITOR (SSRIS) ANALGESICS, NARCOTICS 3.64 2.72 4.85 0.00 104 4405 88 13439 24 J5D Z2F BETA-ADRENERGIC AGENTS MAST CELL STABILIZERS 3.60 1.10 11.80 0.03 6 4503 5 13522 25 M4E WIK LIPOTROPICS LINCOSAMIDES 3.60 1.10 11.80 0.03 6 4503 5 13522 26 M9L W1W TYPE GENERATION GENERATION GENERATION 3.60 1.10 11.80 0.03 6 4503 5 13522 27 H2F H7C ANTI-ANXIETY DRUGS REPOTANKE-INHIB (SNRIS) 3.55 1.59 7.91 0.00 13 4496 11 13516 28 H2F W3B ANTI-ANXIETY DRUGS ANTIFUNGAL AGENTS 3.43 1.24 9.45 0.02 8 4501 7 13520 29 H2F H2U ANTI-ANXIETY DRUGS REL NON-SEL RU-INHIB 3.40 2.08 5.56 0.00 34 4475 30 13497 30 H2S H7T INHIBITOR (SSRIS) AMINE, & SEROTONIN ANTAG 3.40 1.70 6.81 0.00 17 4492 15 13512 31 A1A AZA DIGITALIS GLYCOSIDES ANTIRARHYTHMICS 3.38 1.30 8.75 0.01 9 4500 8 13519 32 CAN H2S RESPONSE ENHANCER (N-S) SEROTONIN SPECIFIC REUPTAKE NIHIBITOR (SSRIS) NIHIBITOR (SSRIS) NIHIBITOR (SSRIS) NIHIBITOR (SSRIS) 3.00 1.39 6.47 0.01 11 4498 10 13517 33 H6H W1Q SKELETAL MUSCLE RELAXANTS NIHIBITOR (SSRIS) 3.00 1.05 8.55 0.04 7 4502 7 13520 34 H2U W1D REL NON-SEL RU-INHIB MACROLIDES 3.00 1.39 6.47 0.01 13 4496 13 13514 35 M9L M9P TYPE NIHIBITOR (SSRIS) SEROTONIN SPECIFIC REUPTAKE NIHIBITOR (SSRIS) 3.00 1.05 8.55 0.04 7 4502 7 13520 36 BJ H2S EXPECTORANTS NIHIBITOR (SSRIS) 2.96 1.70 5.17 0.00 25 4484 26 13501 37 H4B M9L ANTICONVULSANTS TYPE (NIHIBITOR (SSRIS) 2.96 1.70 5.17 0.00 25 4484 26 13512 38 H4B W1D ANTICONVULSANTS MACROLIDES 2.70 1.85 4.20 0.00 45 4464 49 13478 39 H2E H3A BARBITURATE ANALGESICS, NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 40 H2F H2S ANTI-ANXIETY DRUG	22	H4B H7C			3.67	1.52	8.85	0.00	11	4498	9	13518
24 JBD Z2F	23	H36 H3V		ANALGESICS NAPCOTICS	3.64	2 72	1 85	0.00	104	4405	QΩ	13/30
25 M4E W1K	_		, ,	*								
26 M9L W1W TYPE GENERATION 3.60 1.10 11.80 0.03 6 4503 5 13522 27 H2F H7C ANTI-ANXIETY DRUGS REUPTAKE-INHIB (SNRIS) 3.55 1.59 7.91 0.00 13 4496 11 13516 28 H2F W3B ANTI-ANXIETY DRUGS ANTIFUNCAL AGENTS 3.43 1.24 9.45 0.02 8 4501 7 13520 29 H2F H2U ANTI-ANXIETY DRUGS REL NON-SEL RU-INHIB 3.40 2.08 5.56 0.00 34 4475 30 13497 SEROTONIN SPECIFIC REUPTAKE ANTIFSYCHOTICS, ATYPICAL, DOP AMINE, & SEROTONIN ANTAG 3.40 1.70 6.81 0.00 17 4492 15 13512 31 A1A A2A DIGITALIS GLYCOSIDES ANTIARRHYTHMICS 3.38 1.30 8.75 0.01 19 4500 8 13519 32 C4N H2S RESPONSE ENHANCER (N-S) INHIBITOR (SSRIS) 3.30 1.40 7.77 0.01 11 4498 10 13517 33 H6H W1Q SKELETAL MUSCLE RELAXANTS (UINOLONES 3.27 1.44 7.42 0.00 12 4497 11 13516 4 H2U W1D REL. NON-SEL. RU-INHIB MACROLIDES 3.00 1.39 6.47 0.01 13 4496 13 13514 ORAL ANTICOAGULANTS, COUMARIN HIBITOR (SSRIS) 3.00 1.05 8.55 0.04 7 4502 7 13520 SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) 2.96 1.70 5.17 0.00 25 4484 26 13501 ORAL ANTICOAGULANTS TYPE 2.93 1.39 6.19 0.00 14 4495 15 13512 38 H4B W1D ANTICONVULSANTS MACROLIDES 2.80 1.35 5.80 0.01 14 4495 15 13512 39 H2E H3A BARBITURATE ANALGESICS, NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 40 H2F H2S ANTI-ANXIETY DRUGS INHIBITOR (SSRIS) 2.71 2.02 3.64 0.00 85 4424 94 13433 H1AZIDE AND FELL FELL FELL FELL FELL FELL FELL FEL	_		LIPOTROPICS									
SEROTONIN-NOREPINEPHRINE REUPTAKE-INHIB (SNRIS) 3.55 1.59 7.91 0.00 13 4496 11 13516	26	MOL \A/4\A/			2 60	1 10	11 00	0.03	6	4502	_	12522
28 H2F W3B	20	INISE AN LAN	1175		3.00	1.10	11.00	0.03	U	4505	5	13322
TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB RESPONSE ENTANCER (N-S) AMINE, & SEROTONIN ANTAG RESPONSE ENTANCER (N-S) RESPONSE ENHANCER (N-S) INHIBITOR (SSRIS) RESPONSE ENHANCER (N-S) INHIBITOR (SSRIS) RESPONSE ENHANCER (N-S) INHIBITOR (SSRIS) REL. NON-SEL. RU-INHIB REL. NON-SEL. RU-INHIB				- (/								
29 H2F H2U	28	H2F W3B	ANTI-ANXIETY DRUGS		3.43	1.24	9.45	0.02	8	4501	/	13520
30 H2S H7T INHIBITOR (SSRIS) AMINE,& SEROTONIN ANTAG 3.40 1.70 6.81 0.00 17 4492 15 13512 31 A1A A2A DIGITALIS GLYCOSIDES ANTIARRHYTHMICS 3.38 1.30 8.75 0.01 9 4500 8 13519 HYPOGLYCEMICS, INSULIN- SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) 3.30 1.40 7.77 0.01 11 4498 10 13517 32 C4N H2S RESPONSE ENHANCER (N-S) INHIBITOR (SSRIS) 3.27 1.44 7.42 0.00 12 4497 11 13516 TRICYCLIC ANTIDEPRESSANTS & TRIC	29	H2F H2U		REL. NON-SEL. RU-INHIB	3.40	2.08	5.56	0.00	34	4475	30	13497
31 A1A A2A DIGITALIS GLYCOSIDES ANTIARRHYTHMICS 3.38 1.30 8.75 0.01 9 4500 8 13519	30	H2S H7T			3.40	1 70	6 81	0.00	17	4402	15	13512
HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S) INHIBITOR (SSRIS) 3.30 1.40 7.77 0.01 11 4498 10 13517			DIGITALIS GLYCOSIDES									
33 H6H W1Q SKELETAL MUSCLE RELAXANTS QUINOLONES 3.27 1.44 7.42 0.00 12 4497 11 13516 TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB MACROLIDES 3.00 1.39 6.47 0.01 13 4496 13 13514 ORAL			HYPOGLYCEMICS, INSULIN-	SEROTONIN SPECIFIC REUPTAKE								
TRICYCLIC ANTIDEPRESSANTS & REL. NON-SEL. RU-INHIB MACROLIDES 3.00 1.39 6.47 0.01 13 4496 13 13514												
ORAL ANTICOAGULANTS,COUMARIN PLATELET AGGREGATION INHIBITORS 3.00 1.05 8.55 0.04 7 4502 7 13520 SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) ORAL ANTICONVULSANTS ORAL ANTICOAGULANTS,COUMARIN TYPE 2.96 1.70 5.17 0.00 25 4484 26 13501 ORAL ANTICOAGULANTS,COUMARIN TYPE 2.93 1.39 6.19 0.00 14 4495 15 13512 SEDATIVE-HYPNOTICS,NON- SEDATIVE-HYPNOTICS,NON- BARBITURATE ANALGESICS,NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) 2.71 2.02 3.64 0.00 85 4424 94 13433 HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS) INHIBITOR (SSRIS) THIAZIDE AND RELATED			TRICYCLIC ANTIDEPRESSANTS &									
ANTICOAGULANTS,COUMARIN TYPE INHIBITORS 3.00 1.05 8.55 0.04 7 4502 7 13520 SEROTONIN SPECIFIC REUPTAKE INHIBITORS 2.96 1.70 5.17 0.00 25 4484 26 13501 ORAL ANTICOAGULANTS,COUMARIN ANTICOAGULANTS,COUMARIN ANTICOAGULANTS,COUMARIN ANTICOAGULANTS,COUMARIN ANTICONVULSANTS TYPE 2.93 1.39 6.19 0.00 14 4495 15 13512 SEDATIVE-HYPNOTICS,NON-BARBITURATE ANALGESICS,NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) 2.71 2.02 3.64 0.00 85 4424 94 13433 HYPOGLYCEMICS, BIGUANIDE INHIBITOR (SSRIS) 2.68 1.40 5.16 0.00 17 4492 19 13508 THIAZIDE AND RELATED	34	H2U W1D		MACROLIDES	3.00	1.39	6.47	0.01	13	4496	13	13514
SEROTONIN SPECIFIC REUPTAKE 1.70 5.17 0.00 25 4484 26 1.3501			ANTICOAGULANTS,COUMARIN									
SEROTONIN SPECIFIC REUPTAKE ANTI-ANXIETY DRUGS SEROTONIN SPECIFIC REUPTAKE HYPOGLYCEMICS, BIGUANIDE SEROTONIN SPECIFIC REUPTAKE HYPOGLYCEMICS, BIGUANIDE SEROTONIV SPECIFIC REUPTAKE HYPOGLYCEMICS, BIGUANIDE HYPOGLYCEMICS, BIGUANIDE SEROTONIV SPECIFIC REUPTAKE HYPOGLYCEMICS, BIGUANIDE HYPO	35	M9L M9P	TYPE		3.00	1.05	8.55	0.04	7	4502	7	13520
ANTICOAGULANTS,COUMARIN 37 H4B M9L ANTICONVULSANTS TYPE 2.93 1.39 6.19 0.00 14 4495 15 13512 38 H4B W1D ANTICONVULSANTS MACROLIDES 2.80 1.35 5.80 0.01 14 4495 15 13512 SEDATIVE-HYPNOTICS,NON- BARBITURATE ANALGESICS,NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 SEROTONIN SPECIFIC REUPTAKE HYPOGLYCEMICS, BIGUANIDE SEROTONIN SPECIFIC REUPTAKE HYPOGLYCEMICS, BIGUANIDE SEROTONIN SPECIFIC REUPTAKE TYPE (NON-SULFONYLUREAS) INHIBITOR (SSRIS) 2.68 1.40 5.16 0.00 17 4492 19 13508 THIAZIDE AND RELATED	36	B3J H2S	EXPECTORANTS	INHIBITOR (SSRIS)	2.96	1.70	5.17	0.00	25	4484	26	13501
37 H4B M9L ANTICONVULSANTS TYPE 2.93 1.39 6.19 0.00 14 4495 15 13512 38 H4B W1D ANTICONVULSANTS MACROLIDES 2.80 1.35 5.80 0.01 14 4495 15 13512 39 H2E H3A BARBITURATE ANALGESICS,NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 40 H2F H2S ANTI-ANXIETY DRUGS INHIBITOR (SSRIS) 2.71 2.02 3.64 0.00 85 4424 94 13433 41 C4L H2S TYPE (NON-SULFONYLUREAS) INHIBITOR (SSRIS) 2.68 1.40 5.16 0.00 17 4492 19 13508				- · · · · -								
SEDATIVE-HYPNOTICS,NON- BARBITURATE				TYPE								
39 H2E H3A BARBITURATE ANALGESICS,NARCOTICS 2.79 1.85 4.20 0.00 45 4464 49 13478 40 H2F H2S ANTI-ANXIETY DRUGS INHIBITOR (SSRIS) 2.71 2.02 3.64 0.00 85 4424 94 13433 41 C4L H2S TYPE (NON-SULFONYLUREAS) INHIBITOR (SSRIS) 2.68 1.40 5.16 0.00 17 4492 19 13508 THIAZIDE AND RELATED 4.20 0.00 45 4464 49 13478	38	H4B W1D		MACROLIDES	2.80	1.35	5.80	0.01	14	4495	15	13512
40 H2F H2S ANTI-ANXIETY DRUGS INHIBITOR (SSRIS) 2.71 2.02 3.64 0.00 85 4424 94 13433 41 C4L H2S HYPOGLYCEMICS, BIGUANIDE TYPE (NON-SULFONYLUREAS) SEROTONIN SPECIFIC REUPTAKE INHIBITOR (SSRIS) 2.68 1.40 5.16 0.00 17 4492 19 13508 THIAZIDE AND RELATED THIAZIDE AND RELAT	39	H2E H3A		ANALGESICS,NARCOTICS	2.79	1.85	4.20	0.00	45	4464	49	13478
HYPOGLYCEMICS, BIGUANIDE SEROTONIN SPECIFIC REUPTAKE 41 C4L H2S TYPE (NON-SULFONYLUREAS) INHIBITOR (SSRIS) 2.68 1.40 5.16 0.00 17 4492 19 13508 THIAZIDE AND RELATED	40	HJE HJG	ANTLANVIETY DRUGS		2 74	2.00	264	0.00	0=	1121	0.4	12422
THIAZIDE AND RELATED	40	112F 1125			2.11		3.04	0.00		4424	94	13433
	41	C4L H2S	TYPE (NON-SULFONYLUREAS)		2.68	1.40	5.16	0.00	17	4492	19	13508
	42	A1A R1F	DIGITALIS GLYCOSIDES		2.67	1.03	6.91	0.04	8	4501	9	13518

APPENDIX VIII. Table 3B Significant Odds Ratios for Drug Interactions

	Α	В	С	D	Е	F	G	Н	1	J	K
1	DRUG_DRUG	DRUG 1	DRUG 2	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
			SEROTONIN-2								
		CALCIUM CHANNEL BLOCKING	ANTAGONIST/REUPTAKE								
43	A9A H7E	AGENTS	INHIBITORS (SARIS)	2.63	1.28	5.38	0.01	14	4495	16	13511
			ORAL								
		SEROTONIN SPECIFIC REUPTAKE	ANTICOAGULANTS,COUMARIN								
44	H2S M9L	INHIBITOR (SSRIS)	TYPE	2.57	1.19	5.56	0.02	12	4497	14	13513
		TRICYCLIC ANTIDEPRESSANTS &									
45	H2U W1Q	REL. NON-SEL. RU-INHIB	QUINOLONES	2.45	1.02	5.92	0.05	9	4500	11	13516
		HYPOGLYCEMICS, INSULIN-	SEROTONIN SPECIFIC REUPTAKE								
46	C4K H2S	RELEASE STIMULANT TYPE	INHIBITOR (SSRIS)	2.44	1.39	4.29	0.00	22	4487	27	13500
47	H2F W1D	ANTI-ANXIETY DRUGS	MACROLIDES	2.42	1.36	4.31	0.00	21	4488	26	13501
48	H2F J5D	ANTI-ANXIETY DRUGS	BETA-ADRENERGIC AGENTS	2.36	1.41	3.95	0.00	26	4483	33	13494
		SEROTONIN SPECIFIC REUPTAKE									
49	H2S H3F	INHIBITOR (SSRIS)	ANTIMIGRAINE PREPARATIONS	2.35	1.27	4.35	0.01	18	4491	23	13504
		TRICYCLIC ANTIDEPRESSANTS &									
50	H2U H3A	REL. NON-SEL. RU-INHIB	ANALGESICS, NARCOTICS	2.34	1.62	3.39	0.00	50	4459	64	13463
51	P5A W1D	GLUCOCORTICOIDS	MACROLIDES	2.31	1.51	3.55	0.00	37	4472	48	13479
		HYPOGLYCEMICS, BIGUANIDE	TRICYCLIC ANTIDEPRESSANTS &								
52	C4L H2U	TYPE (NON-SULFONYLUREAS)	REL. NON-SEL. RU-INHIB	2.29	1.11	4.72	0.02	13	4496	17	13510
			GASTRIC ACID SECRETION								
53	C4G D4K	INSULINS	REDUCERS	2.21	1.32	3.70	0.00	25	4484	34	13493
54	H2F W1Q	ANTI-ANXIETY DRUGS	QUINOLONES	2.20	1.27	3.81	0.00	22	4487	30	13497
		HYPERURICEMIA TX - PURINE	GASTRIC ACID SECRETION								
55	C7A D4K	INHIBITORS	REDUCERS	2.12	1.01	4.46	0.05	12	4497	17	13510
		HYPOGLYCEMICS, INSULIN-									
56	C4K W1D	RELEASE STIMULANT TYPE	MACROLIDES	2.05	1.06	3.94	0.03	15	4494	22	13505
		CALCIUM CHANNEL BLOCKING	GASTRIC ACID SECRETION								
57	A9A D4K	AGENTS	REDUCERS	1.77	1.35	2.33	0.00	85	4424	145	13382
		HYPOGLYCEMICS, INSULIN-	GASTRIC ACID SECRETION								
58	C4K D4K	RELEASE STIMULANT TYPE	REDUCERS	1.75	1.13	2.73	0.01	31	4478	53	13474
		SEROTONIN SPECIFIC REUPTAKE									
59	H2S M4E	INHIBITOR (SSRIS)	LIPOTROPICS	1.75	1.33	2.32	0.00	79	4430	136	13391
60	B3J Z2A	EXPECTORANTS	ANTIHISTAMINES	1.74	1.06	2.86	0.03	25	4484	43	13484
61	M4E W1Q	LIPOTROPICS	QUINOLONES	1.55	1.02	2.34	0.04	34	4475	66	13461
		HYPOGLYCEMICS, INSULIN-	HYPOGLYCEMICS, BIGUANIDE								
62	C4K C4L	RELEASE STIMULANT TYPE	TYPE (NON-SULFONYLUREAS)	1.44	1.13	1.85	0.00	94	4415	196	13331
			CALCIUM CHANNEL BLOCKING								
63	A4D A9A	HYPOTENSIVES, ACE INHIBITORS	AGENTS	1.31	1.03	1.66	0.03	100	4409	230	13297

DISEASE_DRUG		DISEASE	OR	L_OR	_	P-VALUE		В	С	D
30000 P5A		ANXIETY STATE UNSPEC	15.00		128.40	0.01	5	4504		13526
07054 H3A	ANALGESICS,NARCOTICS	CHR HEPATITIS C WOCOMA	12.00	1.34	107.37	0.03	4	4505	1	13526
	ANTI-NARCOLEPSY/ANTI-									
4019 H2V	HYPERKINESIS, STIMULANT-TYPE	UNS HYPERTENSION	12.00	1.34	107.37	0.03	4	4505	1	13526
		PRIMARY PULMONARY								
4160 J5D	BETA-ADRENERGIC AGENTS	HYPERTENSION	9.00	0.94	86.53	0.06	3	4506	1	13526
5715 H3A	ANALGESICS,NARCOTICS	CIRRHOSIS LIVER WO ALCOHOL	9.00	0.94	86.53	0.06	3	4506	1	13526
	HYPOGLYCEMICS, BIGUANIDE									
7802 C4L		SYNCOPE/COLLAPSE	9.00	0.94	86.53	0.06	3	4506	1	13526
4054 174	ALPHA/BETA-ADRENERGIC BLOCKING AGENTS	OTH PRIMARY CARDIOMYOPATHIES	7.50	1.46	38.66	0.02	5	4504	2	13525
4254 J7A	CALCIUM CHANNEL BLOCKING	CARDIOWTOLATTIES	7.50	1.40	36.00	0.02	5	4304		13323
7802 A9A	AGENTS	SYNCOPE/COLLAPSE	7.00	1.81	27.07	0.00	7	4502	3	13524
									Ť	
7802 A4D	HYPOTENSIVES, ACE INHIBITORS	SYNCOPE/COLLAPSE	6.75	2.08	21.92	0.00	9	4500	4	13523
07051 R1M	LOOP DIURETICS	AC/UNS HEPATITIS C WOCOMA	6.00	0.54	66.17	0.14	2	4507	1	13526
	SEROTONIN SPECIFIC REUPTAKE									
07054 H2S	INHIBITOR (SSRIS)	CHR HEPATITIS C WOCOMA	6.00	0.54	66.17	0.14	2	4507	1	13526
05040 A4D	LIVEOTENCIVES ASE INTURITORS			0.44	0	4507	ارا	42500		
25040 A4D 25040 C4G	HYPOTENSIVES, ACE INHIBITORS INSULINS	DIABETES RENAL MANIF TYPE II	6.00	0.54 0.54	66.17 66.17	0.14 0.14	2	4507 4507		13526 13526
25040 040	HYPOTENSIVES, ANGIOTENSIN	DIABETES RENAL MANIF TITE II	0.00	0.54	00.17	0.14		4307	++	13320
25050 A4F		DIABETES EYE MANIF TYPE II	6.00	0.54	66.17	0.14	2	4507	1	13526
29620 P5A		DEPRESSIVE TYPE PSYCHOSIS	6.00	0.54	66.17	0.14	2	4507		13526
		MAJ DEPRESS DIS SGL EPI								
29622 P5A		MODERATE	6.00	0.54	66.17	0.14		4507		13526
29690 Z2A	ANTIHISTAMINES	UNS AFFECTIVE PSYCHOSIS	6.00	0.54	66.17	0.14	2	4507		13526
3004 P5A		NEUROTIC DEPRESSION	6.00	0.54	66.17	0.14	2	4507	1	13526
04540 704		GRAND MALY WO INTRACT	0.00	0.54	00.47	0.44	•	4507	ارا	40500
34510 Z2A	ANTIHISTAMINES BETA-ADRENERGICS AND	EPILEPSY	6.00	0.54	66.17	0.14	2	4507	1	13526
	GLUCOCORTICOIDS									
4011 J5G		BENIGN HYPERTENSION	6.00	0.54	66.17	0.14	2	4507	1	13526
1011000		HYPERTENSIVE HEART DIS	0.00	0.0.	00.11	0.11	-			.0020
40290 S2B	INHIBITOR - TYPE	UNSPEC	6.00	0.54	66.17	0.14	2	4507	1	13526
	ORAL									
	ANTICOAGULANTS,COUMARIN	OTH PRIMARY								
4254 M9L	TYPE	CARDIOMYOPATHIES	6.00	1.10	32.76	0.04	4	4505	2	13525
4000 170	BETA-ADRENERGIC BLOCKING	LING HEADT FAILURE	0.00	0.54	00.47	0.44	0	4507		42520
4289 J7C	AGENTS ANALGESIC/ANTIPYRETICS,NON-	UNS HEART FAILURE UNS ASTHMA WOSTATUS	6.00	0.54	66.17	0.14	2	4507	1	13526
49390 H3E	SALICYLATE	ASTHMATICUS	6.00	0.54	66.17	0.14	2	4507	1	13526
5715 C4G	INSULINS	CIRRHOSIS LIVER WO ALCOHOL	6.00	0.54	66.17	0.14	2	4507		13526
0.10010	SEROTONIN SPECIFIC REUPTAKE		0.00	0.0.	00	0.11	_		mi	.0020
585 H2S	INHIBITOR (SSRIS)	CHRONIC RENAL FAILURE	6.00	0.54	66.17	0.14	2	4507	1	13526
25000 A4B	HYPOTENSIVES, SYMPATHOLYTIC	DIABETES UNCOMPL TYPE II	4.50	1.60	12.64	0.00	9	4500	6	13521
	BETA-ADRENERGIC BLOCKING									
25001 J7C	AGENTS	DIABETES UNCOMPL TYPE I	3.67	1.52	8.85	0.00		4498		13518
4011 J5D	BETA-ADRENERGIC AGENTS NSAIDS, CYCLOOXYGENASE	BENIGN HYPERTENSION	3.20	1.58	6.47	0.00	16	4493	15	13512
4011 S2B	INHIBITOR - TYPE	BENIGN HYPERTENSION	3.16	2.03	4.92	0.00	4 0	4469	38	13489
07044 H3A		CHR HEPATITIS C W COMA		0.19		0.44				13526
			3.00	20		5.11		.550	Ħ	. 3020
07051 R1H	POTASSIUM SPARING DIURETICS	AC/UNS HEPATITIS C WOCOMA	3.00	0.19	47.96	0.44	1	4508	1	13526
07054 H4B	ANTICONVULSANTS	CHR HEPATITIS C WOCOMA	3.00	0.19	47.96	0.44	1	4508	1	13526
25000 A4Y	HYPOTENSIVES, MISCELLANEOUS		3.00	0.42	21.30	0.27	2	4507	2	13525
05000 4 45		DIABETES UNCOMP TYPE II			.=			.=		40=00
25002 A4B	HYPOTENSIVES, SYMPATHOLYTIC	UNCONTRD	3.00	0.19	47.96	0.44	1	4508	1	13526
25040 445	HYPOTENSIVES, ANGIOTENSIN	DIADETEC DENAL MANIE TYPE II	3.00	0.10	47.06	0.44	1	4500	1	12526
25040 A4F	RECEPTOR ANTAGONIST BETA-ADRENERGIC BLOCKING	DIABETES RENAL MANIF TYPE II	3.00	0.19	47.96	0.44	1	4508		13526
25040 J7C		DIABETES RENAL MANIF TYPE II	3.00	0.19	47.96	0.44	1	4508	1	13526
25040 R1M		DIABETES RENAL MANIF TYPE II	3.00		47.96	0.44	1	4508		13526
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25041 A4D	HYPOTENSIVES, ACE INHIBITORS	DIABETES RENAL MANIF TYPE I	3.00	0.42	21.30	0.27	2	4507	2	13525
-	THIAZIDE AND RELATED									
25041 R1F	DIURETICS	DIABETES RENAL MANIF TYPE I	3.00		47.96	0.44	1	4508		13526
25041 W1Q	QUINOLONES	DIABETES RENAL MANIF TYPE I	3.00	0.19	47.96	0.44	1	4508	1	13526
25042 040		DIABETES RENAL MANIF TYPE II	0.00	0.10	47.00		4	4500		10500
25042 C4G	INSULINS RETA ADDENEDGIC BLOCKING	UNC DIABETES NEUR MANIF TYPE II	3.00	0.19	47.96	0.44	1	4508	1	13526
25062 J7C	BETA-ADRENERGIC BLOCKING AGENTS	UNCN	3.00	0.19	47.96	0.44	4	4508	4	13526
20002 J/ C		ACUTE DELIRIUM	3.00	0.19	47.96	0.44 0.44	1	4508		13526
2030 H2E									. 11	10020
2930 H2F		BIPOLAR AFFECT DIS DEPRESS	0.00	0.10	11.00	0.11		4500	m	

DISEASE_DRUG	DRUG	DISEASE	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
		UNS MANIC DEPRESSIVE								
29680 H2M	ANTI-MANIA DRUGS	PSYCHOSIS	3.00	0.19	47.96	0.44	1	4508	1	13526
	SEDATIVE-HYPNOTICS,NON-				4= 00			.=		40500
29690 H2E	BARBITURATE	UNS AFFECTIVE PSYCHOSIS	3.00	0.19	47.96	0.44	1	4508	1	13526
20000 1100	SEROTONIN SPECIFIC REUPTAKE		2.00	0.40	24.20	0.07	_	4507	_	40505
29690 H2S 29690 H4B	INHIBITOR (SSRIS) ANTICONVULSANTS	UNS AFFECTIVE PSYCHOSIS UNS AFFECTIVE PSYCHOSIS	3.00	0.42	21.30 21.30	0.27 0.27	2	4507 4507	2	13525 13525
29090 П4Б	ANTICONVOLSANTS	ADJUST REAC BRIEF	3.00	0.42	21.30	0.27		4307		13323
3090 P5A	GLUCOCORTICOIDS	DEPRESSIVE	3.00	0.19	47.96	0.44	1	4508	1	13526
3030 I 3A	GEOCOCONTICOIDS	PETIT MAL WO INTRACT	3.00	0.13	47.30	0.44		4300	-	13320
34500 P5A	GLUCOCORTICOIDS	EPILEPSY	3.00	0.19	47.96	0.44	1	4508	1	13526
010001011	CEGGGGGTTTGGIBG	PETIT MAL WO INTRACT	0.00	0.10	17.00	0.11		1000	-	10020
34500 Z2A	ANTIHISTAMINES	EPILEPSY	3.00	0.19	47.96	0.44	1	4508	1	13526
01000 227	SEROTONIN SPECIFIC REUPTAKE		0.00	0.10		0		.000		.0020
34510 H2S	INHIBITOR (SSRIS)	EPILEPSY	3.00	0.19	47.96	0.44	1	4508	1	13526
	,	GRAND MALY WO INTRACT								
34510 P5A	GLUCOCORTICOIDS	EPILEPSY	3.00	0.19	47.96	0.44	1	4508	1	13526
		UNS EPILEPSY WO INTRACT								
34590 R1M	LOOP DIURETICS	EPILEPSY	3.00	0.19	47.96	0.44	1	4508	1	13526
40291 J5D	BETA-ADRENERGIC AGENTS	HYPERTEN HEART DIS W CHF	3.00	0.19	47.96	0.44	1	4508	1	13526
	BETA-ADRENERGIC BLOCKING									
40291 J7C	AGENTS	HYPERTEN HEART DIS W CHF	3.00	0.19	47.96	0.44	1	4508	1	13526
		RENAL HYPERT								
40391 C4G	INSULINS	UNSPEC/FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
40004 1145	ANITICONIVIU CANITO	RENAL HYPERT	0.00	0.15	4- 0-			450-		40=0=
40391 H4B	ANTICONVULSANTS	UNSPEC/FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
4000 174	ALPHA/BETA-ADRENERGIC	CONCECTIVE LIEADT FAILLIDE	0.00	0.07	0.00	0.00	_	4500		10501
4280 J7A	BLOCKING AGENTS	CONGESTIVE HEART FAILURE LEFT HEART FAILURE	3.00	0.97	9.30	0.06	6	4503		13521
4281 A1A 4281 C4G	DIGITALIS GLYCOSIDES INSULINS	LEFT HEART FAILURE	3.00	0.19	47.96 47.96	0.44 0.44	1	4508 4508		13526 13526
4201 040	ORAL	LEFT HEART FAILURE	3.00	0.19	47.90	0.44	- 1	4506	- 1	13320
	ANTICOAGULANTS,COUMARIN									
4281 M9L	TYPE	LEFT HEART FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
4293 J5D	BETA-ADRENERGIC AGENTS	CARDIOMEGALY	3.00	0.13	21.30	0.44	2	4507	2	13525
1200 000	SEDATIVE-HYPNOTICS,NON-	OBSTRUCT CHRON BRONCHITIS	0.00	0.12	21.00	0.21		1007	-	10020
49121 H2E	BARBITURATE	W EXAC	3.00	0.19	47.96	0.44	1	4508	1	13526
TOTETTIEE	BETA-ADRENERGIC BLOCKING	VV E/V (O	0.00	0.10	17.00	0.11	- 1	1000	•	10020
4928 J7C	AGENTS	OTH EMPHYSEMA	3.00	0.19	47.96	0.44	1	4508	1	13526
	BETA-ADRENERGIC BLOCKING	UNS ASTHMA WOSTATUS								
49390 J7C	AGENTS	ASTHMATICUS	3.00	0.97	9.30	0.06	6	4503	6	13521
5716 H3A	ANALGESICS,NARCOTICS	BILIARY CIRRHOSIS	3.00	0.19	47.96	0.44	1	4508	1	13526
5716 P5A	GLUCOCORTICOIDS	BILIARY CIRRHOSIS	3.00	0.19	47.96	0.44	1	4508	1	13526
		OTH CHRONIC NONALCOHOLIC								
5718 H2F	ANTI-ANXIETY DRUGS	LIVER DIS	3.00	0.19	47.96	0.44	1	4508	1	13526
		OTH SEQUELAE CHRONIC LIVER								
5728 H3A	ANALGESICS,NARCOTICS	DISEASE	3.00	0.19	47.96	0.44	1	4508		13526
5733 M4E	LIPOTROPICS	UNS HEPATITIS	3.00	0.19	47.96	0.44	1	4508	1	13526
	NSAIDS, CYCLOOXYGENASE									
5733 S2B	INHIBITOR - TYPE	UNS HEPATITIS	3.00	0.19	47.96	0.44	1	4508	1	13526
	BETA-ADRENERGIC BLOCKING									
5739 J7C	AGENTS	UNS DISORDER LIVER	3.00	0.19	47.96	0.44	1	4508		13526
5739 P5A	GLUCOCORTICOIDS	UNS DISORDER LIVER	3.00	0.19	47.96	0.44	1	4508	1	13526
5739 R1M	LOOP DIURETICS	UNS DISORDER LIVER	3.00	0.19	47.96	0.44	1	4508	1	13526
E940 A4D	HYPOTENSIVES, ACE INHIBITORS	LING ACUTE DENIAL FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
5849 A4D	POTASSIUM SPARING DIURETICS	UNG ACUTE RENAL FAILURE	3.00	0.19	47.90	0.44	- 1	4008	- 1	13320
5849 R1L	IN COMBINATION	UNS ACUTE RENAL FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
JUTO INIL	HYPOGLYCEMICS, BIGUANIDE	ON ACOIL RENAL FAILURE	3.00	0.19	47.90	0.44	- 1	+500	- 1	13320
585 C4L	TYPE (NON-SULFONYLUREAS)	CHRONIC RENAL FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
585 H4B	ANTICONVULSANTS	CHRONIC RENAL FAILURE	3.00	0.19	47.96	0.44	1	4508		13526
585 W1Q	QUINOLONES	CHRONIC RENAL FAILURE	3.00		21.30	0.44	2	4507		13525
		J J J L. J. / MEGINE	5.00	J12	_1.00	0.27	-	.501	-	. 5020
586 A4D	HYPOTENSIVES, ACE INHIBITORS	UNS RENAL FAILURE	3.00	0.19	47.96	0.44	1	4508	1	13526
7802 A1A	DIGITALIS GLYCOSIDES	SYNCOPE/COLLAPSE	3.00		47.96	0.44		4508		13526
7802 C4G	INSULINS	SYNCOPE/COLLAPSE	3.00	0.19	47.96	0.44		4508		13526
	SEDATIVE-HYPNOTICS,NON-								П	
7802 H2E	BARBITURATE	SYNCOPE/COLLAPSE	3.00	0.19	47.96	0.44	1	4508	1	13526
	ANTIPSYCHOTICS,ATYPICAL,DOP									
7802 H7T	AMINE,& SEROTONIN ANTAG	SYNCOPE/COLLAPSE	3.00	0.19	47.96	0.44	1	4508	1	13526
		KIDNEY REPLACED BY								
V420 C4G	INSULINS	TRANSPLANT	3.00	0.19	47.96	0.44		4508		13526
V451 C4G	INSULINS	RENAL DIALYSIS STATUS	3.00	0.19	47.96	0.44	1	4508		13526
V451 H3A	ANALGESICS,NARCOTICS	RENAL DIALYSIS STATUS	3.00	0.19	47.96	0.44	1	4508	1	13526
	NSAIDS, CYCLOOXYGENASE				-				ΙΤ	-
4019 S2B	INHIBITOR - TYPE	UNS HYPERTENSION	2.54	1.83	3.53	0.00		4443		13449
4019 J5D	BETA-ADRENERGIC AGENTS	UNS HYPERTENSION	2.45	1.32	4.58	0.00		4491		13505
311 P5A	GLUCOCORTICOIDS	DEPRESSIVE DISORDER NEC	2.40	0.64	8.94	0.19	4	4505	5	13522
	<u></u>		1 7	Ī			I		ιĪ	
585 A4D	HYPOTENSIVES, ACE INHIBITORS		2.40	0.64	8.94	0.19	4	4505	5	13522

DISEASE DRUG	G DRUG	DISEASE	OR	L OR	U OR	P-VALUE	Α	В	С	D
5715 R1M	LOOP DIURETICS	CIRRHOSIS LIVER WO ALCOHOL	2.25	0.50	10.05	0.29		4506		13523
586 H3A	ANALGESICS,NARCOTICS	UNS RENAL FAILURE	2.25	0.50	10.05	0.29	3	4506	4	13523
	SEROTONIN SPECIFIC REUPTAKE									
7802 H2S	INHIBITOR (SSRIS)	SYNCOPE/COLLAPSE	2.25	0.50	10.05	0.29	3	4506	4	13523
4011 Z4B	LEUKOTRIENE RECEPTOR ANTAGONISTS	BENIGN HYPERTENSION	2.00	0.56	7.09	0.20	,	4505	6	12521
4011 Z4B	SEROTONIN SPECIFIC REUPTAKE	BENIGN HYPERTENSION	2.00	0.56	7.09	0.28	4	4505	6	13521
4280 H2S	INHIBITOR (SSRIS)	CONGESTIVE HEART FAILURE	2.00	0.71	5.62	0.19	6	4503	9	13518
	HYPOTENSIVES, ANGIOTENSIN									
25000 A4F	RECEPTOR ANTAGONIST	DIABETES UNCOMPL TYPE II	1.91	1.10	3.30	0.02	21	4488	33	13494
	HYPOTENSIVES, ANGIOTENSIN									
25001 A4F	RECEPTOR ANTAGONIST	DIABETES UNCOMPL TYPE I	1.91	0.74	4.92	0.18	7	4502	11	13516
25000 J7A	ALPHA/BETA-ADRENERGIC BLOCKING AGENTS	DIABETES UNCOMPL TYPE II	1.80	0.43	7.53	0.42	3	4506	5	13522
25000 J/A	BETA-ADRENERGIC BLOCKING	DIABETES UNCOMP TYPE II	1.00	0.43	7.55	0.42	3	4000	Ü	13322
25002 J7C	AGENTS	UNCONTRD	1.80	0.65	4.95	0.26	6	4503	10	13517
	HYPOGLYCEMICS, INSULIN-									
4280 C4K	RELEASE STIMULANT TYPE	CONGESTIVE HEART FAILURE	1.80	0.65	4.95	0.26	-	4503		13517
585 H3A	ANALGESICS,NARCOTICS	CHRONIC RENAL FAILURE	1.80	0.43	7.53	0.42	3	4506	5	13522
4054 646	DICITAL IS OF ACCOUNTS	OTH PRIMARY	1 71	0.50	F 96	0.20	,	4505	7	12520
4254 A1A	DIGITALIS GLYCOSIDES ORAL	CARDIOMYOPATHIES	1.71	0.50	5.86	0.39	4	4505	7	13520
	ANTICOAGULANTS,COUMARIN									
4280 M9L	TYPE	CONGESTIVE HEART FAILURE	1.69	0.75	3.82	0.21	9	4500	16	13511
4280 J5D	BETA-ADRENERGIC AGENTS	CONGESTIVE HEART FAILURE	1.64	0.61	4.42	0.33		4503		13516
	ALPHA/BETA-ADRENERGIC									
25001 J7A	BLOCKING AGENTS	DIABETES UNCOMPL TYPE I	1.50	0.14	16.54	0.74	1	4508	2	13525
05000 4.5	HYPOTENSIVES, ANGIOTENSIN	DIABETES UNCOMP TYPE II						.=		40504
25002 A4F	RECEPTOR ANTAGONIST HYPOGLYCEMICS, INSULIN-	UNCONTRD	1.50	0.38	6.00	0.57	3	4506	6	13521
25040 C4K	RELEASE STIMULANT TYPE	DIABETES RENAL MANIF TYPE II	1.50	0.14	16.54	0.74	1	4508	2	13525
25040 0410	BETA-ADRENERGIC BLOCKING	DIABETEO NEIVAE MARTI TITE II	1.50	0.14	10.54	0.74		4500		10020
25061 J7C		DIABETES NEURO MANIF TYPE I	1.50	0.14	16.54	0.74	1	4508	2	13525
	LEUKOTRIENE RECEPTOR									
4019 Z4B	ANTAGONISTS	UNS HYPERTENSION	1.50	0.27	8.19	0.64	2	4507	4	13523
40040.000	NSAIDS, CYCLOOXYGENASE	BENIGN HYPERTEN HEART DIS			40 = 4			4500		40505
40210 S2B	INHIBITOR - TYPE	UNSPEC	1.50	0.14	16.54	0.74	1	4508	2	13525
4280 C4N	HYPOGLYCEMICS, INSULIN- RESPONSE ENHANCER (N-S)	CONGESTIVE HEART FAILURE	1.50	0.38	6.00	0.57	3	4506	6	13521
4200 O414	NSAIDS, CYCLOOXYGENASE	OONGEOTIVE TEART TAILORE	1.50	0.50	0.00	0.57	- 0	4500		10021
4280 S2B	INHIBITOR - TYPE	CONGESTIVE HEART FAILURE	1.50	0.45	4.98	0.51	4	4505	8	13519
	LEUKOTRIENE RECEPTOR									
4280 Z4B	ANTAGONISTS	CONGESTIVE HEART FAILURE	1.50	0.14	16.54	0.74	1	4508	2	13525
1000 1100	SEROTONIN SPECIFIC REUPTAKE				40 = 4			.=		40505
4292 H2S	INHIBITOR (SSRIS) BETA-ADRENERGIC BLOCKING	UNS CARDIOVASCULAR DISEASE OBSTRUCT CHRON BRONCHITIS	1.50	0.14	16.54	0.74	1	4508	2	13525
49121 J7C	AGENTS	W EXAC	1.50	0.14	16.54	0.74	1	4508	2	13525
43121 070	CALCIUM CHANNEL BLOCKING	WEXAG	1.50	0.17	10.54	0.14		4000		10020
5733 A9A	AGENTS	UNS HEPATITIS	1.50	0.14	16.54	0.74	1	4508	2	13525
5733 H3A	ANALGESICS,NARCOTICS	UNS HEPATITIS	1.50	0.14	16.54	0.74	1	4508	2	13525
5739 H3A	ANALGESICS,NARCOTICS	UNS DISORDER LIVER	1.50	0.14	16.54	0.74		4508		13525
5849 H3A	ANALGESICS, NARCOTICS	UNS ACUTE RENAL FAILURE	1.50	0.14	16.54	0.74	1	4508	2	13525
585 C4K	HYPOGLYCEMICS, INSULIN- RELEASE STIMULANT TYPE	CHRONIC RENAL FAILURE	1.50	0.14	16.54	0.74	1	4508	2	13525
363 C4K	HYPOGLYCEMICS, INSULIN-	CHRONIC RENAL FAILURE	1.50	0.14	10.54	0.74	- 1	4000		13323
585 C4N	RESPONSE ENHANCER (N-S)	CHRONIC RENAL FAILURE	1.50	0.14	16.54	0.74	1	4508	2	13525
585 R1M	LOOP DIURETICS	CHRONIC RENAL FAILURE	1.50	0.38	6.00	0.57	3	4506		13521
586 C4G	INSULINS	UNS RENAL FAILURE	1.50	0.27	8.19	0.64	2	4507	4	13523
	HYPOGLYCEMICS, INSULIN-									
586 C4K	RELEASE STIMULANT TYPE	UNS RENAL FAILURE	1.50	0.14	16.54	0.74	1	4508	2	13525
V400 IZO	BETA-ADRENERGIC BLOCKING	KIDNEY REPLACED BY	4.50	0.44	40.54	0.74	4	4500	_	40505
V420 J7C 4280 A1A	AGENTS DIGITALIS GLYCOSIDES	TRANSPLANT CONGESTIVE HEART FAILURE	1.50	0.14	16.54 2.69	0.74		4508 4496		13525 13499
4200 ATA	BETA-ADRENERGIC BLOCKING	CONGESTIVE HEART FAILURE	1.55	0.12	2.03	0.52	10	4430	20	10499
25000 J7C	AGENTS	DIABETES UNCOMPL TYPE II	1.38	0.91	2.08	0.13	33	4476	72	13455
585 C4G	INSULINS	CHRONIC RENAL FAILURE	1.25	0.44	3.55	0.68	5	4504		13515
	TRICYCLIC ANTIDEPRESSANTS &									
4280 H2U	REL. NON-SEL. RU-INHIB	CONGESTIVE HEART FAILURE	1.20	0.23	6.19	0.83		4507		13522
7802 A7B	VASODILATORS,CORONARY	SYNCOPE/COLLAPSE	1.20	0.23	6.19	0.83	2	4507	5	13522
585 I7C	BETA-ADRENERGIC BLOCKING	CHRONIC DENAL FAILURE	1.13	0.30	4.24	0.86	3	4506	۰	13510
585 J7C	AGENTS SEDATIVE-HYPNOTICS,NON-	CHRONIC RENAL FAILURE	1.13	0.30	4.24	0.86	3	4006	8	13519
07051 H2E	BARBITURATE	AC/UNS HEPATITIS C WOCOMA	1.00	0.10	9.61	1.00	1	4508	3	13524
07051 H3A		AC/UNS HEPATITIS C WOCOMA	1.00	0.10	9.61	1.00		4508		13524
-	HYPOGLYCEMICS, BIGUANIDE									
25040 C4L	TYPE (NON-SULFONYLUREAS)	DIABETES RENAL MANIF TYPE II	1.00	0.10	9.61	1.00		4508		13524
25041 C4G		DIABETES RENAL MANIF TYPE I	1.00	0.10	9.61	1.00	1	4508	3	13524
	BETA-ADRENERGIC BLOCKING	OTH PRIMARY								
4254 J7C	AGENTS	CARDIOMYOPATHIES	1.00	0.20	4.95	1.00	2	4507	6	13521

DISEASE_DRUG	DRUG	DISEASE	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
4289 A1A	DIGITALIS GLYCOSIDES	UNS HEART FAILURE	1.00	0.10	9.61	1.00	1	4508	3	13524
	ANALGESIC/ANTIPYRETICS,	UNS ASTHMA WOSTATUS								
49390 H3D	SALICYLATES	ASTHMATICUS	1.00	0.10	9.61	1.00	1	4508	3	13524
	BETA-ADRENERGIC BLOCKING	CHRONIC AIRWAY OBSTRUCTION								
496 J7C	AGENTS	NEC	1.00	0.43	2.35	1.00	7	4502	21	13506
586 R1M	LOOP DIURETICS	UNS RENAL FAILURE	1.00	0.10	9.61	1.00	1	4508	3	13524
	BETA-ADRENERGIC BLOCKING									
7802 J7C	AGENTS	SYNCOPE/COLLAPSE	1.00	0.27	3.69	1.00	3	4506	9	13518
	HYPOGLYCEMICS, BIGUANIDE									
4280 C4L	TYPE (NON-SULFONYLUREAS)	CONGESTIVE HEART FAILURE	0.90	0.25	3.27	0.87	3	4506	10	13517
	SEDATIVE-HYPNOTICS,NON-	CHRONIC AIRWAY OBSTRUCTION								
496 H2E	BARBITURATE	NEC	0.86	0.18	4.13	0.85	2	4507	7	13520
4280 C4G	INSULINS	CONGESTIVE HEART FAILURE	0.82	0.23	2.93	0.76	3	4506	11	13516
	NSAIDS, CYCLOOXYGENASE									
2765 S2B	INHIBITOR - TYPE	VOLUME DEPLETION DISORDER	0.75	0.08	6.71	0.80	1	4508	4	13523
	HYPOGLYCEMICS, INSULIN-	OTH PRIMARY								
4254 C4K	RELEASE STIMULANT TYPE	CARDIOMYOPATHIES	0.75	0.08	6.71	0.80	1	4508	4	13523
	PLATELET AGGREGATION									
4280 M9P	INHIBITORS	CONGESTIVE HEART FAILURE	0.75	0.16	3.53	0.72	2	4507	8	13519
5715 R1H	POTASSIUM SPARING DIURETICS	CIRRHOSIS LIVER WO ALCOHOL	0.75	0.08	6.71	0.80	1	4508	4	13523
	BETA-ADRENERGIC BLOCKING									
4280 J7C	AGENTS	CONGESTIVE HEART FAILURE	0.43	0.10	1.89	0.26	2	4507	14	13513

	Α	В	С	D	Е	F	G	Н		J	K
1	DISEASE_DRUG	DRUG	DISEASE	OR	L_OR	U_OR	P-VALUE	Α	В	С	D
2	30000 P5A	GLUCOCORTICOIDS	ANXIETY STATE UNSPEC	15.00	1.75	128.40	0.01	5	4504	1	13526
3	07054 H3A	ANALGESICS, NARCOTICS	CHR HEPATITIS C WOCOMA	12.00	1.34	107.37	0.03	4	4505	1	13526
4	4019 H2V	ANTI-NARCOLEPSY/ANTI- HYPERKINESIS, STIMULANT-TYPE	UNS HYPERTENSION	12.00	1.34	107.37	0.03	4	4505	1	13526
		ALPHA/BETA-ADRENERGIC	OTH PRIMARY								
5	4254 J7A	BLOCKING AGENTS	CARDIOMYOPATHIES	7.50	1.46	38.66	0.02	5	4504	2	13525
		CALCIUM CHANNEL BLOCKING									
6	7802 A9A	AGENTS	SYNCOPE/COLLAPSE	7.00	1.81	27.07	0.00	7	4502	3	13524
7	7802 A4D	HYPOTENSIVES, ACE INHIBITORS	SYNCOPE/COLLAPSE	6.75	2.08	21.92	0.00	9	4500	4	13523
		ORAL									1
			OTH PRIMARY								1
8	4254 M9L	TYPE	CARDIOMYOPATHIES	6.00	1.10	32.76	0.04	4	4505	2	13525
9	25000 A4B	HYPOTENSIVES.SYMPATHOLYTIC	DIABETES LINCOMPL TYPE II	4.50	1.60	12.64	0.00	9	4500	6	13521
9		BETA-ADRENERGIC BLOCKING	DIABLIES UNCOMPLITELII	4.50	1.00	12.04	0.00	9	4300	0	13321
10	25001 J7C		DIABETES UNCOMPL TYPE I	3.67	1.52	8.85	0.00	11	4498	9	13518
11	4011 J5D	BETA-ADRENERGIC AGENTS	BENIGN HYPERTENSION	3.20	1.58	6.47	0.00	16	4493	15	13512
		NSAIDS, CYCLOOXYGENASE									
12	4011 S2B	INHIBITOR - TYPE	BENIGN HYPERTENSION	3.16	2.03	4.92	0.00	40	4469	38	13489
		NSAIDS, CYCLOOXYGENASE									
		INHIBITOR - TYPE	UNS HYPERTENSION	2.54		3.53	0.00	66	4443	78	
14	4019 J5D	BETA-ADRENERGIC AGENTS	UNS HYPERTENSION	2.45	1.32	4.58	0.00	18	4491	22	13505
45	05000 4.45	HYPOTENSIVES, ANGIOTENSIN	DIADETEC LINCOMPL TYPE II	4.04	4.40	0.00	0.00	0.4	4.400		40404
15	25000 A4F	RECEPTOR ANTAGONIST	DIABETES UNCOMPL TYPE II	1.91	1.10	3.30	0.02	21	4488	33	13494

Pationt ID:	5702AAAAAAACBMGK.	Voor of Right	1035 Condon	Fomalo	Trigger Date:	09/90/9001
Patrent ID:	3/UZAAAAAAACDINGN.	rear or birth:	1955. Gender:	гешаге.	irigger pate:	02/20/2001

				, 00		
Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
01/06/2001		25000	DIABETES UNCOMPL TYPE II			
01/06/2001		27800	OBESITY UNSPEC			
01/06/2001		4019	UNS HYPERTENSION			
01/06/2001			AMI UNS SITE UNS EOC			
01/06/2001		4111	INTERMEDIATE CORONARY SYNDROME			
01/06/2001		78650	UNSPEC CHEST PAIN			
01/06/2001		78651	PRECORDI AL PAI N			
01/06/2001 $01/22/2001$		78701 00378020801	NAUSEA W VOMITING		FUROSEMI DE	
01/22/2001		59762372704			GLYBURI DE	
01/22/2001		00005321943			ATENOLOL	
01/29/2001					DI AZEPAM	
01/29/2001					DOXEPIN HCL	
01/30/2001			DIABETES UNCOMPL TYPE II		Donas III nea	
01/30/2001	DI AG	78050	UNS SLEEP DI STURBANCE			
02/01/2001	DRUG	00087607005			METFORMIN HCL	
02/03/2001		00069306075			AZI THROMYCI N	
02/03/2001		00258365401			BENZONATATE	
02/06/2001		00002314460			NI ZATI DI NE	
02/08/2001		4660	ACUTE BRONCHITIS			
02/08/2001		99213		OFFI CE/OUTPATIENT VISIT, EST	CL PROFILOWACEN W	O.T.
		00026851251			CI PROFLOXACI N H	
		61570007201			ESTROGENS, ESTER	I FI ED
02/17/2001 $02/19/2001$					LORATADI NE ESTROGENS, ESTER	IEIEN
02/19/2001	DRUG	01370007201			ESTRUGENS, ESTER	1 1 1 20
GG VO FEMA	IE WIT	TI A HV OF DM	III, SLEEP DISTURBANCE, CHEST PAIN,	UVDEDTENCION IC TAVINO		
			DE, ATENOLOL, DIAZEPAM, DOXEPIN, MET			
			FFECT BLOOD SUGAR CONTROL. THE DIAZE			
			ERACT TO INCREASE DROWSINESS. THE M			
			EMIA. THE ATENOLOL MAY MASK THE SIGN			
			AS BEEN ASSOCIATED WITH SYNCOPE AND			
			- ACTING BENZODI AZEPINE AND MAY PRODU			
AND INCREA	SE THE	RISK OF FAL	LS.			
02/20/2001	DI AG	E8199	MVA UNS INJURING UNS PERSON			

 02/20/2001
 DIAG
 E8199
 MVA UNS INJURING UNS PERSON

 02/20/2001
 DIAG
 7231
 CERVICALCIA

 02/20/2001
 DIAG
 8470
 SPRAIN/STRAIN OF NECK

 02/20/2001
 DRUG
 00406035705

 02/20/2001
 DRUG
 52544080601

HYDROCODONE BIT/ACETAMI NOPHEN METHOCARBAMOL

Patient ID: 5401AAAAAABIYSO, Year of Birth: 1922, Gender: Male, Trigger Date: 11/11/1999

Date	Type Code	Di agnosi s	Procedure	Rx	Days of
Suppl y					

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09/24/1999 DI AG 09/24/1999 DI AG	4280 78057	CONGESTIVE HEART FAILURE OTH/UNS SLEEP APNEA		
09/28/1999 DI AG 09/29/1999 DRUG 10/04/1999 DRUG 10/05/1999 DRUG	25000 00007414020 00039022310 00172423480	DIABETES UNCOMPL TYPE II		CARVEDI LOL GLI MEPI RI DE BUMETANI DE
10/07/1999 DI AG 10/07/1999 CPT4	V048 90659	VACCINE FOR INFLUENZA	FLU VACCINE, WHOLE, IM	
10/08/1999 DRUG 10/08/1999 DRUG	00029315920 00085078701	INC. INDEPENDION		ROSI GLI TAZONE MALEATE POTASSI UM CHLORI DE
10/08/1999 DIAG 10/08/1999 DIAG 10/08/1999 CPT4	4019 5939 99213	UNS HYPERTENSION UNS DISORDER KIDNEY/URETER	OFFICE/OUTPATIENT VISIT. EST	
10/09/1999 DRUG 10/09/1999 DRUG	00006001958 00781205101		office, doff affect violi, Est	LI SI NOPRI L TERAZOSI N HCL
10/15/1999 DI AG 10/15/1999 DI AG	4280 5939	CONGESTI VE HEART FAI LURE UNS DI SORDER KI DNEY/URETER		T
10/18/1999 DRUG 10/18/1999 DRUG	00078023405 00186045258			FLUVASTATI N SODI UM FELODI PI NE

77 YO MALE PATIENT WITH A HISTORY OF CONGESTIVE HEART FAILURE, HYPERTENSION, AND DM TYPE II IS TREATED WITH CARVEDILOL, BUMETANIDE, LISINOPRIL FOR CONGESTIVE HEART FAILURE AND HYPERTENSION. GLIMEPIRIDE AND ROSIGLITAZONE FOR DM FLUVASTATIN FOR HYPERLIPIDEMIA. TERAZOSIN FOR PROSTATIC HYPERTROPHY. FELODIPINE FOR HYPERTENSION. POTASSIUM FOR ELECTROLYTE DEPLETION CAUSED BY THE BUMETANIDE. THE CARVEDILOL MAY POTENTIATE HYPOGLYCEMIA AND MASK ITS SIGNS, IT ALSO CAUSES DIZZINESS. LISINOPRIL MAY CAUSE HYPOTENSION AND DIZZINESS. BUMETANIDE AFFECTS GLUCOSE CONTROL AND CAUSES DIZZINESS. THE HYPOGLYCEMIC DRUGS MAY CAUSE HYPOGLYCEMIA, ESPECIALLY IN COMBINATION WITH CARVEDILOL. ROSIGLITAZONE MAY WORSEN CHF. TERAZOSIN CAN CAUSE DIZZINESS AND HEADACHE AND POSTURAL HYPOTENSION. FELODIPINE SHOULD BE USED WITH CAUTION IN PATIENTS WITH CHF.

11/11/1999 DIA	AG E8120	MVA COLLISION UNSP DRIVER
11/11/1999 DIA	AG E8199	MVA UNS INJURING UNS PERSON
11/11/1999 DI	AG 4019	UNS HYPERTENSION
11/11/1999 DI	AG 4280	CONGESTIVE HEART FAILURE
11/11/1999 DI	AG 5939	UNS DISORDER KIDNEY/URETER
11/11/1999 DI	AG 7840	HEADACHE
11/11/1999 DI	AG 81200	FRACTURE UP END HUMERUS UNSP CLOS
11/11/1999 DI	AG 81220	FRACTURE HUMERUS UNSP CLOSED
11/11/1999 DI	AG 8180	FRACTURE ARM MULT/UNSP CLOSED

11/11/1999 DIAG	87320	OPEN WOUND OF UNSPECE UNSPEC
11/11/1999 DIAG	87342	OPEN WOUND OF FOREHEAD
11/11/1999 DIAG	8738	OPEN WOUND OF HEAD OT
11/11/1999 DIAG	95901	UNS HEAD INJURY
11/11/1999 DIAG	9591	OTH/UNS INJURY TRUNK

Patient ID: d510AAAAAAGHBJQL, Year of Birth: 1917, Gender: Female, Trigger Date: 09/13/2000

Date	Type	Code	Di agnosi s	Procedure	Rx	Days of Supply	
05/09/20 05/26/20 05/26/20 06/05/20 06/05/20	000 DIAG 000 DIAG 000 DIAG	25000 25000 1101	DIZZINESS/GIDDINESS DIABETES UNCOMPL TYPE II DIABETES UNCOMPL TYPE II DERMATOPHYTOSIS NAIL	DEBRIDE NAIL, 6 OR MORE			0 0 0 0 0
07/06/200 07/06/200 07/06/200 07/06/200 08/01/200	OO DRUG OO DRUG OO DRUG	00049156066 00087606005 00378265010 55953054435 53081				GLI PI ZI DE 30 METFORMI N HCL 30 AMI TRI PTYLI NE HCL 30 RANI TI DI NE HCL 90	
08/07/200 08/07/200 08/21/200 08/21/200 08/22/200	00 DI AG 00 CPT4 00 DI AG 00 CPT4	36616 92014 68111 10060 78650	NUCLEAR SCLEROSIS ONYCHIA/PARONYCHIA TOE UNSPEC CHEST PAIN	EYE EXAM & TREATMENT DRAINAGE OF SKIN ABSCESS			
08/28/200 08/28/200 08/28/200	OO DRUG	00049156066 00087606005 00378265010				GLI PI ZI DE 30 METFORMI N HCL AMI TRI PTYLI NE HCL	

83 YO FEMALE WITH DM II, EOSPHAGEAL REFLUX, AND HAS HAD BOUTS OF DIZZINESS/GIDDINESS AND CHEST PAIN, IS RECEIVING GLIPIZIDE, METFORMIN, AND AMITRIPTYLINE. AMITRIPTYLINE AFFECTS GLUCOSE CONTROL AND ALSO CAUSES DROWSINESS. RANITIDINE AND AMITRIPTYLINE SHOULD BE USED WITH CAUTION IN ELDERLY PTS BECAUSE OF INCREASED CNS REACTIONS. THE GLIPIZIDE AND METFORMIN MAY CAUSE EXCESSIVE HYPOGLYCEMIA.

09/13/2000 DIAG	E8120	MVA COLLISION UNSP DRIVER	
09/13/2000 CPT4	99283		EMERGENCY DEPT VISIT
09/13/2000 DIAG	25000	DIABETES UNCOMPL TYPE II	
09/13/2000 DIAG	78650	UNSPEC CHEST PAIN	
09/13/2000 DIAG	92411	CONTUSION OF KNEE	
09/13/2000 DIAG	9248	CONTUSION OF MULTIPLE SITES NEC	

Patient ID: e810AAAAAAAKECPD.	Year of Birth:	1931. Gender:	Female.	Trigger Da	ate: 09/04/1999

Date	Туре	Code	Di agnosi s	Procedure	Rx	Days Sup	pl y
07/16/1999 07/16/1999 07/16/1999 07/16/1999 07/16/1999 07/16/1999 07/16/1999 07/16/1999 07/16/1999 08/31/1999 08/31/1999	DRUG DRUG DRUG DRUG DRUG DI AG	00049156066 00087607005 00378262510 59762738002 25001 2810 3579 71690 7291			I NSULIN ZI NC EXTEND GLI PIZI DE METFORMI N HCL AMITRI PTYLI NE HCL I BUPROFEN	HUMAN REC	30 30 30 30 30 30

68 YO FEMALE WITH A HX OF DM II, PNEUMONIA, ARTHROPATHY, MYALGIA, NEUROPATHY IS BEING TREATED WITH IBUPROFEN FOR PAINFUL CONDITIONS. GLIPIZIDE, METFORMIN, INSULIN IS BEING USED FOR THE DM II. THESE HYPOGLYCEMIC DRUGS MAY CAUSE EXCESSIVE HYPOGLYCEMIA. THE AMITRIPTYLINE AFFECTS BLOOD SUGAR LEVEL CONTROL AND CAUSES DROWSINESS.

09/04/1999	DI AG	E8129	MVA COLLIS UNSP PERS UNSPEC
09/04/1999	DRUG	52544034905	
09/04/1999	DI AG	8409	SPRAIN/STRAIN SHOULDER/ARM UNSPEC
09/04/1999	DI AG	8470	SPRAIN/STRAIN OF NECK
09/04/1999	DI AG	95909	I NJURY FACE/NECK
09/04/1999	DI AG	9592	OTH/UNS INJURY SHOULDER/UPPER ARM

HYDROCODONE BIT/ACETAMINOPHEN 2

Patient ID: e810AAAAAACGLKBK, Year of Birth: 1927, Gender: Male, Trigger Date: 08/19/2000

Date	Type Code	Di agnosi s	Procedure	Rx	Days Supply
06/14/200 06/19/200 06/19/200	00 DIAG 3659	DIABETES UNCOMPL TYPE II UNS GLAUCOMAS NUCLEAR SCLEROSIS			

06/26/2000 DRUG	50111036603			AMI TRI PTYLI NE HCL	30
06/30/2000 DI AG	3659	UNS GLAUCOMAS			
06/30/2000 DI AG	3659	UNS GLAUCOMAS			
06/30/2000 CPT4	92083		VI SUAL FIELD EXAMINATION(S)		
06/30/2000 CPT4	99212		OFFI CE/OUTPATI ENT VI SI T, EST		
07/11/2000 DIAG	25000	DIABETES UNCOMPL TYPE II			
007/11/2000 DIAG	7038	OTHER DISEASES NAIL			
08/11/2000 DRUG	00078017605			FLUVASTATIN SODIUM	30
08/11/2000 DRUG	55953034480			GLYBURI DE	30

73 YO MALE WITH DM II AND GLAUCOMA IS TREATED FOR THE DM WITH GLYBURIDE AND IS ALSO RECEIVING AMITRIPTYLINE WHICH AFFECTS BLOOD SUGAR LEVELS, WORSENS GLAUCOMA, AND CAUSES DROWSINESS. GLYBURIDE AND AMITRIPTYLINE SHOULD BE USED WITH CAUTION IN ELDERLY PTS.

08/19/2000 DIA	G E8130	MVA OT VEH COLLISION DRIVER
08/19/2000 DIA	G 7242	LUMBAGO
08/19/2000 DIA	G 7245	UNS BACKACHE
08/19/2000 DIA	G 8479	SPRAIN/STRAIN OF BACK UNSPEC

Patient ID: h702AAAAAAHCBCG, Year of Birth: 1921, Gender: Male, Trigger Date: 04/17/1999

Date	Туре	Code	Di agnosi s	Procedure	Rx	Days Supply
02/10/1999 I 02/10/1999 I 02/12/1999 I 02/17/1999 I 02/17/1999 I 02/17/1999 I 02/24/1999 I 03/05/1999 I 03/05/1999 I 03/05/1999 I 03/05/1999 I 03/15/1999 I 03/15/1999 I 03/15/1999 I 03/16/1999 I 03/22/1999 I 03/22/1999 I	DI AG DRUG DRUG DRUG DRUG DRUG DRUG DRUG DRU	25000 3569 38245043310 00597005801 55953054470 50924055350 00364250801 00028271311 00006007231 00088179730 00093074101 38245043310 00228205210 08881602018 55953054470 00597005801 41401 V4581 99213	DI ABETES UNCOMPL TYPE II UNS I DI OPATHI C PERI PH NEUROPATHY ATHEROSCLER NATI VE CORONARY ART AORTOCORONARY BYPASS STATUS	OFFICE/OUTPATIENT VISIT, EST	GLYBURI DE TAMSULOSIN HCL RANITI DI NE HCL BLOOD SUGAR DI AGNOS NORTRI PTYLI NE HCL I SOSORBI DE MONONI TR FI NASTERI DE DI LTI AZEM HCL PROPOXYPHENE HCL GLYBURI DE DI AZEPAM LANCETS RANI TI DI NE HCL TAMSULOSIN HCL	30
03/24/1999 I 03/30/1999 I 04/05/1999 I	DRUG DRUG	00364250801 50924055350 00006007231		OFFICE/OUTFAITENT VISIT, EST	NORTRI PTYLI NE HCL BLOOD SUGAR DI AGNOS FI NASTERI DE	30 TTI C 25 30

04/05/1999 DRUG	00088179730	DI LTI AZEM HCL	30
04/05/1999 DRUG	00378013001	PROPOXYPHENE HCL/ACETAMI NOPHEN	30
04/12/1999 DRUG	38245043310	GLYBURI DE	30
04/12/1999 DRUG	55953054470	RANITI DI NE HCL	30

78 YO OLD MALE WITH A HISTORY OF CORONARY ATHEROSCLEROSIS, AORTOCORONARY BYPASS, DIABETES TYPE II, PERIPHERAL NEUROPATHY, AND HEARING LOSS WAS BEING TREATED WITH NORTRIPTYLINE AND PROPOXYPHENE (BOTH WITH CNS EFFECTS). PROPOXYPHENE AND NORTRIPTYLINE SHOULD NOT BE USED IN ELDERLY PATIENTS. THE PATIENT IS ALSO RECEIVING GLYBURIDE WHICH LOWERS BLOOD SUGAR AND MAY CAUSE HYPOGLYCEMIA, ESPECIALLY IN THE ELDERLY. RANITIDINE AND DILTIAZEM INTERACT TO INCREASE THE HYPOTENSIVE EFFECTS OF DILTIAZEM

04/17/1999 DIAG	E8120	MVA COLLISION UNSP DRIVER
04/17/1999 DIAG	E8495	PLACE OCCURRENCE STREET/HIGHWAY
04/17/1999 DIAG	E8495	PLACE OCCURRENCE STREET/HIGHWAY
04/17/1999 DIAG	71941	PAIN IN JOINT SHOULDER
04/17/1999 DIAG	7231	CERVI CALGI A
04/17/1999 DIAG	7248	OTH SYMPTOMS REFERABLE TO BACK
04/17/1999 DIAG	8470	SPRAIN/STRAIN OF NECK

Patient ID: h702AAAAAAAXKKJG, Year of Birth: 1932, Gender: Female, Trigger Date: 09/21/1998

Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
07/23/1998 07/23/1998 07/23/1998 07/23/1998	B DRUG B DI AG	00087607005 00781148801 4732 4779			METFORMIN HCL AMITRIPTYLINE HCL	30 30
08/13/1998 08/13/1998 08/14/1998 08/14/1998 08/14/1998 08/19/1998 08/19/1998 08/24/1998	B DRUG	00087081941 00087607005 00006011754 00049156066 00085061402 00049156066 00781148801 49502069703 00536403644			BUSPI RONE HCL METFORM N HCL MONTELUKAST SODI UM GLI PI ZI DE ALBUTEROL GLI PI ZI DE AMI TRI PTYLI NE HCL ALBUTEROL SULFATE METHYLPREDNI SOLONE	30 30 30 30 2 30 30 30 30
09/03/1998 09/10/1998 09/11/1998 09/11/1998 09/16/1998 09/16/1998	B DRUG B DRUG B DRUG B DRUG B DRUG	4720 00085061402 00075006037 49502069703 00049156066 00087607005 00536432510			ALBUTEROL TRI AMCI NOLONE ACETON ALBUTEROL SULFATE GLI PI ZI DE METFORMI N HCL PREDNI SONE	20 30 30 30 30 30

66 YO FEMALE WITH A HX OF DM II, SINUSITIS AND RHINITIS IS BEING TREATED WITH GLIPIZIDE, METFORMIN AND IS ALSO TAKING AMITRIPTYLINE, ALBUTEROL, THEOPHYLLINE, PREDNISONE, AND MONTELUKAST. THE AMITRIPTYLINE, ALBUTEROL, AND STEROIDS AFFECT BLOOD SUGAR CONTROL. THE ALBUTEROL AND THEOPHYLLINE CAUSE JITTERINESS AND NERVOUSNESS. THE AMITRIPTYLINE CAUSES DROWSINESS.

09/21/1998 DIAG	E8190	MVA UNS INJURING MVA DRIVER	
09/21/1998 DIAG	71941	PAIN IN JOINT SHOULDER	
09/21/1998 DIAG	8409	SPRAIN/STRAIN SHOULDER/ARM UNSPEC	
09/21/1998 CPT4	450		
09/21/1998 CPT4	73030		X-RAY EXAM OF SHOULDER
09/21/1998 CPT4	99283		EMERGENCY DEPT VISIT

Patient ID: d510AAAAAGNKJOQ, Year of Birth: 1922, Gender: Male, Trigger Date: 07/16/1998

Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
05/13/1998 05/13/1998 05/19/1998 05/20/1998 05/27/1998	8 DRUG 8 DRUG 8 DRUG	59762371704 00378045705 00029321120			ERYTHROMYCIN BASE TRI AZOLAM LORAZEPAM PAROXETI NE HCL WARFARI N SODI UM	10 60 30 90 30
06/02/1998 06/09/1998 06/15/1998 06/23/1998	8 DI AG 8 DRUG 8 DRUG 8 DI AG	42731 00065024615 00378045705 41401	ATRIAL FIBRILLATION		BETAXOLOL HCL LORAZEPAM	0 30 30 0
06/23/1998 06/23/1998	8 DI AG	42731	ATRIAL FIBRILLATION			0
06/24/1998 06/24/1998 06/24/1998 07/15/1998	8 DI AG 8 DI AG 8 DI AG	250 V709	UNS GENERAL MEDICAL EXAMINATION ATRIAL FLUTTER	PROTHROMBIN TIME	WARFARIN SODIUM	90 0 0 0 0

77YO MALE WITH A HX OF CORONARY ATHEROSCLEROSIS AND ATRIAL FIBRILLATION/FLUTTER WAS BEING TREATED WITH THREE CNS AFFECTING DRUGS (TRIAZOLAM, LORAZEPAM, AND PAROXETINE) ALL OF WHICH ARE SEDATING. THE HEART RHYTHM DISORDER MAY ALSO BE DRIVER IMPAIRING. THE BETAXOLOL IS A BETA BLOCKER WHICH CAN CAUSE DIZZINESS.

0

	v	
		0
07/16/1998 CPT4 99284	EMERGENCY DEPT VISIT	0
07/19/1009 DDIC 00791140405	<u> </u>	

07/716/11.9989.0 IPACAG 9228120 CONTUSTON 1991 GHESTS IN ALL VER

Patient ID: d510AAAAAAGOXTVS, Year of Birth: 1931, Gender: Female, Trigger Date: 04/08/1998

Date Supply	Туре	Code	Di agnosi s	Procedure	Rx	Days of
02/12/199 02/17/199 02/24/1998 02/24/1998	8 DI AG B DRUG				FLUOROMETHOLONE	28
03/02/1998 03/02/1998 03/02/1998	DRUG DRUG	00049490066 00087081841 51875034501			SERTRALI NE HCL BUSPI RONE HCL HYDROXYZI NE HCL	60 30 12
03/02/1998 03/02/1998 03/06/1998 03/28/1998	DI AG DI AG	6929 7089 6160 00046087502	CONTACT DERMATITIS UNS CAUSE UNSPEC URTICARIA CERVICITIS/ENDOCERVICITIS			0 0 0 28
03/28/1998		59762371804			TRI AZOLAM	30

 $67\ YO\ FEMALE$ WITH DEPRESSION AND VISUAL PROBLEMS WAS TREATED WITH FOUR CNS AFFECTING MEDICATIONS – SERTRALINE, BUSPIRONE, HYDROXYZINE, AND TRIAZOLAM

04/08/1998 DIAG E8	MVA UNS INJURING UNS PERSON	0
04/08/1998 CPT4 720	070	X-RAY EXAM OF THORACIC SPINE
04/08/1998 CPT4 72:	100	X-RAY EXAM OF LOWER SPINE
04/08/1998 CPT4 73	560	X-RAY EXAM OF KNEE, 1 OR 2

04/08/1998 CPT4 04/08/1998 CPT4	73620 99283		X-RAY EXAM OF FOOT EMERGENCY DEPT VISIT	$0 \\ 0$
04/08/1998 CPT4	99283		EMERGENCY DEPT VISIT	
04/08/1998 DIAG	71945	PAIN IN JOINT PELVIS/THIGH		0
04/08/1998 DIAG	71946	PAIN IN JOINT LOWER LEG		0
04/08/1998 DIAG	71947	PAIN IN JOINT ANKLE/FOOT		0
04/08/1998 DIAG	7242	LUMBAGO		0
04/08/1998 DIAG	9599	INJURY UNS SITE		0

Patient ID: e810AAAAABAOSFG, Year of Birth: 1928, Gender: Female, Trigger Date: 03/08/2001

Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
						-
	001 DI AG		UNS ACUTE SINUSITIS			
01/09/20	001 DIAG	7840 00603388128	HEADACHE		HYDROCODONE BLT/ACETAMI NOPHEN	15
	OO1 DRUG				LORAZEPAM	15
	001 DRUG				CLINDAMYCIN HCL	7
	001 DRUG				HYDROCODONE BIT/ACETAMI NOPHEN	5
	OO1 DRUG				CI TALOPRAM HYDROBROMI DE	30
	001 DRUG				LORAZEPAM	12
	001 DRUG				AMI TRI PTYLI NE HCL	20
02/13/20	OOL DIAG	29633 3039	MAJ DEPRESS DIS RECUR EPI SEV			
	001 DI AG		UNS BACKACHE			
	001 DI AG		OSTEOPOROSIS UNSPEC			
	OO1 DRUG				AZI THROMYCI N	5
	OO1 DRUG				LORAZEPAM	12
03/04/20	OO1 DRUG	00456404001			CI TALOPRAM HYDROBROMI DE	30

73 YO FEMALE WITH A HX OF MAJOR DEPRESSION, BACKACHE, OSTEOPOROSIS, HEADACHE, SINUSITIS, IS TREATED WITH FOUR CNS AFFECTING MEDICATIONS -HYDROCODONE, LORAZEPAM, CITALOPRAM, AND AMITRIPTYLINE. LORAZEPAM, HYDROCODONE, AND AMITRIPTYLINE SHOULD BE USED WITH CAUTION IN OLDER PATIENTS BECAUSE THEY CAN CAUSE SOMNOLENCE AND DIZZINESS.

03/08/2001 DIAG	E8130	MVA OT VEH	COLLISION	DRI VER	
03/08/2001 DIAG	E8130	MVA OT VEH	COLLI SI ON	DRI VER	
03/08/2001 CPT4	324				
03/08/2001 CPT4	450				
03/08/2001 CPT4	71020				CHEST X-RAY
03/08/2001 CPT4	99283				EMERGENCY DEPT VISIT
03/08/2001 DIAG	7840	HEADACHE			

03/08/2001 DRUG 00603388128 HYDROCODONE BIT/ACETAMINOPHEN 1	
03/08/2001 DIAG 78650 UNSPEC CHEST PAIN	
03/08/2001 DIAG 78652 PAINFUL RESPIRATION	
03/08/2001 DIAG 9221 CONTUSION OF CHEST WALL	
03/08/2001 DIAG 9591 OTH/UNS INJURY TRUNK	

Patient ID: 5401AAAAAAVJRBF, Year of Birth: 1921, Gender: Female, Trigger Date: 05/24/1999

Date	Type Code	Di agnosi s	Procedure	Rx	Days of
Suppl y	• •				· ·

03/23/1999 DRUG 0	00603107558			GUAI FENESI N/CODEI NE PHOS
03/30/1999 CPT4 8	34702		CHORIONIC GONADOTROPIN TEST	
03/31/1999 DRUG 0	00603242621			BENZONATATE
03/31/1999 DRUG 4	19884056905			AMOXI CI LLI N TRI HYDRATE
		UNS ACUTE SINUSITIS		
		BRONCHI TI SACUTE/CHRONI C		
	00182127405			ACETAMI NOPHEN/CAFFEI NE/BUTALB
		OTH SEBORRHEIC KERATOSIS		
		OTHER DYSCHROMIA		
	00597008130			I PRATROPI UM BROMI DE
	19884056905			AMOXI CI LLI N TRI HYDRATE
		UNS ACUTE SINUSITIS		T THE THE CONTROL OF THE CONTROL
	00048105005	A TOWNS AND		LEVOTHYROXI NE SODI UM
05/22/1999 DIAG 4	12742	VENTRI CULAR FLUTTER		

78 YO FEMALE WITH VENTRICULAR FLUTTER AND ACUTE BRONCHITIS/SINUSITIS IS BEING TREATED WITH AMOXICILLIN AND BENZONATATE AND GUIFENESIN WITH CODEINE FOR COUGH AND ACETAMINOPHEN WITH CAFFEINE AND BUTALBITAL FOR PAIN. THE TWO MEDICINES FOR COUGH AND THE PAIN MEDICINE CAN CAUSE SEDATION, DIZZINESS, AND MENTAL CONFUSION. IPRATROPIUM IS USED FOR BRONCHITIS BUT IT CAN CAUSE PALPITATIONS, NERVOUSNES, AND DIZZINESS. LEVOTHYROXINE, PARTICULARLY IN THE ELDERLY, CAN CAUSE TACHYCARDIA, ARRHYTHMIAS.

05/24/1999 DIAG E8190 MVA UNS INJURING MVA DRIVER

Patient ID: 4001AAAAAAIGEW, Year of Birth: 1920, Gender: Female, Trigger Date: 09/03/1999

Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
06/28/199 06/28/199		00378003210 38245022520			METOPROLOL TARTRATE POTASSI UM CHLORI DE	
06/29/199 06/29/199		42731 V5861	ATRI AL FI BRI LLATI ON ENCOUNTER LONG TERM ANTI COAGULANT			
06/29/199		85610		PROTHROMBIN TIME		
07/13/199 07/13/199		$00228222296 \\ 00310013034$			HYDROCHLOROTHI AZI DE LI SI NOPRI L	
07/24/199		42731	ATRIAL FIBRILLATION			
07/24/199 07/24/199		4280 V5861	CONGESTI VE HEART FAILURE ENCOUNTER LONG TERM ANTI COAGULANT			
07/24/199		80054				
07/24/199		85610		PROTHROMBIN TIME		
08/13/199 08/13/199		00173024975 00555087402			DI GOXI N WARFARI N SODI UM	
08/31/199		42731	ATRIAL FIBRILLATION			
08/31/199 08/31/199		V5861 85610	ENCOUNTER LONG TERM ANTI COAGULANT	PROTHROMBIN TIME		
08/31/199				ROUTI NE VENI PUNCT CLCT SPECI		
79 YO FEM	ALE WIT	H A HISTORY	OF ATRIAL FIBRILLATION, CONGESTIVE I	HEART FAILURE, AND		
			TH DIGOXIN, WARFARIN, HYDROCHLOROTHI			

79 YO FEMALE WITH A HISTORY OF ATRIAL FIBRILLATION, CONGESTIVE HEART FAILURE, AND CATARACT IS BEING TREATED WITH DIGOXIN, WARFARIN, HYDROCHLOROTHIAZIDE, LISINOPRIL, METOPROLOL, AND POTASSIUM OLDER ADULTS MAY DEVELOP EXAGGERATED SERUM/TISSUE CONCENTRATIONS OF DIGOXIN WHICH CAN CAUSE VISUAL DISTURBANCES, DIZZINESS, AND HEART RHYTHM DISTURBANCES. LISINOPRIL CAN CAUSE HYPOTENSION ESPECIALLY IN DEHYDRATED PTS WITH CONGESTIVE HEART FAILURE AND IT CAN ALSO CAUSE DIZZINESS. HYDROCHLOROTHIAZIDE CAN CAUSE DIZZINESS. METOPROLOL CAN CAUSE DROWSINESS.

09/03/1999 DIAG	E8120	MVA COLLISION UNSP DRIVER
09/03/1999 DIAG	8500	CONCUSSION WO COMA
09/03/1999 DIAG	85400	INTRACRANIAL INJURY OT
09/03/1999 DIAG	8602	TRAUMATIC HEMOTHORAX WO OPEN WD
09/03/1999 DIAG	86121	LUNG CONTUSION WO OPEN WOUND

D TD	I TAO AAAAA TITTII TITT	77 C D1 . 1	4004 0 1	- 1	m . n .	04 /00 /0004
Patient ID:	d510AAAAAAFKWQLT.	Year of Birth:	1931. Gender:	Female.	Trigger Date:	01/08/2001

Date Type Days of Supply	Code	Di agnosi s	Procedure	Rx	
12/19/2000 DRUG 12/20/2000 DIAG		CANDI DI ASI S VULVA/VAGI NA		CHLORDI AZEPOXI DE HCL	30
12/20/2000 DI AG 12/29/2000 DI AG	61610	DI ABETES UNCOMPL TYPE II UNS VAGINITIS/VULVOVAGINITIS			0
01/01/2001 DRUG 01/01/2001 DRUG 01/01/2001 DRUG	00172290880			CELECOXI B FUROSEMI DE OMEPRAZOLE	30 30 30
01/01/2001 DRUG 01/01/2001 DRUG 01/01/2001 DRUG	00378021001			POTASSI UM CHLORI DE CHLORPROPAMI DE OXYCODONE HCL/ACETAMI NOPHEN	30 30 20
01/04/2001 DIAG 01/04/2001 CPT4 01/05/2001 DRUG 01/05/2001 DRUG	99213 00062535001		OFFICE/OUTPATIENT VISIT, EST	TERCONAZOLE HYDROCORTI SONE	0 0 7

70 YO FEMALE WITH A HISTORY OF DM TYPE II AND PREVIOUS FRACTURE IS BEING TREATED WITH CELECOXIB AND OXYCODONE FOR PAIN. CHLORPROPAMIDE FOR THE DM. CHLORPROPAMIDE IN OLDER PATIENTS IS PARTICULARLY PRONE TO CAUSING HYPOGLYCEMIA AND DIZZINESS. FUROSEMIDE AFFECTS BLOOD SUGAR CONTROL AND ATENOLOL MAY ALSO AFFECT GLUCOSE CONTROL AND MASK SIGNS OF HYPOGLYCEMIA. OXYCODONE AND CHLORDIAZEPOXIDE SHOULD ALSO BE USED WITH CAUTION IN OLDER PTS AND MAY CAUSE EXCESSIVE SEDATION, DIZZINESS, AND CONFUCION. CONFUSION.

01/08/2001 DIAG E8120	MVA COLLISION UNSP DRIVER 01/08/2001 DRUG 00093310905	
AMOXI CI LLI N TRI HYDRATE	2	
01/08/2001 DIAG 25000	DI ABETES UNCOMPL TYPE II	0
01/08/2001 DIAG 4019	UNS HYPERTENSION	0
01/08/2001 DIAG 71597	OSTEOARTHROSIS UNSP ANKLE/FOOT	0
01/08/2001 DIAG 71887	OTH JOINT DERANGEMENT OT ANKLE/FOOT	0
01/08/2001 DIAG 71887	OTH JOINT DERANGEMENT OT ANKLE/FOOT	0
01/08/2001 DIAG 92420	CONTUSION OF FOOT	0
01/08/2001 DIAG 92420	CONTUSI ON OF FOOT	0
	0	
01/08/2001 CPT4 73630	X-RAY EXAM OF FOOT	0
01/08/2001 CPT4 99283	EMERGENCY DEPT VISIT	0
01/08/2001 HCPCS A0390	ALS MILEAGE	0
01/08/2001 HCPCS A0427	AMB SERV ADV LIFE SUPPORT ER	0
01/17/2001 DRUG 00555003302		

Patient ID: 5401AAAAAATBPWG, Year of Birth: 1927, Gender: Male, Trigger Date: 06/20/1999

Date Supply	Туре	Code	Di agnosi s	Procedure	Rx	Days of
05/12/1999 05/12/1999 05/27/1999 05/27/1999 05/29/1999	DI AG DRUG DRUG DRUG CPT4	78650 00093314505 00185072001 85610	UNSPEC CHEST PAIN	PROTHROMBIN TIME	FUROSEMI DE CEPHALEXI N MONOHYDRATE I NDOMETHACI N	
06/03/1999 $06/03/1999$ $06/08/1999$ $06/10/1999$	DI AG DRUG	4280 00555083402			WARFARIN SODIUM FLUVASTATIN SODIUM	

72 YO MALE WITH HYPERTENSION AND CONGESTIVE HEART FAILURE IS TREATED WITH WARFARIN, FLUVASTATIN, INDOMETHACIN, FUROSEMIDE. INDOMETHACIN AND FLUVASTATIN INTERACT WITH WARFARIN TO CAUSE BLEEDING. INDOMETHACIN CAN ALSO CAUSE HEADACHES AND CONFUSION. INDOMETHCAIN SHOULD BE USED WITH CAUTION IN PTS WITH CHF. FUROSEMIDE CAN CAUSE HYPOTENSION AND DIZZINESS.

00/ 20/ 1000	DIAU	LOIAU	MINA COLLISION	ONSI DIGI VER
06/20/1999	DI AG	E8120	MVA COLLISION	UNSP DRIVER
06/20/1999	CPT4	99284		
06/20/1999	DI AG	8470	SPRAI N/STRAI N	OF NECK
06/20/1999	DI AG	8471	SPRAI N/STRAI N	THORACI C REGION
06/20/1999	DIAG	8479	SPRAIN/STRAIN	OF BACK UNSPEC

06/20/1999 DIAC FRI20 MVA COLLISION HNSP DRIVER

EMERGENCY DEPT VISIT

6 Patient ID: h702AAAAAAIOFCJ, Year of Birth: 1922, Gender: Male, Trigger Date: 02/13/1999

12/02/1998 DRUG 12/02/1998 DRUG 12/02/1998 DRUG 01/02/1999 DRUG 01/02/1999 DRUG 01/02/1999 DRUG 01/13/1999 DI AG 01/13/1999 DI AG 01/13/1999 DI AG 01/13/1999 CPT4 01/13/1999 CPT4	00056017270 00088179642 00173024975 00056017270 00088179642 00173024975 4280 4280 4280 99232 99232 99233 99254	CONGESTI VE HEART CONGESTI VE HEART CONGESTI VE HEART	FAI LURE FAI LURE	SUBSEQUENT HOSPITAL CARE SUBSEQUENT HOSPITAL CARE INITIAL INPATIENT CONSULT		WARFARI N SODI UM DI LTI AZEM HCL DI GOXI N WARFARI N SODI UM DI LTI AZEM HCL DI GOXI N	30 30 30 30 30 30 30
01/16/1999 DIAG 01/20/1999 DRUG	4280 00093310905	CONGESTI VE HEART	FAILURE			AMOXICILLIN TRIHYDRATE	9
01/20/1999 DRUG	00093310903					AMOXICILLIN IRITIDRATE	9
01/20/1999 DRUG	00472001116					GUAI FENESI N/P- EPHED HCL/COD	8
01/20/1999 DIAG	4659	ACUTE UPPER RESP	INFECTIONS UNS	0000 00 (01000 100 100 100 100 100 100 1			
01/20/1999 CPT4	99212			OFFICE/OUTPATIENT VISIT, ES	ST	D. I. M. I. G. F. I. V. G. F.	
02/02/1999 DRUG 02/02/1999 DRUG	00088179642 00172290780					DI LTI AZEM HCL FUROSEMI DE	30 30
02/02/1999 DRUG	00172290780					DI GOXI N	30
02/02/1999 DRUG	00173024973					WARFARIN SODIUM	30
02/04/1999 DRUG	00030017270					MUMULIM BODI OM	30

77 YO MALE PT WITH CONGETIVE HEART FAILURE. TREATED FOR CONGESTIVE HEART FAILURE WITH DIGOXIN AND FUROSEMIDE. RECEIVING DILTIAZEM FOR HEART RHYTHM DISORDERS AND WARFARIN FOR ATRIAL FIBRILLATION. RECENT TREATMENT WITH A COUGH MEDICINE WITH CODEINE FOR AN ACUTE URI. OLDER ADULTS MAY DEVELOP EXAGGERATED SERUM/TISSUE CONCENTRATIONS OF DIGOXIN WHICH CAN CAUSE VISUAL DISTURBANCES, DIZZINESS, AND HEART RHYTHM DISTURBANCES. DILTIAZEM AGGRAVATES CHF AND CAUSES DIZZINESS AND HYPOTENSION. THE CODEINE IN THE COUGH MEDICINE MAY CAUSE DROWSINESS. FUROSEMIDE MAY CAUSE DIZZINESS AND HYPOTENSION. THIS PATIENT IS NOT RECEIVING ANY POTASSIUM SUPPLEMENTS.

02/13/1999 DIAG	E8230	OT COLLISION STNDNG OBJ DRIV	
02/13/1999 DI AG	2020	ACUTE DELI RI UM	
02/13/1999 DIAG	3013	EXPLOSIVE PERSONALITY DISORDER	
02/13/1999 DIAG	4590	UNS HEMORRHAGE	
02/13/1999 DIAG	78002	TRANSIENT ALTERATION AWARENESS	
02/13/1999 DIAG	920	CONTUSION FACE/SCALP/NCK	
02/13/1999 CPT4	99221		INITIAL HOSPITAL CARE

Patient ID: d510AAAAAHRWDQE, Year of Birth: 1932, Gender: Female, Trigger Date: 06/04/2000

Date Supply	Туре	Code	Di agnosi s	Procedure	Rx	Days of
03/28/2000 03/28/2000 03/28/2000 03/29/2000 03/29/2000 03/29/2000 03/31/2000 03/31/2000 03/31/2000 04/25/2000 04/25/2000 04/25/2000	DI AG CPT4 DRUG DRUG DRUG DRUG DRUG DRUG DRUG DRUG	2449 25000 85025 00071015523 00087607111 00378265010 00013830304 00023866510 00048113003 00310013210 00071015523 00087607111 00378265010		AUTOMATED HEMOGRAM	ATORVASTATIN CALCIUM METFORMIN HCL AMITRIPTYLINE HCL LATANOPROST BRI MONI DI NE TARTRATE LEVOTHYROXINE SODIUM LISINOPRIL ATORVASTATIN CALCIUM METFORMIN HCL AMITRIPTYLINE HCL	0 0 0 30 30 30 30 30 30 30 30 30 30 30
05/08/2000 05/08/2000 05/08/2000 05/17/2000 05/17/2000	DI AG CPT4 DRUG	25000 2725 99213 00048113003 00310013210		OFFICE/OUTPATIENT VISIT, EST	LEVOTHYROXI NE SODI UM LI SI NOPRI L	0 0 0 30 30

68 YO FEMALE WITH A HX OF HYPOTHYROIDISM, DM II, TAKES AMITRIPTYLINE WHICH CAUSES DROWSINESS AND AFFECTS BLOOD SUGAR CONTROL.
THE PATIENT IS ALSO BEING TREATED WITH METFORMIN FOR DM, LEVOTHYROXINE FOR HYPOTHYROIDISM, ATORVASATIN FOR HYPERLIPIDEMIA, LISINOPRIL FOR HYPERTENSION.

06/04/2000 DIAG	E8130	MVA OT VEH COLLISION DRIVER	
06/04/2000 DIAG	2449	UNS HYPOTHYROI DI SM	0
06/04/2000 DIAG	25000	DIABETES UNCOMPL TYPE II	0
06/04/2000 DIAG	25091	DIABETES W COMPL UNSP TYPE I	0
06/04/2000 DIAG	71949	PAIN IN JOINT MULT SITES	0
06/04/2000 DIAG	72981	SWELLING LIMB	0
06/04/2000 DIAG	78900	ABDOMINAL PAIN UNS SITE	0
06/04/2000 DIAG	9221	CONTUSION OF CHEST WALL	0
06/04/2000 DIAG	9222	CONTUSION OF ABDOMINAL WALL	0
06/04/2000 DIAG	92411	CONTUSI ON OF KNEE	0

Patient ID: 5401AAAAAAAEOLLJ, Year of Birth: 1931, Gender: Female, Trigger Date: 12/01/1999

Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
10/07/1999 10/07/1999 10/07/1999 10/07/1999 10/07/1999 11/05/1999 11/05/1999 11/05/1999 11/05/1999 11/05/1999 11/05/1999	9 DRUG 9 DRUG	00006010658 00049491066 00078017605 00085078701 00093067005 00781148810 52544048701 00006010658 00049491066 00085078701 00093067005 00781148810 52544048701			LI SI NOPRI L SERTRALI NE HCL FLUVASTATI N SODI UM POTASSI UM CHLORI DE GEMFI BROZI L AMI TRI PTYLI NE HCL ESTRADI OL LI SI NOPRI L SERTRALI NE HCL POTASSI UM CHLORI DE GEMFI BROZI L AMI TRI PTYLI NE HCL	
11/08/1999 11/09/1999		80061 00078017605		LIPID PANEL	FLUVASTATIN SODIUM	
11/22/1999 11/22/1999 11/22/1999	9 DRUG 9 DRUG 9 DRUG	00005312931 00085092402 00781196610			DI AZEPAM CLOTRI MAZOLE/BETAMET DI PROP FUROSEMI DE	
11/22/1999 11/22/1999		4019 99213	UNS HYPERTENSI ON	OFFI CE/OUTPATI ENT VI SIT, EST		
11/24/1999 11/24/1999 11/28/1999	9 DI AG	7291 00006010658	UNS MYALGI A/MYOSI TI S	OFFICE/ OUITAITEM VISIT, EST	LI SI NOPRI L	
11/28/1999 11/28/1999 11/28/1999 11/28/1999 11/28/1999	9 DRUG 9 DRUG 9 DRUG 9 DRUG	00049491066 00085078701 00093067005 00781148810 52544048701			SERTRALI NE HCL POTASSI UM CHLORI DE GEMFI BROZI L AMI TRI PTYLI NE HCL ESTRADI OL	

68 YO FEMALE HAS A HX OF HYPERTENSION AND MYALGIA/MYOSITIS. INTERESTING TO NOTE THAT GEMFIBROZIL AND FLUVASTATIN INTERACT TO CAUSE MYALGIA AND MYOPATHY. CNS IMPAIRING DRUGS PRESCRIBED ARE SERTRALINE, DIAZEPAM, AND AMITRIPTYLINE. PATIENT HAS ALSO BEEN PRESCRIBED LISINOPRIL AND FUROSEMIDE FOR HYPERTENSION.

12/01/1999 DIAG E8120 MVA COLLISION UNSP DRIVER 12/01/1999 DIAG E8199 MVA UNS INJURING UNS PERSON

Patient ID: d510AAA	AAACNBMHX, Year	of Birth:	1925,	Gender:	Male,	Tri gger	Date:	08/08/1999
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Date	Type	Code	Di agnosi s	Procedure	Rx	Days Supply
06/09/1999					LEVOFLOXACI N	10
06/09/1999					GUAI FENESI N/PPA HCL	15
06/16/1999					ALBUTEROL SULFATE	37
06/30/1999	9 DRUG	00029321120			PAROXETI NE HCL	30
06/30/1999	9 DRUG	00078017605			FLUVASTATIN SODIUM	37 30 30
07/14/1999	9 DRUG	00007411713			FAMCI CLOVI R	7
07/14/1999	9 DI AG	0539	HERPES ZOSTER WO COMPLICATION			0
07/24/1999	9 DRUG	59930150008			ALBUTEROL SULFATE	37
07/31/1999	9 DRUG	00029321120			PAROXETI NE HCL	30
07/31/1999	9 DRUG	00078017605			FLUVASTATIN SODIUM	30 30

74 YO MALE WITH A HX OF CHRONIC AIRWAY OBSTRUCTION AND HERPES ZOSTER, WAS PRESCRIBED LEVOFLOXACIN AND PAROXETINE WHICH MAY CAUSE CNS EFFECTS. PAROXETINE AND ALBUTEROL BOTH MAY CAUSE JITTERINESS. FLUVASTATIN MAY CAUSE HEADACHE AND DIZZINESS.

		U	
08/08/1999 DIAG	9591	OTH/UNS INJURY TRUNK)
08/08/1999 DIAG	E8190	MVA UNS INJURING MVA DRIVER	
08/08/1999 DIAG	71944	PAIN IN JOINT HAND)
08/08/1999 DIAG	7231	CERVI CALGI A)
08/08/1999 DIAG	7840	HEADACHE C)
08/08/1999 DIAG	9190	ABRASI ON OT)
08/08/1999 DIAG	95909	INJURY FACE/NECK)

Patient ID: e810AAAAABBWD0A, Year of Birth: 1930, Gender: Female, Trigger Date: 01/17/2002

Date Supply	Type Code	Di agnosi s	Procedure	Rx	Days of
12/10/200	01 DRUG 00378077	' 201		VERAPAMI L HCL	30

12/10/2001 DRUC 12/10/2001 DRUC 12/11/2001 DRUC 12/17/2001 DI AC 12/17/2001 CPT4 12/17/2001 CPT4	61570007301 00781140405 4359 351	UNS TRANSIENT CEREBRAL I SCHEMIA	CT HEAD/BRAIN W/O DYE		FLUOXETI NE HCL ESTROGENS, ESTERI FI ED LORAZEPAM	30 30 30
01/01/2002 DRUG					LORAZEPAM	30 30
01/02/2002 DRUC					ATORVASTATI N CALCI UM	30
01/02/2002 DIAG	2724	OTH/UNS HYPERLI PI DEMI A				
01/02/2002 DIAG	4019	UNS HYPERTENSION				
01/02/2002 DIAG	4359	UNS TRANSIENT CEREBRAL ISCHEMIA				
01/02/2002 DIAG	70219	OTH SEBORRHEIC KERATOSIS				
01/02/2002 CPT4	99214		OFFICE/OUTPATIENT VISIT,	EST		
01/09/2002 DRUG	00378077201				VERAPAMI L HCL	30
01/09/2002 DRUG	00555087702				FLUOXETI NE HCL	30
01/09/2002 DRUG	61570007301				ESTROGENS, ESTERI FI ED	30 30 30
01/11/2002 DIAG		OSTEOARTHROSIS LOCAL PRIM FOREARM				30
01/11/2002 DIAG		OTH/UNS INJURY ELBOW FOREARM/WRIST				
01/11/2002 CPT4		OTHE CHO THOUSE ELDOW I ORDERED WILLDI	X-RAY EXAM OF WRIST			
01/11/2002 CI 14	73110		A-IMI EAMII OF WILLDI			

6

72 YO FEMALE WITH A HX OF HYPERTENSION AND TRANSIENT CEREBRAL ISCHEMIA AND OSTEOARTHROSIS IS PRESCRIBED TWO CNS AFFECTING DRUGS -LORAZEPAM AND FLUOXETINE. SHE IS ALSO PRESCRIBED VERAPAMIL FOR HYPERTENSION AND ATORVASTATIN FOR HYPERLIPIDEMIA. VERAPAMIL INTERACTS WITH ATORVASTATIN TO INCREASE THE BLOOD LEVEL OF ATORVASTATIN. VERAPAMIL ALSO MAY CAUSE DIZZINESS.

01/17/2002 DIAG	E8120	MVA COLLISION UNSP DRIVER		
01/17/2002 DRUG	55370014108		NAPROXEN	30
01/17/2002 DRUG	00591565810		CYCLOBENZAPRI NE HCL	30
01/17/2002 DIAG	72190	SPONDYLOSIS UNS SITE WOMYELOPATHY		
01/17/2002 DIAG	7226	DEGENERATION IV DISC SITE UNS		
01/17/2002 DIAG	7231	CERVI CALGI A		
01/17/2002 DIAG	7295	PAIN IN LIMB		
01/17/2002 DIAG	9598	IN HIRY OTHER SITES INC MILT SITES		

Patient ID: a302AAAAAAAS0IOZ, Year of Birth: 1929, Gender: Male, Trigger Date: 05/04/1999

Date Type Code Diagnosis Procedure $\ensuremath{\mathtt{Rx}}$ Days Supply

04/05/1999 DRUG 00007413920 CARVEDI LOL 30

04/05/1999 DRUG 04/07/1999 DRUG	00904773240 00005356331			GEMFI BROZI L METHOCARBAMOL	30 12
04/09/1999 DIAG	4280	CONGESTIVE HEART FAILURE		WETHOCARDAWOL	12
04/09/1999 DIAG 04/12/1999 DRUG	71590 00049490066	OSTEOARTHROSIS UNSP SITE		SERTRALI NE HCL	30
04/14/1999 DRUG 04/19/1999 DRUG	00093089005 00005356331			PROPOXYPHENE/ACETAMI NOPHEN METHOCARBAMOL	16 12 66
04/19/1999 DRUG 04/20/1999 DRUG	00310013510 00093310905			LI SI NOPRI L AMOXI CI LLI N TRI HYDRATE	66 1
04/20/1999 DRUG 04/20/1999 DIAG	00172290970 4280	CONGESTIVE HEART FAILURE		HYDROXYZI NE PAMOATE	30
04/20/1999 DIAG	4280	CONGESTIVE HEART FAILURE			
04/22/1999 DIAG 04/22/1999 HCPCS		OSTEOARTHROSIS UNSP SITE	INJ KETOROLAC TROMETHAMINE P		
04/23/1999 DIAG 04/23/1999 DIAG	72400 78057	SPINAL STENOSIS UNS NONCERVICAL OTH/UNS SLEEP APNEA			
04/23/1999 HCPCS 04/28/1999 DLAG	E1403 53010	UNS ESOPHAGITIS			
04/28/1999 CPT4 05/03/1999 DRUG	99214 00071035323		OFFICE/OUTPATIENT VISIT, EST	TROGLI TAZONE	30
05/03/1999 DRUG	00071033323			PROPOXYPHENE/ACETAMI NOPHEN	7

70 YO MALE WITH CHF, OSTEOARTHROSIS, SPINAL STENOSIS, AND SLEEP APNEA IS TREATED WITH CARVEDILOL, LISINOPRIL, AND GEMFIBROZIL FOR CARDIOVASCULAR DISORDERS. THE PROPOXYPHENE AND METHOCARBAMOL IS FOR THE OSTEOARTHROSIS AND SPINAL STENOSIS. SERTRALINE IS AN SSRI ANTIDEPRESSANT. HYDROXYZINE IS AN ANTIHISTAMINE. HYDROXYZINE, METHOCARBAMOL, AND PROPOXYPHENE HAVE INCREASED CNS EFFECTS IN OLDER PTS. THESE INCLUDE SEDATION, CONFUSION, DIZZINESS. SERTRALINE MAY CAUSE NERVOUSNESS. LISINOPRIL AND CARVEDILOL MAY CAUSE HYPOTENSION. THE SLEEP APNEA MAY HAVE MORE DAYTIME SEDATION ASSOCIATED WITH IT.

13 05/04/1999 DIAG E8120 MVA COLLISION UNSP DRIVER

Patient ID: a302AAAAAAAVHGAU, Year of Birth: 1935, Gender: Female, Trigger Date: 05/24/2001

Date Type Days of Supply	Code	Di agnosi s	Procedure	Rx	
03/04/2001 DRUG 03/24/2001 DRUG 03/24/2001 DRUG 03/30/2001 DRUG	00378075101 00005321943 59911581201 00378075101			CYCLOBENZAPRI NE HCL ATENOLOL LORAZEPAM CYCLOBENZAPRI NE HCL	30 30 30 30
04/13/2001 DRUG 04/18/2001 DIAG 04/18/2001 CPT4	00300304613 4019 99214	UNS HYPERTENSI ON	OFFICE/OUTPATIENT VISIT. EST	LANSOPRAZOLE	30
04/26/2001 DRUG 04/26/2001 DRUG 04/29/2001 DRUG 04/30/2001 DRUG 05/04/2001 DRUG 05/14/2001 DRUG	00005321943 00046086781 00378075101 00071015623 59911581201 00300304613			ATENOLOL ESTROGENS, CONJUGATED CYCLOBENZAPRI NE HCL ATORVASTATI N CALCI UM LORAZEPAM LANSOPRAZOLE	30 90 30 30 30 30

66 YO FEMALE HAS HYPERTENSION. SHE IS RECEIVING ATENOLOL TO TREAT THE HYPERTENSION. SHE IS TAKING CONJUGATED ESTROGENS, ATORVASTATIN, AND LANSOPRAZOLE. SHE IS ALSO RECEIVING TWO CNS AFFECTING DRUGS —CYCLOBENZAPRINE AND LORAZEPAM. ATENOLOL MAY CAUSE HYPOTENSION, DIZZINESS, INSOMNIA, AND CONFUSION.

05/24/2001 DIAG E8	190 MVA UNS 1	INJURING MVA DRIVER
05/24/2001 DIAG E8	495 PLACE OC	CURRENCE STREET/HIGHWAY
05/24/2001 DIAG 78	09 OTH GENE	RAL SYMPTOMS
05/24/2001 DIAG 84°	70 SPRAI N/S'	FRAIN OF NECK
05/24/2001 DIAG 95	29 SPINAL C	ORD INJURY UNS SITE

10 Patient ID: h702AAAAAAMTNBC, Year of Birth: 1928, Gender: Female, Trigger Date: 06/28/1999

Date Type Code Di agnosi s Procedure Rx

Days Supply

05/07/1999 DRUG	00083006330		BENAZEPRI L HCL	30
05/11/1999 DRUG	00406036105		HYDROCODONE BIT/ACETAMINOPHEN	30
05/22/1999 DRUG	00049490066		SERTRALINE HCL	30
06/01/1999 DRUG	00364047505		CARI SOPRODOL	3
06/01/1999 DIAG 06/04/1999 DRUG 06/11/1999 DRUG 06/11/1999 DRUG 06/17/1999 DRUG 06/24/1999 DRUG	7245 00025138131 00083006330 00087606010 00406036105 00364047505	UNS BACKACHE	OXAPROZI N BENAZEPRI L HCL METFORMI N HCL HYDROCODONE BIT/ACETAMI NOPHEN CARI SOPRODOL	10 30 30 3 3

71 YO FEMALE PT WITH A HX OF BACKACHE. SHE IS TAKING FOUR DRUGS THAT AFFECT THE CNS -HYDROCODONE, SERTRALINE, OXAPROZIN, AND CARISOPRODOL. THEY CAUSE DIZZINESS, DROWSINESS, CONFUSION, BLURRED VISION. BENAZEPRIL CAN ALSO CAUSE DIZZINESS AND HYPOTENSION.

06/28/1999	DI AG	E8139	MVA OT VEH COLLISION PERS UNSP
06/28/1999	DI AG	E8495	PLACE OCCURRENCE STREET/HIGHWAY
06/27/1999	DI AG	4590	UNS HEMORRHAGE
06/27/1999	DI AG	9598	INJURY OTHER SITES INC MULT SITES
06/28/1999	DI AG	8470	SPRAIN/STRAIN OF NECK
06/28/1999	DI AG	95200	C1 C4 INJ W UNS SPINAL CORD INJ
06/28/1999	DI AG	9591	OTH/UNS INJURY TRUNK

11 Patient ID: d510AAAAAAKKWQLT, Year of Birth: 1931, Gender: Female, Trigger Date: 01/08/2001

Date Type Days of Supply	Code	Di agnosi s	Procedure	Rx	
12/19/2000 DRUG	00555003302			CHLORDI AZEPOXI DE HCL	30
12/20/2000 DIAG	1121	CANDI DI ASI S VULVA/VAGI NA			0
12/20/2000 DIAG	25000	DIABETES UNCOMPL TYPE II			0
12/29/2000 DIAG	61610	UNS VAGINITIS/VULVOVAGINITIS			0
12/29/2000 CPT4	76075		US EXAM, ABDOM, LIMITED		0
12/29/2000 CPT4	99213		OFFI CE/OUTPATI ENT VI SI T, EST		0
01/01/2001 DRUG	00025152531			CELECOXI B	30
01/01/2001 DRUG	00172290880			FUROSEMI DE	30
01/01/2001 DRUG	00186074231			OMEPRAZOLE	30

Date

Type Code

01/01/2001 DRUG	00245004015			POTASSI UM CHLORI DE	30
01/01/2001 DRUG	00378021001			CHLORPROPAMI DE	30
01/01/2001 DRUG	00406053201			OXYCODONE HCL/ACETAMI NOPHEN	20
01/04/2001 CPT4	99213	OFFICE/OUTPATIENT VISIT,	EST		0
01/05/2001 DRUG	00062535001			TERCONAZOLE	7
01/05/2001 DRUG	49158020007			HYDROCORTI SONE	7

70 YO FEMALE WITH A HISTORY OF DM TYPE II AND PREVIOUS FRACTURE IS BEING TREATED WITH CELECOXIB AND OXYCODONE FOR PAIN. CHLORPROPAMIDE FOR THE DM. CHLORPROPAMIDE IN OLDER PATIENTS IS PARTICULARLY PRONE TO CAUSING HYPOGLYCEMIA AND DIZZINESS. FUROSEMIDE AFFECTS BLOOD SUGAR CONTROL AND ATENOLOL MAY ALSO AFFECT GLUCOSE CONTROL AND MASK SIGNS OF HYPOGLYCEMIA. OXYCODONE AND CHLORDIAZEPOXIDE SHOULD ALSO BE USED WITH CAUTION IN OLDER PTS AND MAY CAUSE EXCESSIVE SEDATION, DIZZINESS, AND CONFUSION.

01/08/2001 DIAG	92420	CONTUSION OF FOOT	0
01/08/2001 DIAG	E8120	MVA COLLISION UNSP DRIVER	
01/08/2001 DRUG	00093310905	AMOXI CI LLI N TRI HYDRATE	2
01/08/2001 DIAG	25000	DIABETES UNCOMPL TYPE II	0
01/08/2001 DIAG	4019	UNS HYPERTENSI ON	0
01/08/2001 DIAG	71597	OSTEOARTHROSIS UNSP ANKLE/FOOT	0
01/08/2001 DIAG	71887	OTH JOINT DERANGEMENT OT ANKLE/FOOT	0
01/08/2001 DIAG	71887	OTH JOINT DERANGEMENT OT ANKLE/FOOT	0
01/08/2001 DIAG	92420	CONTUSION OF FOOT	0

Patient ID: e810AAAAABUMGYK, Year of Birth: 1932, Gender: Female, Trigger Date: 10/02/2000

Di agnosi s

07/17/2000 DIAG 71941 PAIN IN JOINT SHOULDER 07/17/2000 DIAG 71941 PAIN IN JOINT SHOULDER 07/17/2000 CPT4 73030 X-RAY EXAM OF SHOULDER	

07/17/2000 CPT4 99204 OFFI CE/OUTPATI ENT VI SI T, NEW 07/27/2000 DRUG 00378400301 ALPRAZOLAM	14
08/15/2000 DRUG 00310013234 LISI NOPRI L 08/15/2000 DRUG 55953034370 GLYBURI DE	30 30
08/28/2000 DRUG 00378400301 08/28/2000 DRUG 00456032301 08/28/2000 DIAC 71591 OSTEOARTHROSIS INSP SHOULDER	14 30

Procedure

 $\mathbf{R}\mathbf{x}$

08/28/2000 DIAG	F 71591	OSTEOARTHROSIS UNSP SHOULDER			
08/28/2000 DIAG	F 71591	OSTEOARTHROSIS UNSP SHOULDER			
08/28/2000 CPT4	20610		DRAIN/INJECT, JOINT/BURSA		
08/28/2000 CPT4	1 73030		X-RAY EXAM OF SHOULDER		
08/28/2000 HCPO	CS J0702		INJ BETAMETHASONE ACETATE &		
09/18/2000 DRUG	6 00310013234			LI SI NOPRI L	30
09/18/2000 DRUG	55953034370			GLYBURI DE	30
09/28/2000 DRUG	G 00378400301			ALPRAZOLAM	14

68 YO FEMALE HAS A HISTORY OF OSTEOARTHROSIS AND DM II. SHE IS BEING PRESCRIBED ALPRAZOLAM, GLYBURIDE, LISINOPRIL, AND LEVOTHYROXINE. SIDE EFFECTS OF GLYBURIDE ARE HEADACHE AND DIZZINESS. LEVOTHYROXINE CAN CAUSE NERVOUSNESS AND PALPITATIONS. LISINOPRIL CAN CAUSE HYPOTENSION. ALPRAZOLAM CAN CAUSE DROWSINESS, ATAXIA, AND LIGHTHEADEDNESS.

10/02/2000 DIAG	E8130	MVA OT VEH COLLISION DRIVER
10/02/2000 DIAG	71941	PAIN IN JOINT SHOULDER
10/02/2000 DIAG	7231	CERVI CALGI A
10/02/2000 DIAG	8470	SPRAIN/STRAIN OF NECK

Patient ID: h702AAAAAAALNJXR, Year of Birth: 1933, Gender: Male, Trigger Date: 12/16/1999

Date Days Suppl	Type y	Code	Di agnosi s	Procedure	Rx	
10/18/1999 10/18/1999 10/18/1999	DI AG DI AG	59772691001 25000 25000	DIABETES UNCOMPL TYPE II DIABETES UNCOMPL TYPE II		POTASSI UM CHLORI DE	30
10/18/1999 10/18/1999 10/21/1999 10/28/1999 11/03/1999	HCPCS DRUG DRUG DRUG	99212 J1820 00049276066 00002871501 00378020810 52544024001		OFFICE/OUTPATIENT VISIT, EST INJ INSULIN TO 100 UNITS	DOXAZOSIN MESYLATE INSUL NPH HU REC/INS RG HU REC FUROSEMI DE LORAZEPAM	30 30 30 30
11/16/1999 11/16/1999 11/16/1999 11/19/1999	DI AG CPT4 HCPCS	V048 90782	VACCINE FOR INFLUENZA	INJECTION, SC/IM ADMIN FLU VIRUS VAC-NO MD FE	POTASSI UM CHLORI DE	30
12/06/1999 12/07/1999		00378020810 00002871501			FUROSEMI DE I NSUL NPH HU REC/I NS RG HU REC	30 30

12/15/1999 DRUG 52544024001 LORAZEPAM 30

66 YO MALE IS A TYPE II DIABETIC. HE IS TREATED WITH INSULIN. FUROSEMIDE MAY CAUSE HYPERGLYCEMIA AND CAUSE DIZZINESS. DOXAZOSIN CAN CAUSE MARKED HYPOTENSION AND SYNCOPE, AS WELL AS SOMNOLENCE AND FATIGUE. GREATER THAN 10% OF PATIENTS EXPERIENCE SEDATION WITH LORAZEPAM

12/16/1999	DIAG	E8120	MVA COLLISION UNSP DRIVER
12/16/1999	DI AG	E8495	PLACE OCCURRENCE STREET/HIGHWAY
12/16/1999	DI AG	7231	CERVI CALGI A
12/16/1999	DI AG	8470	SPRAIN/STRAIN OF NECK
12/16/1999	DI AG	8472	SPRAIN/STRAIN LUMBAR REGION

DOT HS 810 858 May 2008



