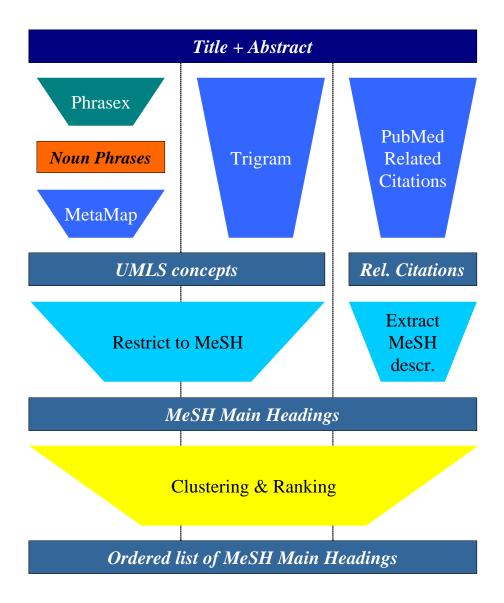
Medical Text Indexer (MTI)



(Last Updated: Monday, March 13, 2006)

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1. Introduction

This document will provide detailed information on all of the processing that takes place behind the scenes in the Medical Text Indexer (MTI). As the diagram below shows, there is a lot going on.

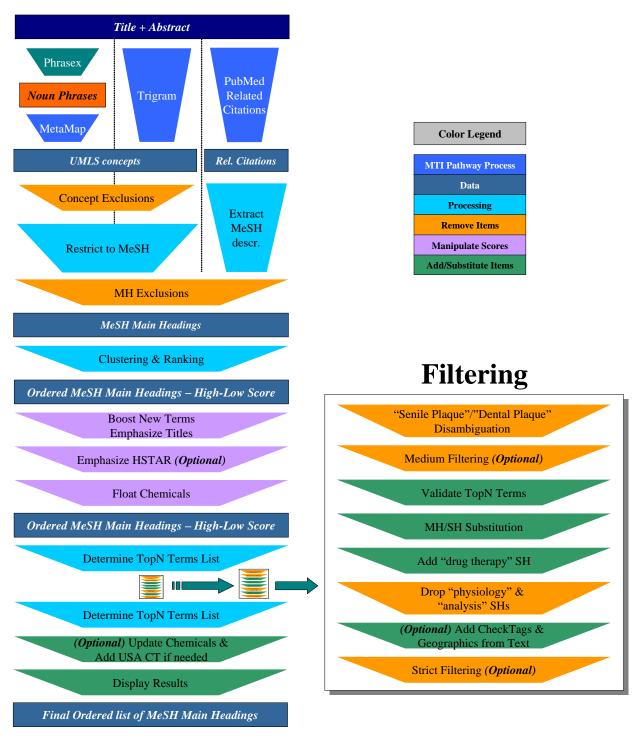


Figure 1: Detailed Medical Text Indexer Process Flow Diagram

2. Exclusions

The following terms are excluded or substituted for even before we get to the Clustering phase of processing in the MTI system.

There is a new option "noCheckRC" which allows the user to turn off the checking of <u>ALL</u> of these Exclusions from the PubMed Related Citations. This was based on the premise that if a PubMed Related Citation recommended the term, it probably should be there. If the "noCheckRC" option is included, only the MetaMap terms are processed through the Exclusions checking.

Regardless of pathway (MetaMap or PubMed) the following MeSH terms are removed:

- TEST
- Comparative Study
- Case Report
- Disease
- [Publication Type]

If the pathway is **Related Citations**, the following special filtering is done to remove a problem in the Medline/PubMed citations where a decision to collapse some MeSH terms came too late for the Year-End Processing at the end of 2005:

• "Influenza A Virus, Human", "Influenza A Virus, Avian", and "Influenza A Virus, Porcine" are all switched to "Influenza A virus".

If the pathway is **MetaMap**:

- the following MeSH term is removed
 - Role
- We remove all terms listed in the CUI_Excludes (*Appendix-I*) list. The CUI_Excludes list includes problematic UMLS concepts that come from MetaMap that we don't want to include. These are typically descriptive concepts like "Monitor urine output every hour" and don't help in determining the indexing.
- We remove all terms listed in the BadCTs (*Appendix-D*) list. This is a list of CheckTags that shouldn't be indexed by the MTI program like "English Abstract".
- The following special filtering is done to remove particularly problematic examples of ambiguity:
 - "Commonwealth of Independent States" and "Genus Cis" when the trigger is "CI" which generates a variant "CIS" which causes the erroneous inclusion of the concepts.
 - "Greece" when the trigger is "co" which generates a variant "cos" which causes the erroneous inclusion of the concept.
 - "Seals, Earless" when the trigger is "sealed" which is a variant of "seal", but, is related to sealants and not mammals.

- "Bias genus" when the trigger is "biased" which generates a variant "bias" which cause the erroneous inclusion of the concept.
- "INS gene", "Infantile nystagmus syndrome", "Informatics Nurse Specialist", and "French translation of the Medical Subject Headings" when the trigger is "in" which generates a variant "ins" which causes the erroneous inclusion of the concepts.
- "protect" which is a trade name of a product that protects seeds from herbicides. If "protect" or one of its variants is found, we won't use the concept unless we also find "Herbicides" in the results from MetaMap.

If the pathway is **MetaMap ONLY**, the following MeSH term replacements are done:

- Men is replaced by CheckTag Male and CheckTag Humans
- Women is replaced by CheckTag Female and CheckTag Humans
- Patients is replaced by CheckTag Humans

If the *remMHs* option is set:

- Remove MeSH Headings found in the MH Exclusion (*Appendix-H*) list regardless of path with the following caveat:
 - If the matching MeSH Heading is marked as a "<u>Special</u>" term in the MH Exclusion list then we have to verify if it came from the Title in the citation. If the MeSH Heading was triggered by a <u>perfect matching term</u> in the citation's Title field, we will <u>not exclude</u> the MeSH Heading. This caveat is only applied to MeSH Headings that have come from MetaMap since that is the only path that provides Title/Abstract location information.

We also ignore the following list of titles when they are the only contents of the input item. These are common title only citations that regularly occur in some of our processing and we know that they will generate no reasonable indexing recommendations. So, whenever these occur, MTI returns an empty result without processing any further.

- "TI [In Process Citation]"
- "TI Invited commentary."
- "TI Editorial comment."
- "TI Fyi."
- "TI NewsCAP."
- "TI OlaDance."
- "TI Systembiology."

3. Clustering and Ranking

The MeSH® headings produced by all of the Indexing Initiative (II) methods are clustered and then formed into a single, final list of recommended indexing terms. This document discusses the steps involved in this clustering and ranking process. A high level view of the steps involved in the processing is as follows:

- 1. Load and summarize individual path results calculating the term weights (see the section entitled "Calculating Term Weights"),
- 2. Clustering of the results determining which of the results are related (see the section entitled "*Clustering*"), and finally
- 3. Ranking the results using the information obtained in 1 and 2 to compute the rank of each item (see the section entitled "*Ranking*").

Each of these steps will be reviewed in detail over the following sections of this document. But first we provide the reader with some background on where the underlying data used in the processing comes from in the next two sections.

3.1. Overview of Clustering and Ranking (from BoSC99 report)

The task here is to provide a weighting of the confidence or strength of belief in the assignment, and rank the suggested headings appropriately. There are a number of factors that can be recognized as playing a role in that confidence. The method of finding the heading (the path), how much confidence is available in how the method found the heading (the goodness of the match), the location in the text of the nominal phrase that led to that suggestion (the location), and the semantic consistency of the suggested heading with the other suggested headings (the corroborating evidence).

Assigning a weight to the overall method of finding the heading (the *PathWeight*) allows one to discount a method appropriate to strengths. For example, a certain path might not be very specific, but have some sensitivity in suggesting headings that would otherwise not occur. When headings found by other paths offer corroborative evidence for a heading suggested by this method, the additional confidence gained might be helpful.

The goodness of the match, i.e., how much confidence to place in a given heading, depends on the method used to find the heading. The possibilities are:

- A phrase identified in text is an exact match to a MeSH term. Equivalently, it might have been a match to a UMLS[®] term that was a synonym of a MeSH term.
- Of lesser significance is an exact match to a UMLS term that is then be mapped to a MeSH heading using the Restrict to MeSH method.
- Another possibility is that the phrase is an inexact, or approximate, match to a UMLS term, which is either a synonym of a MeSH heading or mapped to MeSH.

Thus, each time a MeSH heading is suggested, a weighting can be given to that suggestion. This is accomplished using both a *MapScore* and a *NavScore*. The MapScore reflects the confidence in the mapping to a UMLS term, the NavScore the confidence in navigating from a UMLS term to a MeSH Heading.

With regard to the importance of location, the main consideration was whether or not the phrase leading to a heading suggestion was mentioned in the title. All other things being equal, indexers know that things mentioned in the title of the article are probably more important than other concepts mentioned in the article. Similarly, if the heading was suggested by a phrase occurring in the title, it should be given more weight. The additional weight is added as a constant in the formula.

Semantic consistency can be thought of as corroborative evidence for the goodness of a suggestion. It is identified by relationships that a suggested heading has with other suggested headings. These relationships might be either the occurrence in the same hierarchy (as parents or siblings), or as known co-occurring headings in MEDLINE. This latter evidence needs to be weighted according to a normalized frequency of this co-occurrence. The normalized frequency times a constant becomes the COT weight. The former evidence is the REL weight, and is a simple constant.

The overall RankScore can be altered by changing any of the constants (COT, REL, and PathWeight) or by changing the method by which the weight is calculated (NavScore and MapScore). Altering these values allows a number of experiments to be performed to evaluate the robustness of the weighting scheme, and to establish reasonable values for the constants.

3.2. UMLS® Metathesaurus® Files

There are two main UMLS Metathesaurus files used by the clustering and ranking functions, the MRREL and MRCOC files. The following definitions come directly from the UMLS Metathesaurus documentation. The MRCOC file is used to create the normalized frequency database table that the Indexing Initiative uses.

3.2.1. Related Concepts (File = MRREL)

There is one row in this table for each relationship between Metathesaurus concepts known to the Metathesaurus, with the following exceptions found in other files: co-occurrences found in MRCOC; Locator information in MRLO; and Associated Expressions found in MRATX.

Note that for asymmetrical relationships there is one row for each direction of the relationship. Note also the direction of REL - the relationship that the SECOND concept (with Concept Unique Identifier CUI2) HAS TO the FIRST concept (with Concept Unique Identifier CUI1).

RELs may be derived from a source vocabulary's explicit hierarchy (see also MRCXT), derived from other relationships in a source vocabulary, created from information about

allowed qualifiers in a source vocabulary, found in Metathesaurus QA of lexical and semantic matches, or added by Metathesaurus editors.

Where relationships are asymmetrical, there are separate RELS for each direction of the relationship, e.g., one entry for "Atrial Fibrillation" as a child of "Arrhythmia" and another entry for "Arrhythmia" as a parent of "Atrial Fibrillation".

Valid Values for REL:

RB	has a broader relationship	
RN	has a narrower relationship	
RO	has relationship other than synonymous, narrower, or broader	
RL	the relationship is similar or "alike". Some concepts linked by the RL relationship may be determined to be synonyms in future editions of the Metathesaurus. In the current edition of the Metathesaurus, most RL relationships link MeSH supplementary concepts, which have not yet been edited in the new MeSH concept-oriented system. In future editions of the Metathesaurus, this Relation will also be used for "quasisynonyms", such as "Hypertension" and "High Blood Pressure", which are sometimes used synonymously, but have distinct meanings in some circumstances. When RL is used for quasisynonyms, the RELA (Relationship Attribute) will further identify the "quasisynonymous" Relationship.	
PAR	has parent relationship in a Metathesaurus source vocabulary	
CHD	has child relationship in a Metathesaurus source vocabulary	
SIB	has sibling relationship in a Metathesaurus source vocabulary.	
AQ	is an allowed qualifier for the first concept in a Metathesaurus source vocabulary.	

3.2.2. Co-occurring Concepts (File = MRCOC)

There are two rows in this table for each pair of concepts that co-occur in each information source represented one for each direction of the relationship. (Note that the COA data may be different for each direction of the relationship). Many Metathesaurus concepts have no entries in this file. Due to the very large number of co-occurrence relationships, they are distributed in a separate file.

Co-occurrences are concepts that occur together in the same "entries" in some information source. The relationships represented here are obtained from machine-manipulation of the information source. Co-occurrence relationships may exist between similar concepts (e.g., "Atrial Fibrillation" and "Arrhythmia") or between very different concepts that nevertheless have some important connection in the field of biomedicine (e.g., "Atrial Fibrillation" and "Digoxin"), or between a primary concept and a qualifier e.g., "Lithotripsy" and "instrumentation". A co-occurrence relationship can exist between two concepts that have no other apparent relationship, although the frequency of such co-occurrences will be small.

In the current Metathesaurus, there are three sources of co-occurrence data: MEDLINE, AI/RHEUM, and CCPSS. From MEDLINE, co-occurrence data was computed for concepts that were designated as principal or main points in the same journal article i.e., the co-occurrence counts do not include articles in which either or both of the concepts were present and indexed in MEDLINE but not designated as main points. (A concept is considered to be a main point if the * is attached to the main heading or any of its subheadings.)

3.3. Creating the Normalized Frequency Scores for the Co-Occurring Concepts

This section of the document discusses how we create the co-occurring concepts normalized frequency database used in the Indexing Initiative's Medical Text Indexer (MTI). These steps are done once at the beginning of each year with the final released version of the UMLS Metathesaurus, specifically the MRCOC table.

3.3.1. Overview

The following steps calculate the normalized frequency score for the co-occurring concepts:

- 1. Summarize all of the records we have by combining identical pairings of CUI1 and CUI2 frequency counts,
- 2. Determine an overall total of frequency counts for each CUI1 we have, and
- 3. Finally, divide the frequency counts for each of the records (now summarized) by the total number of frequency counts for the CUI1 that the record is associated with.

3.3.2. Detailed Explanation and Example

1. We pull all records from the MRCOC file except ones containing "|LQ|" in the Type of Co-Occurrence (COT) field. The "LQ" (MeSH topical qualifier) records are only relevant if we want to augment our SubHeading recommendations. We only keep fields 1, 2, and 5 -- CUI1, CUI2, and COF (Frequency of Co-Occurrence) respectively in a bar separated list.

We end up with a file containing lines similar to the sample below:

```
C0000039 | C0000300 | 2

C0000039 | C0001006 | 1

C0000039 | C0001128 | 1

C0000039 | C0001392 | 1

C0000039 | C0001480 | 1

C0000039 | C0001480 | 1

...
```

2. We than summarize this list by CUI1 by summing the COF for each CUI1 and CUI2 combination and providing a total frequency count for each CUI1 and CUI2 pairing. In the example in #1 above, we would combine the last two rows because the CUI1 and CUI2 pairings are identical. We end up with a file containing lines similar to the sample below:

```
C0000039 | C0000300 | 2

C0000039 | C0001006 | 1

C0000039 | C0001128 | 1

C0000039 | C0001392 | 1

C0000039 | C0001480 | 2

...
```

3. We create a temporary file containing a single line for each unique CUI1 concept. This line contains the total frequency count for that particular CUI1. We end up with a file containing lines similar to the sample below:

```
C0000039|1190
...
```

4. We now combine the two files from #2 and #3. We want to end up with a file containing all of the records of #2 above and the total frequency count from #3 above appended to the end of the line. We end up with a file containing lines similar to the sample below:

```
C0000039|C0000300|2|1190

C0000039|C0001006|1|1190

C0000039|C0001128|1|1190

C0000039|C0001392|1|1190

C0000039|C0001480|2|1190

...
```

5. We now calculate the normalization of the frequency counts for each of the records by dividing the individual record's frequency count (field 3) by the CUI1's total frequency count (field 4). We end up with a file containing lines similar to the sample below:

```
C0000039 | C0000300 | 0.001681

C0000039 | C0001006 | 0.000840

C0000039 | C0001128 | 0.000840

C0000039 | C0001392 | 0.000840

C0000039 | C0001480 | 0.001681

...
```

3.4. Calculating TermWeight

The TermWeight for each MeSH Heading is the summation of all entries for a MH from each of the various paths used (MetaMap after Restrict to MeSH (MMI) and PubMed Related Citations (RC)). The TermWeight for each MH regardless of path is calculated using the following formula where *i* represents the single occurrence of the suggestion of one MeSH heading:

$$TermWeight = TW = \sum_{i=1}^{n} (PathWeight_i * MapScore_i * NavScore_i)$$

 ${\bf Equation~1 - Term Weight~Formula}$

Assigning a weight to the overall method of finding the heading (*PathWeight*) allows one to discount a method appropriate to strengths. The *MapScore* reflects the confidence in the mapping to an UMLS term by a specific method, the *NavScore* is the confidence in navigating from an UMLS term to a MeSH heading.

3.4.1. Tunable and System Parameters

The following table depicts the parameters used in calculating the TermWeight along with their default values:

Abbreviation	Full Name	Tunable by User	Default Value	
MMI	MetaMap Indexing Path Weight (PathWeight)	X	7	
RC	Related Citations Path Weight (PathWeight)	X	2	
I	Direct Match Navigational String – MMI (NavScore)	X	1.00	
A	ATX (Associated Expression) Navigational String – MMI	X	1.00	
	(NavScore)			
G/P	Parent/Broader Navigational String – MMI (NavScore)	X	0.90	
G/C	Child/Narrower Navigational String – MMI (NavScore)	X	0.75	
G/S	Sibling Navigational String – MMI (NavScore)	X	0.70	
0	Other Related Navigational String – MMI (NavScore)	X	0.50	
IM	MeSH Major Topic Navigational String – RC (NavScore)	X	1.00	
NIM	MeSH Heading Navigational String – RC (NavScore)	X	0.80	
Best possible score for items returned by the MMI path (MapScore) - 1,000				
Best possible score for items returned by the RC path (MapScore) - 255				
Best possible score for items returned by the Trigram path (<i>MapScore</i>) - 1,000				

3.4.2. Steps Followed in Calculating the TermWeight

The following steps are done for each MeSH Heading:

1. The weight from the item is provided by each of the individual paths along with the navigational string information. The following example shows items returned for the concept "Blood Flow Velocity" via both the MMI and RC pathways. The individual MapScores are highlighted in **blue** and the individual navigation strings are highlighted in tan.

```
① MMI: 97479605|C0005798|118|G/P|Blood Flow Velocity|MH||TI|
② MMI: 97479605|C0005798|118|O|Blood Flow Velocity|MH||TI|
③ RC: 97479605|C0005798|28.1847|NIM|Blood Flow Velocity|MH|3|
③ RC: 97479605|C0005798|26.4019|NIM|Blood Flow Velocity|MH|8|
⑤ RC: 97479605|C0005798|26.0665|NIM|Blood Flow Velocity|MH|8|
```

In the first line we have an item coming from the MMI pathway with a MapScore of 118 out of a possible 1,000 perfect score and having a navigational string of G/P (Parent/Broader).

In the third line we have an item coming from the RC pathway with a MapScore of 28.1847 out of a possible 255 perfect score and having a navigational string of NIM (MeSH Heading).

2. The items are loaded into the program systematically, so we will always load all of the MMI terms before loading all of the RC terms. To calculate the PathWeight to be used in the calculations for each item, we divide the individual path weight by the path-scoring factor. The path-scoring factor is used to equalize all of the different scoring methods. If the path is MMI or Trigram, we use 1,000 and for RC, we use 255.

```
MMI PathWeight = 7/1000 = 0.0070
RC PathWeight = 2/255 = 0.0078
```

3. We can than calculate the individual item weights via (PathWeight * MapScore * NavScore) where NavScore depends on the navigation string (see table above):

```
① MMI: (118 * 0.0070) * 0.90 (G/P) = 0.7434
② MMI: (118 * 0.0070) * 0.50 (O) = 0.4130
③ RC: (28.1847 * 0.0078) * 0.80 (NIM) = 0.1769
③ RC: (26.4019 * 0.0078) * 0.80 (NIM) = 0.1657
⑤ RC: (26.0665 * 0.0078) * 0.80 (NIM) = 0.1635
```

4. Now we sum all of these individual item weights together to get our final TermWeight.

```
0.74340 + 0.41309 + 0.17698 + 0.16579 + 0.16359 = 1.6625
```

For our example "Blood Flow Velocity", we have a final TermWeight of 1.6625 and the five (5) different path entries have been summarized into a single term in our list containing the concept name, CUI, score (which is zero at this point), and the TermWeight that we just calculated.

Blood Flow Velocity|C0005798|0|1.6625

5. The summarized list for all processed and summarized items will look similar to the following:

```
mt_table[0]:    DNA-Binding Proteins|C0012940|0|1.0150
mt_table[1]:    Transcription Factors|C0040648|0|1.0150
mt_table[2]:    SEF1 protein|C0212321|0|1.0150
mt_table[3]:    Blood Circulation Time|C0919393|0|1.1564
mt_table[4]:    Radionuclide Imaging|C0034606|0|1.1564
mt_table[5]:    Blood Flow Velocity|C0005798|0|1.6625
mt_table[6]:    Neurology|C0027855|0|0.4025
. . .
mt_table[84]:    Confusion|C0009676|0|0.1651
mt_table[85]:    Glasgow Coma Scale|C0017594|0|0.3287
mt_table[86]:    Predictive Value of Tests|C0032944|0|0.1651
mt_table[87]:    Regional Blood Flow|C0034980|0|0.1651
mt_table[88]:    Regression Analysis|C0034980|0|0.1651
```

3.5. Clustering

In the clustering phase, we are going to go through every item in our summarized and term weighted list looking for what other items in the list either co-occur with the item or are related via the MeSH tree structure to the item. In an attempt to make the process faster, we are going to compute the clustering in both directions as we progress through the items list. This means we only have to make a single pass through the list. The table below depicts how we progress through the item list computing from the item we are currently working on forward to the end of the item list. This works because the co-occurring and MeSH tree

relationship lists should always be symmetrical (e.g., if we have an entry A|B we also have an entry B|A) as defined by the UMLS Metathesaurus (see section entitled "UMLS Metathesaurus Files").

	0	1	2		86	87	88
0							
1	*						
2	*	*					
	*	*	*				
86	*	*	*	*			
87	*	*	*	*	*		
88	*	*	*	*	*	*	

Figure 2: Picture of how we traverse the item list for clustering

The results of the clustering process are compartmented into co-occurring terms (cot) and MeSH tree relationship terms. The MeSH tree relationships are again compartmented into PAR/CHD/SIB (treerel) and then RN/RB/RO (othrel) (see section entitled "Related Concepts (File = MRREL)" for definitions).

3.5.1. Overview of Steps for Clustering

- For every item (i) in our summarized and term weighted list we do the following:
 - 1. For every item remaining (k) in our list ahead of i (e.g., i + 1 to n), we do the following:
 - 1) Retrieve the CUIs for item[i] and item[k]
 - 2) See if we have a co-occurring match of the item[i] and item[k] CUIs. If we do,
 - i. Add an entry into item[i]'s cot list containing item[k]'s concept name, normalized frequency, and TermWeight.
 - ii. Verify that we have the symmetrical co-occurring match of the item[k] and item[i] CUIs and add an entry into item[k]'s cot list containing item[i]'s concept name, normalized frequency, and TermWeight. Note: We might not have a match since we have removed some of the really low normalized frequency count items.
 - 3) See if we have a MeSH tree relationship match of the item[*i*] and item[*k*] CUIs. If we do, then for each match we have (**Note:** *there can be multiple MeSH tree relationship results*) do the following:
 - i. Retrieve the relationship information from the match result and then:
 - ii. If the relationship is Parent, Child, or Sibling (PAR/CHD/SIB) then:
 - 1. Add an entry into item[*i*]'s treerel list containing item[*k*]'s concept name, normalized frequency, and TermWeight.
 - 2. Add the symmetrical entry by adding an entry into item[*k*]'s treerel list containing item[*i*]'s concept name, normalized frequency, and TermWeight.

- iii. If the relationship is Broader, Narrower, or Other (RN/RB/RO) then:
 - 1. Add an entry into item[*i*]'s othrel list containing item[*k*]'s concept name, normalized frequency, and TermWeight.
 - Add the symmetrical entry by adding an entry into item[k]'s other list containing item[i]'s concept name, normalized frequency, and TermWeight.

3.5.2. Example of Clustering

In this example, we continue using our example concept "Blood Flow Velocity". Here we are showing the effects of the clustering on our concept. We have tied each of the example steps below to the steps described in the overview above by adding notations at the beginning of each line (e.g., (2.i) means step 2.i as described in the overview section). The first entry in the example below (mt_table[3] ...) which is highlighted and annotated provides us with a good look at all of the aspects of the clustering process. "Blood Circulation Time"

- 1) We have an item that does not co-occur with and doesn't relate to in "Radionuclide Imaging",
- 2) We have an item that does co-occur with in "Blood Flow Velocity",
- 3) The "Blood Flow Velocity" item is not symmetrical since the inverse pairing was removed from the co-occurring table due to it's small normalized frequency count ("NOT FOUND"),
- 4) The "Blood Flow Velocity" item is related via the MeSH tree structure as a relationship other than synonymous, narrower, or broader (RO),
- 5) The "Blood Flow Velocity" item is related via the MeSH tree structure as a sibling (SIB),
- 6) Finally, the "Blood Flow Velocity" item shows how we are handling both directions in the single pass of clustering. The symmetrical entry for the "Blood Flow Velocity" item is automatically added here and doesn't need to be reviewed when we get to it later on.

```
(2.i) Co-Occurring Normalized Frequency: 0.0014
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0007
   (3) No MeSH Tree Related Terms Found
(k) mt_table[19]: Tomography, Emission-Computed
   (2.i) Co-Occurring Normalized Frequency: 0.0007
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: NOT FOUND
   (3) No MeSH Tree Related Terms Found
(k) mt_table[29]: Brain
   (2.i) Co-Occurring Normalized Frequency: 0.0072
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: NOT FOUND
   (3) No MeSH Tree Related Terms Found
(k) mt_table[33]: Homeostasis
   (2.i) Co-Occurring Normalized Frequency: 0.0012
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0007
   (3) No MeSH Tree Related Terms Found
(k) mt table[35]: Craniocerebral Trauma
   (2.i) Co-Occurring Normalized Frequency: 0.0010
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0006
   (3) No MeSH Tree Related Terms Found
(k) mt_table[40]: Blood Vessels
   (2.i) Co-Occurring Normalized Frequency: 0.0067
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0048
   (3) No MeSH Tree Related Terms Found
(k) mt_table[41]: Vascular Diseases
   (2.i) Co-Occurring Normalized Frequency: 0.0012
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0009
   (3) No MeSH Tree Related Terms Found
(k) mt_table[46]: Cerebrovascular Circulation
   (2.i) Co-Occurring Normalized Frequency: 0.0244
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0046
   (3) No MeSH Tree Related Terms Found
(k) mt_table[47]: Gestational Age
   (2.i) Co-Occurring Normalized Frequency: 0.0005
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0005
   (3) No MeSH Tree Related Terms Found
(k) mt_table[48]: Infant, Premature
   (2.i) Co-Occurring Normalized Frequency: 0.0017
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0005
   (3) No MeSH Tree Related Terms Found
(k) mt table[50]: Brain Ischemia
   (2.i) Co-Occurring Normalized Frequency: 0.0012
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: NOT FOUND
   (3) No MeSH Tree Related Terms Found
(k) mt_table[52]: Intracranial Pressure
   (2.i) Co-Occurring Normalized Frequency: 0.0012
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0014
   (3) No MeSH Tree Related Terms Found
(k) mt_table[53]: Oxygen
   (2.i) Co-Occurring Normalized Frequency: 0.0043
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0005
   (3) No MeSH Tree Related Terms Found
(k) mt_table[55]: Heart Rate
   (2.i) Co-Occurring Normalized Frequency: 0.0017
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: NOT FOUND
   (3.i) MeSH Tree Relationship: SIB
(k) mt table[61]: Umbilical Arteries
   (2.i) Co-Occurring Normalized Frequency: 0.0112
```

```
(2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0163
   (3) No MeSH Tree Related Terms Found
(k) mt_table[62]: Xenon Radioisotopes
   (2.i) Co-Occurring Normalized Frequency: 0.0005
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0041
   (3) No MeSH Tree Related Terms Found
(k) mt_table[64]: Cerebrospinal Fluid Pressure
   (2.i) Co-Occurring Normalized Frequency: 0.0005
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0027
   (3) No MeSH Tree Related Terms Found
(k) mt_table[70]: Tomography, X-Ray Computed
   (2.i) Co-Occurring Normalized Frequency: 0.0007
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: NOT FOUND
   (3) No MeSH Tree Related Terms Found
(k) mt_table[71]: Blood Pressure
   (2.i) Co-Occurring Normalized Frequency: 0.0184
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0017
   (3.i) MeSH Tree Relationship: SIB
(k) mt_table[74]: Aging
   (2.i) Co-Occurring Normalized Frequency: 0.0031
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: NOT FOUND
   (3) No MeSH Tree Related Terms Found
(k) mt_table[77]: Echoencephalography
   (2.i) Co-Occurring Normalized Frequency: 0.0024
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0061
   (3) No MeSH Tree Related Terms Found
(k) mt_table[78]: Linear Models
   (2.i) Co-Occurring Normalized Frequency: 0.0005
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0018
   (3) No MeSH Tree Related Terms Found
(k) mt_table[87]: Regional Blood Flow
   (2.i) Co-Occurring Normalized Frequency: 0.0014
   (2.ii) Co-Occurring Symmetrical Match Normalized Frequency: 0.0058
   (3.i) MeSH Tree Relationship: SIB
(k) mt_table[88]: Regression Analysis
   (2) No Co-Occurring Terms Found
   (3) No MeSH Tree Related Terms Found
```

After all of the clustering process has completed – the following list contains the cooccurrence and relationship information we have accumulated for our example. This information consists of concept name, normalized frequency, and TermWeight for each item clustered together with our term.

```
mt_table[5]: Blood Flow Velocity C0005798 0 1.6625
       cot[0]: Infant, Newborn normfreg: 0.0014 termweight: 0.9240
       cot[1]: Tomography, Emission-Computed normfreq: 0.0007 termweight: 0.4136
       cot[2]: Brain normfreq: 0.0072 termweight: 1.1118
       cot[3]: Homeostasis normfreq: 0.0012 termweight: 0.4327
       cot[4]: Craniocerebral Trauma normfreq: 0.0010 termweight: 0.2316
       cot[5]: Blood Vessels normfreq: 0.0067 termweight: 0.0105
       cot[6]: Vascular Diseases normfreq: 0.0012 termweight: 0.0105
       cot[7]: Cerebrovascular Circulation normfreq: 0.0244 termweight: 2.1469
       cot[8]: Gestational Age normfreq: 0.0005 termweight: 0.3901
       cot[9]: Infant, Premature normfreq: 0.0017 termweight: 0.4203
       cot[10]: Brain Ischemia normfreq: 0.0012 termweight: 0.8588
cot[11]: Intracranial Pressure normfreq: 0.0012 termweight: 0.5694
       cot[12]: Oxygen normfreq: 0.0043 termweight: 0.3911
       cot[13]: Heart Rate normfreq: 0.0017 termweight: 0.1768
       cot[14]: Umbilical Arteries normfreq: 0.0112 termweight: 0.1768
cot[15]: Xenon Radioisotopes normfreq: 0.0005 termweight: 0.3425
       cot[16]: Cerebrospinal Fluid Pressure normfreq: 0.0005 termweight: 0.2144
```

```
cot[17]: Tomography, X-Ray Computed normfreq: 0.0007 termweight: 0.3767
cot[18]: Blood Pressure normfreq: 0.0184 termweight: 0.1659
cot[19]: Aging normfreq: 0.0031 termweight: 0.1657
cot[20]: Echoencephalography normfreq: 0.0024 termweight: 0.1657
cot[21]: Linear Models normfreq: 0.0005 termweight: 0.1657
cot[22]: Regional Blood Flow normfreq: 0.0014 termweight: 0.1651

treerel[0]: Blood Circulation Time rel: SIB termweight: 1.1564
treerel[1]: Heart Rate rel: SIB termweight: 0.1659
treerel[2]: Blood Pressure rel: SIB termweight: 0.1651

othrel[0]: Blood Circulation Time rel: RO termweight: 1.1564
```

3.6. Calculating the RankScore

This is the final stage were we go through all of the information saved from the previous steps and calculate a final RankScore for each item based on the TermWeight, the normalized frequency count, and user specified constants for COT, REL, Title, and PathWeight. The formula for the RankScore is as follows:

$$RankScore = TW * \left[F * \left[1 + \sum_{j=1}^{n} (COT_j * TW_j) + \sum_{k=1}^{n} (REL * TW_k) \right] \right]$$

Equation 2 - RankScore Formula

The following table depicts the user-defined parameters we use in calculating the RankScore along with their default values:

Abbreviation	Description	Tunable by User	Default Value
COT	Factor for Co-Occurring Terms	X	10,000
REL	Factor for Tree Relationship	X	100
TW	TermWeight	-	-
F	Path Factor: If the item comes from MetaMap or Trigrams AND	-	-
	also from PubMed Related Citations $F = 2$ otherwise $F = 1$		

3.6.1. Summary of Steps for Calculating the RankScore

- 1. Set score = 1,
- 2. Compute scores for the co-occurring terms,
- 3. Add scores for the PAR/CHD/SIB MeSH tree related terms,
- 4. Add scores for the RN/RB/RO MeSH tree related terms,
- 5. Set up and factor in the Path Factor for the item based on what paths recommended the item, and
- 6. Finally, factor in the TermWeight for the item into the score.

3.6.2. Example of Calculating the RankScore

- 1. Set score = 1
- 2. For each of the co-occurring terms (cot) items we found in clustering, do the following:

```
score = score + (term's normalized frequency count * COT * term's term weight)
cot[0]: Infant, Newborn normfreq: 0.0014 termweight: 0.9240
  score = 1.0000 + (0.0014 * 10000 * 0.9240) == 14.2594
cot[1]: Tomography, Emission-Computed normfreq: 0.0007 termweight: 0.4136
  score = 14.2594 + (0.0007 * 10000 * 0.4136) == 17.2287
cot[2]: Brain normfreq: 0.0072 termweight: 1.1118
  score = 17.2287 + (0.0072 * 10000 * 1.1118) == 97.0027
cot[3]: Homeostasis normfreq: 0.0012 termweight: 0.4327
  score = 97.0027 + (0.0012 * 10000 * 0.4327) == 102.1775
cot[4]: Craniocerebral Trauma normfreq: 0.0010 termweight: 0.2316
  score 775 = 102.1775 + (0.0010 * 10000 * 0.2316) == 104.3940
cot[5]: Blood Vessels normfreq: 0.0067 termweight: 0.0105
  score = 104.3940 + (0.0067 * 10000 * 0.0105) == 105.0971
cot[6]: Vascular Diseases normfreq: 0.0012 termweight: 0.0105
  score = 105.0971 + (0.0012 * 10000 * 0.0105) == 105.2227
cot[7]: Cerebrovascular Circulation normfreq: 0.0244 termweight: 2.1469
  score = 105.2227 + (0.0244 * 10000 * 2.1469) == 628.9811
cot[8]: Gestational Age normfreq: 0.0005 termweight: 0.3901
  score = 628.9811 + (0.0005 * 10000 * 0.3901) == 630.8457
cot[9]: Infant, Premature normfreq: 0.0017 termweight: 0.4203
  score = 630.8457 + (0.0017 * 10000 * 0.4203) == 637.8818
cot[10]: Brain Ischemia normfreq: 0.0012 termweight: 0.8588
  score = 637.8818 + (0.0012 * 10000 * 0.8588) == 648.1532
cot[11]: Intracranial Pressure normfreq: 0.0012 termweight: 0.5694
  score = 648.1532 + (0.0012 * 10000 * 0.5694) == 654.9635
cot[12]: Oxygen normfreq: 0.0043 termweight: 0.3911
  score = 654.9635 + (0.0043 * 10000 * 0.3911) == 671.8002
cot[13]: Heart Rate normfreq: 0.0017 termweight: 0.1768
score = 671.8002 + (0.0017 * 10000 * 0.1768) == 674.7606
cot[14]: Umbilical Arteries normfreq: 0.0112 termweight: 0.1768
  score = 674.7606 + (0.0112 * 10000 * 0.1768) == 694.6397
cot[15]: Xenon Radioisotopes normfreq: 0.0005 termweight: 0.3425
  score = 694.6397 + (0.0005 * 10000 * 0.3425) == 696.2769
cot[16]: Cerebrospinal Fluid Pressure normfreq: 0.0005 termweight: 0.2144
  score = 696.2769 + (0.0005 * 10000 * 0.2144) == 697.3019
cot[17]: Tomography, X-Ray Computed normfreq: 0.0007 termweight: 0.3767
  score = 697.3019 + (0.0007 * 10000 * 0.3767) == 700.0068
cot[18]: Blood Pressure normfreq: 0.0184 termweight: 0.1659
  score = 700.0068 + (0.0184 * 10000 * 0.1659) == 730.5548
cot[19]: Aging normfreq: 0.0031 termweight: 0.1657
  score = 730.5548 + (0.0031 * 10000 * 0.1657) == 735.7051
cot[20]: Echoencephalography normfreq: 0.0024 termweight: 0.1657
  score = 735.7051 + (0.0024 * 10000 * 0.1657) == 739.6677
cot[21]: Linear Models normfreq: 0.0005 termweight: 0.1657
  score = 739.6677 + (0.0005 * 10000 * 0.1657) == 740.4596
cot[22]: Regional Blood Flow normfreq: 0.0014 termweight: 0.1651
  score = 740.4596 + (0.0014 * 10000 * 0.1651) == 742.8291
```

The score at the end of processing the co-occurring terms is 742.8291.

3. For each of the PAR/CHD/SIB MeSH tree related terms (treerel) items we found in clustering, do the following:

```
score = score + (term's term weight * REL)

treerel[0]: Blood Circulation Time    rel: SIB    termweight: 1.1564
    score = 742.8291 + (1.1564 * 100) == 858.4691

treerel[1]: Heart Rate    rel: SIB    termweight: 0.1768
    score = 858.4691 + (0.1768 * 100) == 876.1536

treerel[2]: Blood Pressure    rel: SIB    termweight: 0.1659
    score = 876.1536 + (0.1659 * 100) == 892.7405

treerel[3]: Regional Blood Flow    rel: SIB    termweight: 0.1651
    score = 892.7405 + (0.1651 * 100) == 909.2529
```

The score at the end of processing the PAR/CHD/SIB MeSH tree related terms is 909.2529.

4. For each of the RN/RB/RO MeSH tree related terms (othrel) items we found in clustering, do the following:

```
score = score + (term's term weight * REL)

othrel[0]: Blood Circulation Time rel: RO termweight: 1.1564
score = 909.2529 + (1.1564 * 100) == 1024.8929
```

The score at the end of processing the RN/RB/RO MeSH tree related terms is 1024.8929.

5. Set up the Path Factor for this item based on what paths recommended the item. If MetaMap or Trigram recommended the item AND the item was recommended by PubMed Related Citations, Path Factor equals two, otherwise it equals 1. MetaMap and PubMed Related Citations both recommended our example "Blood Flow Velocity" so the Path Factor is equal to two.

```
score = score * Path Factor (F)
score = 1024.8929 * 2 == 2049.7858
```

The score at the end of processing the Path Factor is 2049.7858.

6. Factor in the item's TermWeight for the final RankScore. score = score * Item's TermWeight

```
mt_table[5]: Blood Flow Velocity|C0005798|0|1.6625
score = 2049.7858 * 1.6625 == 3407.7688
```

The final RankScore at the end of processing is 3407.7688. This number than gets truncated (not rounded) to 3407.

The final summarized, clustered, and rank scored (not ordered by score at this point) will look similar to the following:

```
mt_table[0]: DNA-Binding Proteins|C0012940|1478|1.0150
mt_table[1]: Transcription Factors|C0040648|1707|1.0150
mt_table[2]: SEF1 protein|C0212321|207|1.0150
mt_table[3]: Blood Circulation Time|C0919393|2411|1.1564
mt_table[4]: Radionuclide Imaging|C0034606|260|1.1564
mt_table[5]: Blood Flow Velocity|C0005798|3407|1.6625
mt_table[6]: Neurology|C0027855|89|0.4025
. . .
mt_table[84]: Confusion|C0009676|55|0.1651
mt_table[85]: Glasgow Coma Scale|C0017594|246|0.3287
mt_table[86]: Predictive Value of Tests|C0032944|32|0.1651
mt_table[87]: Regional Blood Flow|C0034965|118|0.1651
mt_table[88]: Regression Analysis|C0034980|22|0.1651
```

4. Determining Heading Mapped to (Optional)

- ❖ Heading Mapped to (HM) information is used in three different ways in MTI.
 - 1. During the clustering process if the Medium Filtering option is selected to build a table of related terms that the Medium Filtering uses.
 - 2. During the Float Chemicals stage where the HMs for each chemical term are searched for to boost the chemical term's score.
 - 3. Used in displaying the indexing results if the user has selected the "showHMs" option.
- ❖ The list of valid HMs is created for all of the chemicals from the UMLS[®] Metathesaurus[®] MRREL (Related Concepts) file. Whenever we find a line with "|RN|", "|MSH|", and "|mapped to|" in the MRREL file, we consider it a valid link between a chemical and the Heading Mapped to. For example,

The following sample entries come from the 2005AC UMLS:

```
C0000039 | RN | C0043950 | mapped_to | MSH | MSH | | C0000039 | RN | C0216971 | isa | NDFRT | NDFRT | | C0000039 | RN | C0216971 | mapped_to | MSH | MSH | | C0000039 | RN | C0381030 | mapped to | MSH | MSH | |
```

We would ignore the second line "C0000039|RN|C0216971|isa|NDFRT|NDFRT||" since it's not a "mapped_to" line. The other lines tell us the following (remember the CUIs are in reverse position to what you might think).

```
C0043950 | 1,3-dipalmitoyl-2-phosphatidylcholine
C0216971 | colfosceril palmitate
C0381030 | DEPN 8
```

All of these have the Heading Mapped to of the UMLS concept and MeSH Heading corresponding to CUI C0000039 which is "1,2-Dipalmitoylphosphatidylcholine".

5. Boosting New Terms

At the beginning of each new MeSH Indexing year, MTI transitions to the new MeSH Indexing data set involving the MeSH Headings that will be used during the upcoming Indexing year. During this transition, there are always new terms added that haven't been used before and won't show up in the Related Citations results until later in the year when the Indexers have had time and cause to use them. So, for these new MeSH Headings, we apply a boosting factor to ensure that we do recommend them when they are found by the MetaMap MMI path. See *Appendix-J* for a complete list of New terms. Right after the clustering process has finished and we've sorted all of the entries into the newly scored order, we go through the list looking for any of the new terms and if we find one, we set the score to the highest score – 1 to ensure that we recommend it.

6. Emphasize Titles

- Uses MeSH Terms list
- ❖ Done for all MeSH Terms in the list

MeSH terms that are identified to be from the Title section of the processed text have their score boosted via the following formula:

```
score = current score + (current_score * 2)
```

7. Emphasize HSTAR (Optional)

- Uses MeSH Terms list
- ❖ Done for all MeSH Terms in the list
- Only done when user specifically requests this type of score boosting.

MeSH terms that are identified to be from one of the following MeSH tree hierarchies:

- N01 N05

 Population Characteristics [N01], Health Care Facilities, Manpower, and Services [N02],
 Health Care Economics and Organizations [N03], Health Services Administration [N04],
 Health Care Quality, Access, and Evaluation [N05]
- G02 G03 Health Occupations [G02], Environment and Public Health [G03]
- L01 Information Science [L01]

have their score boosted via the following formula:

```
score = current score + (current_score * HSTAR_FACTOR)
```

Where HSTAR_FACTOR is the multiplier specified by the user. We are currently using 20 with limited success.

8. Float Chemicals

- Uses MeSH Terms list
- ❖ Done for all MeSH Terms in the list

Make all chemical (NM) terms score greater than the highest scoring MeSH Heading Mapped to. If the term is a NM, then perform a lookup of the validHMs list to receive a set of MeSH Headings that are Mapped to (HM) this term. We then find the highest scoring HM that is associated with this NM term and set the NM term's score to the highest score plus one.

The following example illustrates how chemicals (NMs) are "floated" up in the MeSH Term list:

Example:

Given the following list after Clustering (list shows MeSH term and associated initial score):

1.	Pyrones 26688
2.	tipranavir 22812
3.	Biological Availability 2195
4.	Antacids 20988
5.	Pyridines 17301
6.	HIV Protease Inhibitors 307
7.	Food 8376
8.	Food-Drug Interactions 237
9.	Magnesium Hydroxide 1735
10.	Fasting 1598
11.	Aluminum Hydroxide 1273
12.	Protease Inhibitors 3756
13.	Administration, Oral 1048
14.	Area Under Curve 1000
15.	Indinavir 737

16. Dietary Fats|594

18.	Acetamides 510
19.	Eating 407
20.	Piperidines 381
21.	Intestinal Absorption 359
22.	Tablets 355
23.	Fats 349
24.	Tetrazoles 288
25.	Pharmacokinetics 273
26.	Butyrophenones 272
27.	Cross-Over Studies 244
28.	Drug Interactions 234
29.	Anti-Infective Agents 217
30.	Ketoprofen 209
31.	Magnesium 193
32.	Biphenyl Compounds 184

33.	Voluntary Workers 537
34.	Chromatography, High Pressure
	Liquid 162
35.	Antiviral Agents 159
36.	Analysis of Variance 151
37.	Analgesics, Non-Narcotic 149
38.	Half-Life 139
39.	Histamine H1 Antagonists 128
40.	Tromethamine 117
41.	Antihypertensive Agents 117
42.	Gastric Acidity Determination 116
43.	Absorption 112
44.	Drug Administration Schedule 109
45.	aluminum magnesium
	hydroxide 102

#2 tipranavir with initial score of 22,812:

validHMs provides the following list of Headings Mapped to (HM):

- Pyridines with a score of 17,301
- Pyrones with a score of 26,688

Final score for tipranavir becomes 26,689 (score of highest scoring Term (Pyrones|26,688) plus one.

#45 aluminum magnesium hydroxide with initial score of 102:

validHMs provides the following list of Headings Mapped to (HM):

- Aluminum Hydroxide with a score of 1,273
- Drug Combinations which is not in the list
- Magnesium Hydroxide with a score of 1,735

Final score for aluminum magnesium hydroxide becomes 1,736 (score of highest scoring Term (Magnesium Hydroxide|1,735) plus one.

9. Determine TopN Terms List

- Uses freshly sorted MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list only

We want to find the TopN MeSH Heading (MH) terms in our sorted by score list ignoring CheckTags (CT) and SubHeadings (SH) terms in the list. We are going to ignore the CTs and SHs because they are handled separately.

Example:

The user requests TopN to be 25.

- 1. If we find a CT at positions 7 and 15 in the first 25 terms, we increment TopN for each occurrence (two in this case) to make it 27.
- 2. If we than find a SH at position 26 in the list, we increment TopN by one which gives us 28.
- 3. So, the TopN that we will use for the remainder of processing is actually 28 because we want to ignore the CTs at position 7 and 15 and ignore the SH at position 26.

10. Senile Plaque/Dental Plaque Disambiguation

- Uses MeSH Treecodes to disambiguate terms.
- ❖ Done for all MeSH Terms in the list

MetaMap currently cannot distinguish between the MeSH terms "Senile Plaque" and "Dental Plaque" when it encounters the term "plaque" during processing. This is known as an ambiguity. This filtering step uses the MeSH treecodes of all the other terms (from all pathways) to help determine the context of the remainder of the text being processed which is why this disambiguation is not accomplished earlier in the "Exclusion" step. We check to see if there is any contextual evidence that we should pick Dental Plaque over Senile Plaque by reviewing the treecodes for the entire list of MeSH terms. If we find any term within A03.556.500.379 or A14.549.167 (*Dentition*), C07.465 (*Mouth Disease*), or C07.793 (*Tooth Diseases*) – except for A12.300.300 and C07.793.208.377(*Dental Plaque*) we choose Dental Plaque and remove any terms related to Senile Plaque. Otherwise, we remove all terms associated with Dental Plaque.

Note: We except A12.300.300 and C07.793.208.377 because they are the treecodes for Dental Plaque – the MeSH term we are performing the search for and we don't want to bias our review of the contextual data by counting it.

11. Medium Filtering (Optional)

- Uses MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list only.
- Only done when user specifically requests this type of term evaluation and processing.

Medium Filtering involves considering the specificity in hierarchies, retaining and removing Terms in the TopN based on their MeSH tree codes. The retaining and removing are done based on several Exceptions (see *Appendix-A*) and Heuristics (see *Appendix-B*) which are processed in the following hierarchical order for the TopN terms in the list:

- 1. Calculate word counts for each term to be used in the strcheck Exception.
- 2. Check Exemptions found in Heuristic #1 a-e, g, and then f.
- 3. Determine Exceptions 0, A-G.
- 4. Remove Terms based on Heuristic #2, #3a, #3b, #4, #5, #6, #7, #8, #9, #10 in order of Heuristic number.

12. Validate TopN Terms

- Uses MeSH Terms list.
- ❖ Done for TopN MeSH Terms in the list, which survived the Medium Filtering removal process and the MH/SH Substitution process only.

For each TopN MeSH Term which is a MH or CT the following tests are run in order with their corresponding additions of CheckTags and SubHeadings taking place when appropriate. See (*Appendix-L*) for full details on each of the lists mentioned below.

if CUI = C0042542 (Vero Cells), then add MH+ of Cercopithecus aethiops AND CT of Animals.

if CUI = C0085080 (Chinese hamster ovary cell), then add CT of Cricetinae (Hamster) AND Animals.

if CUI is in Adolescence list, then add CT of Adolescence AND CT of Humans.

if CUI is in Aged list, then add CT of Aged AND CT of Humans.

if CUI is in Animal list, then add CT of Animals.

if CUI is in Cattle list, then add CT of Cattle AND CT of Animals.

if CUI is in Cat list, then add CT of Cat AND CT of Animals.

if CUI is in Dog list, then add CT of Dog AND CT of Animals.

if CUI is in Female list, then add CT of Female.

if CUI is in Human list, then add CT of Humans.

if CUI is in Newborn list, then add CT of Infant, Newborn AND CT of Humans.

if CUI is in Male list, then add CT of Male.

if CUI is in Pregnant list, then add CT of Pregnancy AND if Female hasn't already been added, add Female.

if CUI is in Mice list and recommendation is from MetaMap, then add CT of Mice AND Animals.

if CUI is in Rats list and recommendation is from MetaMap, then add CT of Rats AND Animals.

if CUI is in Sheep list and recommendation is from MetaMap, then add MH+ of Sheep AND CT of Animals.

if CUI is in Swine list and recommendation is from MetaMap, then add MH+ of Swine AND CT of Animals.

if CUI is in United States list and recommendation is from MetaMap, then add MH+ of United States.

if Male CT not used AND this concept has a tree code found in the Male tree list, add CT of Male.

if Mice CT not used AND recommendation is from MetaMap, AND this concept has a tree code found in the Mice tree list, add CT of Mice AND add CT of Animals.

if Rat CT not used AND recommendation is from MetaMap, AND this concept has a tree code found in the Rat tree list, add CT of Rat AND add CT of Animals.

if Female CT not used AND this concept has a tree code found in the Female tree list, add CT of Female.

if Pregnancy CT not used AND this concept has a tree code found in the Pregnancy tree list, add CT of Pregnancy AND add CT of Female.

if Infant, Newborn CT not used AND this concept has a tree code found in the Newborn tree list, add CT of Infant, Newborn AND add CT of Humans.

if Animals CT not used AND this concept has a tree code found in the Animal tree list, add CT of Animals.

if Aged CT not used AND this concept has a tree code found in the Aged tree list, add CT of Aged AND add CT of Humans.

if Humans CT not used AND this concept has a tree code found in the Humans tree list, add CT of Humans.

if Cricetinae (Hamster) CT not used AND recommendation is from MetaMap, AND this concept has a tree code found in the Cricetinae (Hamster) tree list, add CT of Cricetinae (Hamster) AND add CT of Animals.

if United States MH+ not used AND this concept has a tree code found in the United States tree list, add MH+ of United States.

```
if the concept's tree code is in "G05" (Genetic Processes), "G13" (Genetic Phenomena), "G14" (Genetic Structures), "G01.273.343" (Genetics), "H01.158.273.343" (Genetics), "N02.421.308" (Genetic Services), add SH "genetics".
```

else if the concept's tree code is in "K01.316" (Ethics), "K01.752.256" (Ethics), "N05.350" (Ethics), add SH "ethics".

```
else if the concept's tree code is in "G04.610" (Immunity), "D23.050" (Antigens),
"D12.776.124.486.485.114", "D12.776.124.790.651.114", and "D12.776.377.715.548.114" (Antibodies),
add SH "immunology".
else if the concept's tree code is in "G03.850.310" (Disease Transmission), add SH "transmission".
else if the concept's tree code is in "G12.091.690.140" (Biotransformation), add SH "pharmacokinetics".
else if the concept's tree code is in "G04.185.515.880" (Viral Physiology), add SH "virology".
else if the concept's tree code is in "E01.370.350.700" (Radiography), add SH "radiography".
else if the concept's tree code is in "E01.370.384.730" (Radionuclide Imaging), add SH "radionuclide
imaging".
else if the concept's tree code is in "E01.370.350.850" (Ultrasonography), add SH "ultrasonography".
else if the concept's tree code is in "E02.815" (Radiotherapy) AND NOT in "E02.810.530" (Radiosurgery)
AND NOT in "E02.810.814" (Whole-Body Irradiation), add SH "radiotherapy".
else if the concept's tree code is in "E02.831" (Rehabilitation), add SH "rehabilitation".
else if the concept's tree code is in "E04.936" (Transplantation) AND NOT
    in "E04.936.494" (Replantation), add SH "transplantation".
else if the concept's tree code is in "E04" AND NOT in E01 (Diagnosis), add SH "surgery".
else if the concept's tree code is in "N03.219" (Economics) add SH "economics".
```

13. MH/SH Substitution

- ❖ Uses MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list, which survived the Medium Filtering removal process only.

If a Term is a MeSH Heading (MH) and there is a corresponding SubHeading (SH), only show the SubHeading Term.

- 1. First we look for a direct match in the TopN MH Terms of a SubHeading anywhere else in the list. If we find a match, we are done looking and the substitution takes place. e.g., MH of "Pharmacokinetics" becomes SH of "pharmacokinetics".
- 2. If we don't find a direct match above, we go through the supplemental MH/SH Lookup list (*Appendix-G*). If we find a match from the lookup list, the substitution takes place.

14. Add "drug therapy" SH

- Uses MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list, which survived the Medium Filtering removal process and the MH/SH Substitution process only.

When therapy (SH) has been recommended AND either: the concept's tree code is in E02.319 (*Drug Therapy*), except E02.319.703 (*Premedication*) OR a term has been exempted on account of Heuristic #1f - add SH of "drug therapy".

15. <u>Drop "physiology" & "analysis" SHs</u>

- ❖ Uses MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list, which survived the Medium Filtering removal process and the MH/SH Substitution process only.
- Remove physiology (SH) unless some term in topN is in Categories G04 or in G06-G11.
- Remove analysis (SH) unless some term in topN is in Categories D01-D25 OR in E05 (*Investigative Techniques*) OR in H01.181.341 (*Chemistry, Clinical*).

16. Add CheckTags from Text and doAgedReview (Optional)

- ❖ Uses the Title and Abstract fields from the actual text of the citation.
- ❖ Done for all CheckTag substitutions found in the CheckTag Lookup list.

If a Term in the lookup list is found in the text of either the Title or the Abstract, we verify that the CheckTag has not already been added as a result and if it hasn't, we add it. Care is taken to make sure that CheckTags in the lookup table map to actual words in the text and are not part of other words.

If the user has specified the "doAgedReview" option, we also perform the following checks during the Add CheckTags phase.

- 1. If "Animals" is set, <u>we remove</u> any age related checktags ("Adolescence", "Adult", "Aged", "Child", "Infant", "Infant, Newborn").
- 2. If "Animals" is NOT set, and we have any age related checktags ("Adolescence", "Adult", "Aged", "Child", "Infant", "Infant, Newborn"), we add checktag "Humans" if it is not already specified.

17. Add Geographics from Text (Optional)

- ❖ Uses the Title and Abstract fields from the actual text of the citation.
- ❖ Done for all Geographic substitutions found in the Geographics Lookup list (*Appendix-F*).

If a Geographic Term (City/Town names) in the lookup list is found in the text of either the Title or the Abstract, we verify that the Geographic has not already been added as a result and if it hasn't, we add it. Care is taken to make sure that Geographic's in the lookup table map to actual words in the text and are not part of other words.

18. Strict Filtering (Optional)

- Uses MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list only.
- Only done when user specifically requests this type of term evaluation and processing.

Strict Filtering involves removing any item on the list not specifically recommended by both the MetaMap and PubMed Related Citations paths.

19. <u>Update Chemicals (Optional)</u>

Every Monday morning the MeSH Supplemental Concepts list is updated. We download this list and compare it to our baseline list (first of the new MeSH Indexing year). We determine which Supplemental Concepts are new, to be removed, or have been replaced. If the user has elected this option, the Update Chemicals section of the program (checkForSupChemMods) reviews the list of results MTI is going to be presenting and performs and deletions or replacements based on the most recent information. The routine also verifies that in the case of replacement, we are not creating a duplicate entry.

20. Add USA CheckTag from Text (Optional)

This review is only performed if the user has elected this option AND the "United States" CheckTag is not already present. For this review, we go through the text of the item/citation that we are processing looking for any occurrences of items on the "USAtriggers" (*Appendix-K*) list. This list contains items like "American Cancer Society" and "United States Social Security Administration".

21. Display Results

- Uses MeSH Terms list
- ❖ Done for TopN MeSH Terms in the list that have survived the Medium Filtering removal process and the MH/SH Substitution process only.

In the display results section of the program, we still have the potential of adding new terms based on items found in the entire MeSH Term list (see step 3 below). For all but Step #3 below, we only use the TopN MeSH Terms. The list below details the ordering of how we print out the final results of the MTI.

- 1. For each of the TopN Terms in the list that are "*oktoprint*" (not removed due to the filtering or substitution) and are either MH, HM, or NM we print out the result. We also apply options like *showET* (replacing MH with ET see description below) and *starMHTI* (star MHs that come title) at this stage.
- 2. Print the separator "-----"
- 3. For Terms below TopN (TopN + 1 end of list), we check to see if there might be any "Special Terms". Where "Special Terms" are terms deemed "special" by the program and include MHs that are out of the scope of our normal recommendation scoring by virtue of being scored lower than TopN. They must have a tree code that falls within one of the following trees: "Z01" [except Z01.433 (*Cities*) and Z01.586 (*Historical Geographic Locations*)], "E05.318.760.500" (*Epidemiologic Studies*), "G03.850.520.450.500" (*Epidemiologic Studies*), and "N05.715.360.775.175" (*Epidemiologic Studies*). These terms are printed using a "MH-S" denotation.
- 4. Print out Other Terms which are derived through the validation rules. These terms are printed using a "MH+" denotation (see 11. "Validate TopN Terms" for full explanation of MH+ terms).
- 5. Print out CheckTags found in the TopN and then any added through the validation process.
- 6. Print out SubHeadings found in TopN AND have a score > 200 and any added through the validation process.

21.1. showHMs Display Option

This option simply tells us to display "HM" instead of "MH" for MeSH Headings that have been identified as "Heading Mapped to" for another MeSH Heading (usually a chemical) in our list. We use this option for one of our regular processing jobs to tag HM terms so they are not displayed.

21.2. limitTitleOnly Display Option

This option is used to limit the number of recommendations the MTI system provides when a citation only has a Title field and no Abstract field and is based on the number of words found in the Title field (a word is defined as text bounded by whitespace for this option).

# of Title Words	# of Recommendations
0, 1, 2	7
3, 4	8
5, 6	10
7, 8, 9, 10	11
11, 12, 13, 14	12
15, 16, 17, 18	13
19, 20, 21	14
> 21	13

21.3. RSfilterTO Display Option

This option is used in conjunction with the "**limitTitleOnly**" option to further refine the number of recommendations that are presented when we only have a Title field. If the rank of the term is >= 10 and the score is < 190, we stop providing recommendations. This is mainly used in longer title only situations since the "**limitTitleOnly**" sets a smaller limit until the number of words is more than six.

21.4. limitPTs Display Option

This option is used to limit the number of recommendations the MTI system provides when a citation has been identified as coming from particular Publication Types like "Review" or "Editorial" (see Appendix-N for complete list). If there is one or more "PT -" fields in a citation that we are processing, at least one of them appears in our special Publication Type list, and the user has specified the "limitPTs" display option, we limit the number of recommendations provided based on each special Publication Type.

21.5. showETs Display Option

This option determines whether we display an Entry Term (ET) for a given MeSH Heading (MH). This only works with MetaMap-provided terms since MetaMap marks when a term is found in the Title or Abstract and provides us with information detailing what triggered the term and where the trigger was located. The following all have to be true before we can continue:

- 1. The user has to have specified the "showETs" option.
- 2. The MeSH Heading must have at least one valid Entry Term identified by MetaMap as a trigger for the MeSH Heading. If we don't have a valid Entry Term for the MeSH Heading, we simply display the MeSH Heading.

Once these conditions exist, we then have to review the following rules:

- 1. If the MeSH Heading was found in the Title, it was specified directly from MetaMap, and not derived via the Restrict to MeSH process we display the original MeSH Heading.
- 2. If the MeSH Heading (directly from MetaMap) was found only in the Abstract and a valid Entry Term for this MeSH Heading was also only found in the Abstract, we keep the original MeSH Heading.
- 3. If the MeSH Heading (directly from MetaMap) was found only in the Abstract and a valid Entry Term for this MeSH Heading was found in the Title, we make the substitution and display the Entry Term.
- 4. If the MeSH Heading was derived via Restrict to MeSH instead of coming directly from MetaMap we make the substitution and display the Entry Term.

When we substitute the Entry Term for the MeSH Heading, we display the first Entry Term identified by MetaMap.

The following example illustrates the different set of recommendations provided with and without the "showETs" option set. The side with the option set also illustrates the process of going through the conditions and rules before decisions are made. The example consists of a real citation found in PubMed and then modified slightly to illustrate the "showETs" option.

PMID-99999999

TI - Cross-species retroviral transmission from macaques to human beings.

AB - Cross-species transmission of simian foamy virus (SFV) to human beings from chimpanzees, baboons, and African green monkeys has been described. Although macaques are the non-human primate most often handled in research, human infection with SFV from macaques has not been reported. Two of 46 primate-facility workers tested positive for antibodies that reacted with an immunoblot that contained macaque foamy virus antigens. Phylogenetic assessment of a 96-bp fragment of amplified proviral DNA isolated from peripheral-blood mononuclear cells from one infected individual was consistent with SFV infection of macaque origin. Frequent use of macaques in biomedical research, and identification of persistent retroviral infection from macaques to human beings, could have implications for public-health policy and occupational health and safety. We performed this evaluation using a critique, and an evaluation methodology using measures of theoretical effectiveness.

Without showETs Option	With showETs Option
*Macaca C0024398 29574 MH TI MM;RC	*Macaques C0024398 29574 ET
Spumavirus C0080180 9075 MH AB MM;RC	Replaces "Macaca" - Alternative(s) (Macaque) TI MM;RC
Cercopithecus aethiops C0007754 6371 MH AB MM;RC	Simian Foamy Virus C0080153 9075 ET
*Retroviridae C0035366 4026 MH TI MM;RC	Replaces "Spumavirus" - Alternative(s) (Foamy Virus) AB MM;RC
Papio C0030362 3951 MH AB MM;RC	Monkey, African Green C1022339 6371 ET
Retroviridae Infections C0035369 3151 MH AB MM;RC	Replaces "Cercopithecus aethiops" AB MM;RC
Simian T-lymphotropic virus 1 C0038344 1610 MH RC	*Retroviridae C0035366 4026 MH TI MM;RC
Pan troglodytes C0008111 1429 MH AB MM;RC	Baboons C0030362 3951 ET Replaces "Papio" AB MM;RC
Primates C0033147 1162 MH AB MM;RC	Retroviridae Infections C0035369 3151 MH AB MM;RC
Molecular Sequence Data C0026382 981 MH RC	Simian T-lymphotropic virus 1 C0038344 1610 MH RC
Monkey Diseases C0026431 981 MH RC	Chimpanzees C0008111 1429 ET Replaces "Pan troglodytes" AB MM;RC
Macaca mulatta C0024400 837 MH RC	Primates C0033147 1162 MH AB MM;RC
Base Sequence C0004793 612 MH RC	Molecular Sequence Data C0026382 981 MH RC
Deltaretrovirus Infections C0020091 529 MH RC	Monkey Diseases C0026431 981 MH RC
Gorilla gorilla C0018090 460 MH RC	Macaca mulatta C0024400 837 MH RC
DNA Primers C0206416 421 MH RC	Base Sequence C0004793 612 MH RC
Macaca nemestrina C0024401 390 MH RC	Deltaretrovirus Infections C0020091 529 MH RC
Primate Diseases C0242634 353 MH RC	Gorilla gorilla C0018090 460 MH RC
Simian Acquired Immunodeficiency	DNA Primers C0206416 421 MH RC
Syndrome C0080151 319 MH RC	Macaca nemestrina C0024401 390 MH RC
Polymerase Chain Reaction C0032520 317 MH RC	Primate Diseases C0242634 353 MH RC
Antigens, Viral C0003342 313 MH RC	Simian Acquired Immunodeficiency Syndrome C0080151 319 MH RC
Genes, pol C0017360 287 MH RC	Polymerase Chain Reaction C0032520 317 MH RC
Phylogeny C0031797 264 MH RC	Antigens, Viral C0003342 313 MH RC
Antibodies, Viral C0003253 259 MH RC	Genes, pol C0017360 287 MH RC
Amino Acid Sequence C0002518 239 MH RC	Phylogeny C0031797 264 MH RC
	Antibodies, Viral C0003253 259 MH RC
	Amino Acid Sequence C0002518 239 MH RC

Decisions

Original String: Macaca

MetaMap Triggers: ["Macaque"-ab, "Macaques"-ab, "Macaques"-ti] Replacing current term - Rule 3 (no Direct MetaMap MH found)

- -- Replace with: Macaques
- -- Alt. Replacement[0]: Macaque

Original String: Spumavirus

MetaMap Triggers: ["Simian Foamy Virus"-ab]:["Foamy Virus"-ab] Replacing current term - Rule 3 (no Direct MetaMap MH found)

- -- Replace with: Simian Foamy Virus
- -- Alt. Replacement[1]: Foamy Virus

${\bf Original\ String:}\ {\bf Cercopithecus\ aethiops}$

MetaMap Triggers: ["Monkey, African Green"-ab]

Replacing current term - Rule 3 (no Direct MetaMap MH found)

-- Replace with: Monkey, African Green

Original String: Retroviridae

MetaMap Triggers: ["Retroviral"-ti]

-- Retroviral (Title) [NOT a valid Entry Term]

Do nothing - 3) no Direct MetaMap MH found, no alternatives found!

Original String: Papio

MetaMap Triggers: ["Baboons"-ab]

Replacing current term - Rule 3 (no Direct MetaMap MH found)

-- Replace with: Baboons

Original String: Retroviridae Infections

-- Retroviral infection NOS (Abstract) [NOT a valid Entry Term]
Do nothing - 3) no Direct MetaMap MH found, no alternatives found!

Original String: Pan troglodytes

MetaMap Triggers: ["Chimpanzees"-ab]

Replacing current term - Rule 3 (no Direct MetaMap MH found)

-- Replace with: Chimpanzees

Original String: Primates

MetaMap Triggers: ["Primate, NOS"-ab]

-- Primate, NOS (Abstract) [NOT a valid Entry Term]

Do nothing - 3) no Direct MetaMap MH found, no alternatives found!

Appendix A – MTI Exceptions for Medium Filtering

- strcheck A more general term can be a term of which the term to be acted upon is a sublist. (e.g., "Life" is more general than "Quality of Life" and "Quality of Life" is more specific than "Life"). Strcheck is not used when the difference in number of words is greater than 4, or on Heuristic #7.
 - 0. When Surgery (MH) is in topN treat it as being E04 (*Surgical Procedures, Operative*) as well. (Add E04 to the tree code list for Surgery)
 - A. When a term is in E03 (*Anesthesia and Analgesia*), consider the term to be more specific than the top-level term in E02 (*Therapeutics*).
 - B. When a term is in E04 (*Surgical Procedures, Operative*) and not also in E01 (*Diagnosis*), consider the term to be more specific than the top-level term in E02 (*Therapeutics*).
 - C. When a term is in both E01 (*Diagnosis*) and E04 (*Surgical Procedures, Operative*), ignore any and all E04 tree numbers.
 - D. When a term is in both E01 (*Diagnosis*) and E05 (*Investigative Techniques*), ignore any and all E05 tree numbers.
 - E. When a term is in G01 (*Biological Sciences*) or G02 (*Health Occupations*), and also in some other subcategory, ignore any and all G01 and G02 tree numbers.
 - F. When a term is in E04 (*Surgical Procedures, Operative*), consider the term to be more specific than G02.403.810.762 (*Surgery*).
 - G. When a term has tree number G02.403.810.762 (*Surgery*) consider the term to be more specific than the top-level term in E02 (*Therapeutics*).

Appendix B – MTI Heuristics for Medium Filtering

- Heuristic #1 items to be exempted:
 - a. If the same term has been assigned by both methods, keep it.
 - b. Don't remove NMs
 - c. Don't remove SHs
 - d. Keep items in Z01 (Geographics) tree recommended by MetaMap
 - e. Keep MH items in topN that are substitutes for SHs when recommended by MetaMap only
 - f. When a term meets the following criteria, mark it as exempt:
 - 1. If we have any item in topN that is in range of D01-D25 AND NOT in range D26-D27 AND Recommended by both MM AND RC proceed,
 - 2. For each term in the topN AND in the range of D01-D25 AND in the range of D26-D27 AND not in any other categories outside of these Dnn categories AND is recommended by the RC path only, proceed for each term fitting this criteria,
 - 3. For each term, compile a list of all descendant terms in the topN that are in the range of D01-D27 AND NOT IN ANY other category including this term and find the highest scoring item in this pool of terms and mark it as exempt.
 - g. Keep CT items recommended by MetaMap only.
- Heuristic #2: For removing terms when the method is MetaMap only. Remove terms resulting from Restrict to MeSH having no Semantic Type (ST) in common with the set of Semantic Types for the concepts that were recommended by MetaMap before Restrict to MeSH was run.
- Heuristic #3 is for removing terms when the method is Related Citations only. Remove the following:
 - a. Check Tags
 - b. Z01 (Geographics)
- Heuristic #4 is for removing terms when the method is Related Citations only. Remove any term in range D01 D25 AND in range D26 D27 AND NOT in any other categories AND when MetaMap hasn't recommended any term within range D01 D25.
- Heuristic #5 is for removing terms when the method is MetaMap only. In any instance, when MM assigns a term which is more general or more specific OR RC assigns a term which is more specific, add the term to a collection of kept terms. When the collection is not empty, remove a term when it is not a member of the collection of kept terms AND the score for the term is lower than the lowest-scoring term in the collection of kept terms. The removal is not done unless the lowest_scoring term in the collection is less than 10,000.
- Heuristic #6 is for removing terms when only MetaMap recommends a term. In any instance, when both methods assign a more specific term, remove the term. **Note:** Uses Exceptions from above.
- Heuristic #7 is for removing terms when the method is Related Citations only. In every instance, when MetaMap assigns no term which is more general, remove the term. **Note:** Uses Exceptions from above.
- Heuristic #8 is for removing terms when the method is Related Citations only. In any instance, when both methods assign a more general term, remove the term. **Note:** Uses Exceptions from above.
- Heuristic #9 is for removing terms when only MetaMap recommends a term. In any instance, when there is no RC term from the same category, remove the term provided the term is not in categories H or I.
- Heuristic #10 is for removing terms when the method is MetaMap only. Remove any term which is an NM when there are no terms that are a Heading Mapped-to (HM).

Appendix C - CheckTags (2006)

CUI	Mesh Heading
C0205653	Adolescent
C0001675	Adult
C0001792	Aged
C0003062	Animals
C0007450	Cats
C0007452	Cattle
C0008059	Child
C0012984	Dogs
C0015780	Female
C0018557	Cricetinae
C0020114	Humans
C0021270	Infant
C0021289	Infant, Newborn
C0021135	In Vitro
C0024554	Male
C0026809	Mice
C0032961	Pregnancy
C0034493	Rabbits
C0034721	Rats
C0036945	Sheep
C0039005	Swine
C0041703	United States
C0026438	Cercopithecus aethiops

NOTE: We are treating Sheep, Swine, Cercopithecus, and US as CheckTags when they really aren't, but, we are using the same process to identify them.

NOTE: 2006 Hamsters becomes Cricetinae and Hamsters is an Entry Term for Cricetinae

Appendix D - Bad CheckTags List (BadCTs)

CUI	MeSH Heading
C0007320	Case Reports [Publication Type]
C0009491	Comparative Study
C0014284	English Abstract
C0038850	Research Support, Non-U.S. Gov't
C0038851	Support, U.S. Gov't, Non-P.H.S.
C0038852	Support, U.S. Gov't, P.H.S.

Appendix E – SubHeadings (2006)

CUI	Mesh SubHeading
C0000769	abnormalities
C0001555	administration & dosage
C0001688	adverse effects
C0243192	agonists
C0002776	analogs & derivatives
C1524024	analysis
C0002809	anatomy & histology
C0003139	antagonists & inhibitors
C0005572	biosynthesis
C0005768	blood
C0005839	blood supply
C0007807	cerebrospinal fluid
C0007987	chemical synthesis
C0007994	chemically induced
C0079107	chemistry
C0008903	classification
C1171258	complications
C0009678	congenital
C0079164	contraindications
C0010820	cytology
C0011155	deficiency
C0348026	diagnosis
C0011933	diagnostic use
C0012160	diet therapy
C0728866	drug effects
C0013217	drug therapy
C0013557	economics
C0013621	education
C0013943	embryology
C0014445	enzymology
C0014508	epidemiology
C0015000	ethics
C0015033	ethnology
C0015127	etiology
C0017399	genetics
C1457898	growth & development
C0019665	history
C1522005	immunology
C1510467	injuries
C0021516	innervation
C0021632	instrumentation
C0022189	isolation & purification

CUI	Mesh SubHeading
C0023242	legislation & jurisprudence
C0024752	manpower
C0025520	metabolism
C0025664	methods
C0025953	microbiology
C0026566	mortality
C0028678	nursing
C0029236	organization & administration
C0205468	parasitology
C0030657	pathogenicity
C0205469	pathology
C0031328	pharmacokinetics
C1524059	pharmacology
C0031843	physiology
C0031847	physiopathology
C0032344	poisoning
C0033107	prevention & control
C1524060	psychology
C0034526	radiation effects
C0034571	radiography
C0034607	radionuclide imaging
C0034618	radiotherapy
C0034992	rehabilitation
C1522484	secondary
C0036536	secretion
C0038137	standards
C0038209	statistics & numerical data
C0038849	supply & distribution
C0038895	surgery
C0039795	therapeutic use
C0039798	therapy
C0040539	toxicity
C0040722	transmission
C0029216	transplantation
C0040833	trends
C0175676	ultrasonography
C0041623	ultrastructure
C0042037	urine
C0042153	utilization
C0042614	veterinary
C0205466	virology

<u>Appendix F – Geographics Lookup & Substitution List (GEOs)</u>

Town/City	Country Added
Dhaka	Bangladesh
Bangkok	Thailand
Chiang Rai	Thailand
Cape Town	South Africa
Carletonville	South Africa
Durban	South Africa
Gauteng	South Africa
Johannesburg	South Africa
Kwazulu-Natal	South Africa
Lusaka	Zambia
Ndola	Zambia
Harare	Zimbabwe
Yaounde	Cameroon
Bangui	Central African Republic
Katanga	Democratic Republic of Congo
Kinshasa	Democratic Republic of Congo
Mombasa	Kenya
Nairobi	Kenya
Nyanza Province	Kenya
Dar es Salaam	Tanzania
Kagera	Tanzania
Mwanza	Tanzania
Rakai	Uganda
Kampala	Uganda
Kigali	Rwanda
Abidjan	Cote d'Ivoire
Bouake	Cote d'Ivoire
Conakry	Guinea
Lagos	Nigeria
Dakar	Senegal
Cotonou	Benin
Guangxi	China
Shanghai	China
Yunnan	China
Manila	Philippines
Bangalore	India
Calcutta	India
Chennai	India
Karnataka	India
Madurai	India
Madras	India
Maharashtra	India
Manipur	India
Pune	India
Rajasthan	India
Addis Ababa	Ethiopia

Appendix G – MH/SH Lookup & Substitution List (MHSHs)

Abnormalities Allergy and Immunology Blood Blood Blood Circulation Cerebrospinal Fluid Cerebrospinal Fluid Cerebrospinal Fluid Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Chasification Classification Cytology Cyt	MH	SH
Blood Circulation blood supply Cerebrospinal Fluid Chemistry Chemi		
Blood Circulation blood supply Cerebrospinal Fluid Chemistry Chemi		immunology
Blood Circulation Cerebrospinal Fluid Cerebrospinal Fluid Cerebrospinal Fluid Chemistry Chemistry Chemistry Chemistry Chemistry Chasification Classification Cytology Cytology Cytology Cytology Cytology Cytology Deficiency Diseases deficiency Diagnosis Diet Therapy diet therapy Disease Transmission Drug Therapy drug therapy Ceonomics Caucation Embryology Enzymes Enducation Embryology Enzymes Enzymes Enzymes Enzymes Enzymes Enzymes Enzymelogy Epidemiology Epidemiology Epidemiology Equipment and Supplies Ethnology Genetics Health Manpower History Metabolism		
Cerebrospinal Fluid Chemistry Chemistry, Analytical analysis Classification classification Cytology Deficiency Diseases Diet Therapy Disease Transmission Drug Therapy Economics Education Embryology Epidemiology Equipment and Supplies Ethnology Genetics Health Manpower History Metabolism Methods Microbiology Mortality Norolaity Norsing Nursing Care Organization and Administration Parasitology Pharmacokinetics Pharmacokinetics Pharmacology Pharmacology Pharmacology Pharmacology Pharmacology Pharmacology Physiology Pharmacology Pharbadian Radionary Radi	Blood Circulation	
Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Analytical Classification Cytology Deficiency Diseases deficiency Diagnosis Diet Therapy Disease Transmission Drug Therapy Disease Deconomics Drug Deconomics Decono		
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Transplantation transplantation Ultrasonography ultrasonography Urine urine Veterinary Medicine veterinary		therapy
Ultrasonography Urine urine Veterinary Medicine ultrasonography urine veterinary	Toxicology	toxicity
Urine urine Veterinary Medicine veterinary	Transplantation	transplantation
Veterinary Medicine veterinary	Ultrasonography	ultrasonography
		urine
Virology		veterinary
	Virology	virology
Wounds and Injuries injuries	Wounds and Injuries	injuries

<u>Appendix H – MH Exclusion List (MH_Excludes)</u>

MeSH Heading	Special
Abbreviations [Publication Type]	
Academic Dissertations [Publication Type]	
Account Books [Publication Type]	
Addresses [Publication Type]	
Advertisements [Publication Type]	
Age Groups	
Almanacs [Publication Type]	
Amino Acids, Peptides, and Proteins	
Analysis of Variance	X
Anecdotes [Publication Type]	
Anesthesia and Analgesia Animal Diseases	
Animal Diseases Animal Structures	
Animals Stuctures Animals	
Animation [Publication Type]	
Annual Reports [Publication Type]	
Anti-Inflammatory Agents	
Antineoplastic Agents	
Architectural Drawings [Publication Type]	
Atlases [Publication Type]	
Bacterial Infections and Mycoses	
Behavior and Behavior Mechanisms	
Behavioral Disciplines and Activities	
Bibliography [Publication Type]	
Biobibliography [Publication Type]	
Biochemical Phenomena, Metabolism, and Nutrition	
Biography [Publication Type]	
Biological Phenomena, Cell Phenomena, and	
Immunity	
Biopharmaceutics	
Blood Chemical Analysis Blood Physiologic Phenomena	
Blood Physiologic Processes	
Bodily Secretions	X
Body Regions	
Body Temperature Changes	
Body Weight Changes	
Bones of Upper Extremity	
Book Illustrations [Publication Type]	
Book Reviews [Publication Type]	
Bookplates [Publication Type]	
Broadsides [Publication Type]	
Carbohydrate Conformation	
Carbohydrate Sequence	
Cardiovascular Physiologic Phenomena	
Cardiovascular Physiologic Processes Caricatures [Publication Type]	
Caricatures [Publication Type] Cartoons [Publication Type]	1
Case Reports [Publication Type]	
Catalogs [Publication Type]	
Cations, Monovalent	
Causality	
Cell Membrane Structures	X
Cell Surface Extensions	X
Cells	
Cellular Structures	
Charts [Publication Type]	
Chemical Actions and Uses	
Chemical and Pharmacologic Phenomena	ļ
Chromosome Structures	
Chromosomes, Human	
Chronology [Publication Type]	I

MeSH Heading	Special
Circulatory and Respiratory Physiology	
Classical Article [Publication Type]	
Clinical Conference [Publication Type]	
Clinical Trial, Phase I [Publication Type]	
Clinical Trial, Phase II [Publication Type]	
Clinical Trial, Phase III [Publication Type]	
Clinical Trial, Phase IV [Publication Type]	
Cohort Effect	X
Collected Correspondence [Publication Type]	
Collected Works [Publication Type]	
Collections [Publication Type]	
Colloids	
Colorectal Surgery	X
Comment [Publication Type]	
Congenital, Hereditary, and Neonatal Diseases and	
Abnormalities	
Congresses [Publication Type]	
Consensus Development Conference [Publication	
Type]	
Consensus Development Conference, NIH	
[Publication Type]	
Controlled Clinical Trial [Publication Type]	
Corrected and Republished Article [Publication Type] Cytoplasmic Structures	X
Database [Publication Type]	Λ
Dental Research	
Diagnostic Imaging	X
Diaries [Publication Type]	Λ
Dictionary [Publication Type]	
Digestive, Oral, and Skin Physiology	
Directory [Publication Type]	
Disease Attributes	
Disorders of Environmental Origin	
Documentaries and Factual Films [Publication Type]	
Dosage Forms	X
Drawings [Publication Type]	
Drug Implants	
Duplicate Publication [Publication Type]	
Editorial [Publication Type]	
Embolism and Thrombosis	
Embryonic and Fetal Development	
Emulsions	
Encyclopedias [Publication Type]	
Endospore-Forming Bacteria	X
Environment and Public Health	
Enzyme Stability	
Enzymes and Coenzymes	
Ephemera [Publication Type]	
Epidemiologic Factors	X
Epidemiologic Methods	X
Epidemiologic Study Characteristics	**
Epidermolysis Bullosa	X
Essays [Publication Type]	1
Eulogies [Publication Type]	
Evaluation Studies [Publication Type]	
Examination Questions [Publication Type]	
Exhibitions [Publication Type]	
Eye Manifestations	
Female Genital Diseases and Pregnancy	
Complications Factschrift [Publication Type]	
Festschrift [Publication Type]	
Fictional Works [Publication Type]	

MeSH Heading	Special
Fluids and Secretions	Бресии
Food and Beverages	
Forms [Publication Type]	
Funeral Sermons [Publication Type]	**
Fungi, Unclassified Genes	X
Genetic Phenomena	
Genetic Processes	
Genetic Structures	
Geographic Locations	
Government Publications [Publication Type]	
Gram-Negative Aerobic Bacteria	X
Gram-Negative Anaerobic Bacteria	X
Gram-Negative Anaerobic Cocci	X
Gram-Negative Anaerobic Straight, Curved, and Helical Rods	A
Gram-Negative Chemolithotrophic Bacteria	X
Gram-Positive Asporogenous Rods, Irregular	X
Gram-Positive Endospore-Forming Bacteria	X
Gram-Positive Endospore-Forming Rods	X
Gram-Positive Rods	X
Growth Substances	
Growth and Development	
Guidebooks [Publication Type]	
Handbooks [Publication Type] Health Care Economics and Organizations	
Health Care Evaluation Mechanisms	
Health Care Facilities, Manpower, and Services	
Health Care Quality, Access, and Evaluation	
Healthy Worker Effect	X
Hemic and Immune Systems	
Hemodynamic Phenomena	
Herbals [Publication Type]	
Historical Article [Publication Type]	
History, Early Modern 1451-1600 History, Modern 1601-	
Hormones, Hormone Substitutes, and Hormone	
Antagonists	
Humor [Publication Type]	
Immunity, Active	
Immunity, Mucosal	
Immunity	
Immunologic Factors	
Indexes [Publication Type]	*7
Infant, Newborn, Diseases Intervention Studies	X
Interview [Publication Type]	
Intracranial Embolism and Thrombosis	
Investigative Techniques	1
Ions	
Isomerases	
Jaw Abnormalities	X
Journal Article [Publication Type]	
Jurisprudence	
Juvenile Literature [Publication Type]	
Laboratory Manuals [Publication Type] Least-Squares Analysis	+
Lecture Notes [Publication Type]	
Lecture [Publication Type]	
Legal Cases [Publication Type]	
Legislation [Publication Type]	
Letter [Publication Type]	
Mannich Bases	
Manuscripts [Publication Type]	
Maps [Publication Type]	

MeSH Heading	Special
Matched-Pair Analysis	X
Meeting Abstracts [Publication Type]	
Mental Disorders Diagnosed in Childhood	v
Mercury Poisoning Meta-Analysis [Publication Type]	X
Microbiologic Phenomena	
Mind-Body and Relaxation Techniques	X
Molecular Mechanisms of Action	
Monitoring, Immunologic	X
Monograph [Publication Type]	
Mouth Rehabilitation	X
Multiveriete Analysis	v
Multivariate Analysis Musculoskeletal Physiologic Phenomena	X
Musculoskeletal Physiologic Processes	
Musculoskeletal, Neural, and Ocular Physiology	
Neoplasms by Histologic Type	
Neoplasms by Site	
Neurobehavioral Manifestations	
Neurologic Manifestations	
Neuromuscular Manifestations Neurotransmitter Agents	
Nevi and Melanomas	
News [Publication Type]	
Newspaper Article [Publication Type]	
Normal Distribution	X
Nucleic Acid Denaturation	
Nucleic Acids, Nucleotides, and Nucleosides	
Nurses' Instruction [Publication Type]	
Nutritional and Metabolic Diseases	
Occupational Groups Ocular Physiologic Phenomena	
Ocular Physiologic Processes	
Ointment Bases	
Oral Manifestations	
Outlines [Publication Type]	
Overall [Publication Type]	
Patents [Publication Type]	
Pathologic Processes Pathological Conditions, Signs and Symptoms	
Patient Education Handout [Publication Type]	
Periodical Index [Publication Type]	
Periodicals [Publication Type]	
Personal Narratives [Publication Type]	
Persons	
Pharmaceutical Solutions	
Pharmacologic Actions Pharmaconogies [Publication Type]	
Pharmacopoeias [Publication Type] Phrases [Publication Type]	
Physiological Effects of Drugs	
Pictorial Works [Publication Type]	
Plant Families and Groups	
Plants, Toxic	X
Popular Works [Publication Type]	
Population Characteristics	
Portraits [Publication Type]	
Posters [Publication Type] Powders	
Practice Guideline [Publication Type]	
Price Lists [Publication Type]	
Problems and Exercises [Publication Type]	
Programmed Instruction [Publication Type]	
Programs [Publication Type]	
Prospectuses [Publication Type]	
Protein Denaturation	

MeSH Heading	Special
Protein Isoforms	
Psychological Phenomena and Processes	
Publication Components [Publication Type]	
Publication Formats [Publication Type]	
Publications	
Published Erratum [Publication Type]	
Radioactive Tracers	
Radioactivity	
Random Allocation	X
Randomized Controlled Trial [Publication Type]	
Rehabilitation of Speech and Language Disorders	
Reproductive Techniques	X
Reproductive and Urinary Physiology	
Resource Guides [Publication Type]	
Respiratory Physiologic Phenomena	
Respiratory Physiologic Processes	
Retracted Publication [Publication Type]	
Retraction of Publication [Publication Type]	
Rickettsia Infections	X
Risk	
Schiff Bases	
Schizophrenia and Disorders with Psychotic Features	
Scientific Integrity Review [Publication Type]	
Sermons [Publication Type]	
Sexual and Gender Disorders	
Signs and Symptoms, Digestive	
Signs and Symptoms, Respiratory	
Signs and Symptoms	
Single-Blind Method	X
Skin Manifestations	
Skin and Connective Tissue Diseases	
Solutions	
Specialty Uses of Chemicals	
Statistics [Publication Type]	

MeSH Heading	Special
Study Characteristics [Publication Type]	
Support of Research	
Surgical Procedures, Minimally Invasive	
Surgical Procedures, Minor	X
Suspensions	
Tables [Publication Type]	
Tablets, Enteric-Coated	
Tablets	
Technical Report [Publication Type]	
Technology, Industry, and Agriculture	
Terminology [Publication Type]	
Textbooks [Publication Type]	
Therapeutic Uses	
Tissues	
Tooth Components	
Toxic Actions	
Twin Study [Publication Type]	
Unedited Footage [Publication Type]	
Union Lists [Publication Type]	
Unpublished Works [Publication Type]	
Urinary Tract Physiology	X
Urinary Tract	
Urologic and Male Genital Diseases	
Urological Manifestations	
Vaccines, Acellular	
Vaccines, Edible	
Vaccines, Marker	
Vaccines, Subunit	
Vaccines, Synthetic	
Vaccines, Virosome	
Validation Studies [Publication Type]	
Vertebrate Viruses	

<u>Appendix I – UMLS Concepts to Exclude List (CUI_Excludes)</u>

CUI	UMLS Concept
C0010957	Tissue damage
C0012634	Disease
C0015126	Etiologic agent not identified
C0026268	Mitral valve replacement NOS
C0030705	Patients
C0032782	Postnatal Care
C0076174	TEST Mixture
C0076833	container tops
C0150158	Cardiac care
C0150159	Cardiac care: acute
C0150195	Electrolyte management: hypercalcemia
C0150203	Electrolyte management: hyporatremia
C0150203	Fluid monitoring
C0150257	Hypervolemia management
C0150255	Hypothermia treatment
C0150310	Pregnancy termination care
C0184512	Stabilized
C0184513	Deteriorate
C0184796	Determination of outcome, complication avoidable,
20101770	error in judgement
C0205082	Severe
C0205102	Intrinsic
C0205164	Major
C0205172	More
C0205173	Duplicate
C0205216	Decreased
C0205217	Increased
C0205225	Primary
C0205242	Cleaved
C0205246	Generalized
C0205276	Local
C0205307	Normal
C0205322	Persistent
C0205340	Repaired
C0205353	Habitual
C0205428	Involvements
C0205447	One
C0205449	Three
C0205450	Four
C0205451	Five
C0205452	Six
C0205453	Seven
C0205454	Eight
C0220806	Chemicals
C0220938	White color
C0225508	Structure of posterior epiglottis
C0225516	Postcricoid region
C0225567	Structure of hypopharyngeal aspect of aryepiglottic
	fold
C0225573	Infraglottic space
C0225574	Structure of supraglottic space
C0225824	Structure of subendocardial myocardium
C0227155	Posterior wall of oropharynx
C0227156	lateral wall of oropharynx
C0227157	Structure of vallecula of epiglottis
C0227160	Anterior surface of epiglottis
C0227170	Structure of piriform recess
C0227174	Posterior wall of hypopharynx
C0227175	Structure of junctional region with oropharynx
C0227345	Retrocecal tissue
C0229083	Structure of periorbital tissue
C0229423	Structure of mastoid cell

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C0332509 Increased size C0332511 Decreased size C0332514 Asymmetry		
C0332514 Asymmetry		Increased size
C0332526 Abnormal thickness		
	C0332526	Abnormal thickness

CUI	UMLS Concept
C0332596	Abnormal decrease in number
C0332850	Operative site
C0333044	Posterior displacement
C0333045	Superior displacement
C0333056	Protrusion
C0333117	Retention of content
C0337004	Hot weather
C0392767	Fragmented
C0429635	Fluid output
C0429636 C0429638	Total fluid output Fluid output from drain
C0429038 C0430007	Clinical investigation
C0436484	Echocardiogram normal
C0436539	Abnormal CT scan
C0438717	[D]Transaminase raised
C0439603	Frequencies (time pattern)
C0442805	Increase
C0455142	Intravenous therapy
C0489507	FLUID OUTPUT.GASTRIC TUBE
C0489508	FLUID OUTPUT.INSENSIBLE
C0489509	FLUID OUTPUT.MISC
C0508278	Administer insulin, as prescribed
C0513124	Monitor fluid balance
C0513154	Monitor for a widening or narrowing pulse pressure
C0513186	Monitor for bradycardia
C0513229	Monitor for digitalis toxicity (e.g., report serum
	levels above therapeutic range, monitor heart rate
	and rhythm before administering dose, and monitor
00510165	for side effects), as appropriate
C0513465	Monitor hemodynamic response to the dysrhythmia
C0513483	Monitor intake/output, urine output, and daily
C0513484	weight, if appropriate Monitor intake/output, urine output, and patient
C0313484	weight, as appropriate
C0513526	Monitor maternal vital signs, as needed, based on
C0313320	amount of blood loss
C0513527	Monitor maternal vital signs, fetal heart rate, and
	uterine activity every 15 min during initiation of IV
	tocolysis
C0513689	Monitor pushing progress, fetal descent, fetal heart
	rate, and maternal vital signs, per protocol
C0513823	Monitor urine output every hour
C0513830	Monitor vital signs frequently
C0513832	Monitor vital signs per protocol or as needed
C0513952	Observe for indications of dehydration
C0514187	Perform a comprehensive urinary assessment focusing on causes of incontinence
C0515260	Record intake and output
C0515793	Set an appropriate intravenous infusion (or blood
20313173	transfusion) flow rate
C0517203	24-hour intake and output balanced
C0518609	CONSIDERATION
C0518766	Vital signs
C0521361	Digestive structure
C0521620	Dilatation of ureter
C0544294	Technetium and technetium radioisotope
C0547047	Decrease
C0600140	Does run
C0682796	alcohol withdrawal agents
C0687676	After values
C0700148	Congestion
C0740265	Acid-base disorders
C0740273	Mixed acid-base disorders
C0740289	PO2 decreased
C0740299	Blood culture positive
C0740313	Nuclear magnetic resonance imaging abnormal

CUI	UMLS Concept
C0740321	Catheterisation cardiac abnormal
C0740321	Congenital hepatobiliary anomaly
C0740334	Throat cancer
C0740359	Anion gap normal
C0740406	Incarcerated hernia
C0740400 C0740422	Fundus
C0740422 C0740465	Holter monitoring abnormal
C0740465 C0740466	
	Holter monitoring normal
C0740469	Increased albumin
C0861354	Infiltrating ductal breast cancer
C0740772 C0740916	ADENOCARCINOMA SEROCYSTIC ALLERGY TO INSECT STING BEE
C0740916 C0740972	ANAL CANCER SQUAMOUS CELL BIOPSIED
C0740972 C0741177	AORTIC INSUFFICIENCY TRACE
C0741177 C0741182	AORTIC STENOSIS MURMUR
C0741182	AORTIC VALVE REPLACEMENT STARR
C0/41169	EDWARD
C0741190	AORTIC VALVE THICKENED
C0741130	ARRHYTHMIA INTRAPARTUM
C0741210	ATRIAL FIBRILLATION ASYMPTOMATIC
C0741277 C0741280	ATRIAL FIBRILLATION ASTMPTOMATIC ATRIAL FIBRILLATION ETIOLOGY
CU/4120U	UNKNOWN
C0741284	ATRIAL FIBRILLATION UNCONTROLLED
C0741287	ATRIAL FIBRILLATION UNCONTROLLED ATRIAL FIBRILLATION VENTRICULAR RATE
20771207	RAPID
C0741289	ATRIAL FLUTTER CHRONIC
C0741290	ATRIAL FLUTTER HIGH GRADE BLOCK
C0741291	ATRIAL FLUTTER NEW ONSET
C0741292	Paroxysmal atrial flutter
C0741295	ATRIAL FLUTTER VARIABLE CONDUCTION
C0741296	ATRIAL SEPTAL DEFECT OSTIUM PRIMUM
C0741298	ATRIAL TACHYCARDIA MULTIFOCAL NEW
	ONSET
C0005684	BLADDER CANCER MALIGNANT
C0741594	Abnormal Bone Marrow Test Result
C0741624	BRADYCARDIA ASYMPTOMATIC
C0741625	BRADYCARDIA EPISODE
C0741627	BRADYCARDIA SYMPTOMATIC
C0741674	BREAST CANCER DUCTAL CIS
C0741800	BRONCHOGENIC CANCER
C0741817	BUN MG DL CR MG DL
C0741819	BUNDLE BRANCH BLOCK LEFT ANTERIOR
	FASCICLE
C0741821	BUNDLE BRANCH BLOCK
G0=1:000	RATE_DEPENDENT
C0741822	BUNDLE BRANCH BLOCK TRIFASICULAR
C0741904	CARDIAC ARREST WITHOUT TRAUMA
C0741912	CARDIAC CLINIC DISMISSAL
C0741916	CARDIAC DEFECT STRUCTURAL
C0741918	CARDIAC DISEASE DISK EACTOR
C0741920	CARDIAC DISEASE RISK FACTOR
C0741929	anomaly; cardiac, septal closure
C0741931 C0741936	Cardiac shadow enlarged CARDIAC VALVULAR INSUFFICIENCY
C0741937 C0741938	CARDIAC WORKUP
C0741938 C0741941	CARDIOLOGY CLINIC FOLLOW UP CARDIOMYOPATHY DECOMPENSATED
C0741941 C0741943	CARDIOMYOPATHY DILATED END STAGE
C0741945	CARDIOMYOPATHY HYPERTENSIVE
CU/+1743	DILATED
C0741948	CARDIOVASCULAR EXAM ABNORMAL
C0741348	CERVICAL CANCER IN SITU CIN III
C0742133	CERVICAL CANCER SQUAMOUS CELL
C0742133	CHEMOTHERAPY CYCLOPHOSPHAMIDE
C0742479	CNS MALIGNANCY MENINGIOMA
C0742617	COLON PERIRECTAL ABSCESS

OTT	TD 67 G G
CUI	UMLS Concept
C0742637	COLON RECTAL CANCER DUKE STAGE
C0742662	STAGEVAL COLON RECTAL MASS
C0742662 C0742665	COLON RECTAL MASS COLON RECTAL PAIN
C0742680	COLON RECTAL FAIN COLON RECTAL STRICTURE
C0742683	COLON RECTAL STRICTURE COLON RECTAL ULCER
C0742747	CONGESTIVE HEART FAILURE HIGH
C0742747	OUTPUT
C0742749	CONGESTIVE HEART FAILURE LEFT SIDED
C0742754	CONGESTIVE HEART FAILURE RECURRENT
C0742755	CONGESTIVE HEART FAILURE RIGHT SIDED
C0742756	CONGESTIVE HEART FAILURE RIGHT SIDED
	RECURRENT
C0742775	CONTRACEPTION IUD INSERTION
C0742844	CORONARY STENOSIS LAD MIDDLE
C0742846	CORONARY STENOSIS RIGHT
C0742847	CORONARY STENOSIS RIGHT LUMINAL
G0542050	IRREGULARITIES
C0742850	COUCH CHRONIC PRODUCTIVE
C0742859	COUGH CHRONIC PRODUCTIVE CRANIAL NERVE PALSY VII FACIAL
C0742884 C0742908	CRYPTOCOCCAL ANTIGEN POSITIVE
C0742908	CRYPTOCOCCAL INFECTION
20142707	DISSEMINATED
C0742912	CSF CRYPTOCOCCAL INFECTION
C0743009	DEFIBRILLATOR PLACEMENT AUTOMATIC
	TRANSVENOUS
C0743134	DIABETES MELLITUS PREGNANCY WHITE
	CLASS A2
C0743136	DIABETES MELLITUS PREGNANCY WHITE
	CLASS B
C0743158	DIALYSIS CAPD CATHETER TENCKHOFF
C0743161	DIALYSIS CAPD CATHETER TENCKHOFF PLACEMENT
C0743168	DIALYSIS PERITONEAL DIALYSIS
C0743190	DIARRHEA WITH HIV
C0743378	EAR VARICELLA ZOSTER
C0743498	ENDOCARDITIS BACTERIAL STAPH
C0743499	ENDOCARDITIS BACTERIAL STAPH AUREUS
C0743501	ENDOCARDITIS BACTERIAL SUSPECTED
C0743504	ENDOCARDITIS VALVULAR DYSFUNCTION
C0743511	ENDOMETRIAL CANCER
	ADENOCARCINOMA
C0743559	ERROR
C0743721	EYE MUSCLE WEAKNESS LATERAL RECTUS
C0743747	FACE ANGIOEDEMA
C0743808	FALLOPIAN TUBE LIGATION DESIRED
	EALLODIAN TUDE LICATION DEVEDOAT
C0743812	FALLOPIAN TUBE LIGATION REVERSAL
C0743887	fracture; femur, head
C0743887 C0743967	fracture; femur, head FETAL ULTRASOUND RESULT
C0743887 C0743967 C0743979	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE
C0743887 C0743967 C0743979 C0744096	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD
C0743887 C0743967 C0743979	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET
C0743887 C0743967 C0743979 C0744096 C0744187	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744342	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744342 C0744345	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744342 C0744345 C0744365 C0744418	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744342 C0744345 C0744365 C0744418	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION HEAD INJURY GUNSHOT WOUND
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744342 C0744345 C0744365 C0744418 C0744607 C0744709	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION HEAD INJURY GUNSHOT WOUND HEART VALVE REPLACEMENT DOUBLE
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744345 C0744365 C0744418 C0744607 C0744709 C0744832	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION HEAD INJURY GUNSHOT WOUND HEART VALVE REPLACEMENT DOUBLE HEPATITIS B CHRONIC CARRIER
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744345 C0744365 C0744418 C0744607 C0744709 C0744832 C0744854	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION HEAD INJURY GUNSHOT WOUND HEART VALVE REPLACEMENT DOUBLE HEPATITIS B CHRONIC CARRIER HEPATITIS ETIOLOGY UNKNOWN
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744345 C0744365 C0744418 C0744607 C0744709 C0744832 C0744854 C0745038	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION HEAD INJURY GUNSHOT WOUND HEART VALVE REPLACEMENT DOUBLE HEPATITIS B CHRONIC CARRIER HEPATITIS ETIOLOGY UNKNOWN HOSPITALIZATION MULTIPLE
C0743887 C0743967 C0743979 C0744096 C0744187 C0744224 C0744345 C0744365 C0744418 C0744607 C0744709 C0744832 C0744854	fracture; femur, head FETAL ULTRASOUND RESULT FEVER SUBJECTIVE FOOD ALLERGY TO SEAFOOD FORCEPS DELIVERY LOW OUTLET FRONTOETHMOID SINUSITIS GASTROSTOMY TUBE PEG PLACEMENT Placement of gastrostomy tube GENITAL HERPES SIMPLEX INFECTION GLOBULIN ELEVATED ELECTROPHORESIS GAMMA REGION HEAD INJURY GUNSHOT WOUND HEART VALVE REPLACEMENT DOUBLE HEPATITIS B CHRONIC CARRIER HEPATITIS ETIOLOGY UNKNOWN

CUI	UMLS Concept
C0745157	HYPOKINESIS GLOBAL
C0745158	HYPOKINESIS INFERIOR
C0745196	HYSTERECTOMY ABDOMINAL WITH
	SALPINGO-OOPHORECTOMY
C0745202	HYSTERECTOMY PARTIAL WITHOUT
	SALPINGO-OOPHORECTOMY
C0745435	IV CATHETER HICKMAN PLACEMENT
C0745463	IV CATHETER PORTACATH PLACEMENT
C0745472	JAUNDICE PAINLESS
C0745592 C0745633	LANGUAGE BARRIER ENGLISH SPEAKING
C0743033	LIMITED
C0745660	LARYNGEAL CANCER SQUAMOUS CELL
207 13000	INVASIVE
C0745990	LUMBAR SPINAL CORD COMPRESSION
C0746365	MALARIA RELAPSE
C0746464	MEDICAL RECORD NOT AVAILABLE
C0746518	MENSES ABNORMAL HYPERMENORRHEA
C0746520	MENSES ABNORMAL IRREGULAR
	INTERVAL
C0746521	MENSES ABNORMAL
	MENOMETRORRHAGIA
C0746523	MENSES ABNORMAL MENORRHAGIA
C0746526	PREMENOPAUSE MENGES A PRODUCAL METROPRILA CIA
C0746526 C0746541	MENSES ABNORMAL METRORRHAGIA MENTAL STATUS ALTERED
C0740341	RESPONSIVENESS DECREASED
C0746592	MITRAL ANNULUS CALCIFICATION
C0746594	MITRAL LEAFLET FLAIL
C0746595	MITRAL REGURGITATION AND MITRAL
	STENOSIS
C0746599	MITRAL REGURGITATION PREDOMINANT
C0746600	MITRAL REGURGITATION UNSTABLE
C0746601	MITRAL STENOSIS MODERATE
C0746608	MITRAL VALVE PROSTHETIC
00515555	MALFUNCTION
C0746655	MURMUR CONGENITAL
C0746669 C0746682	Generalized muscle aches MUSCULOSKELETAL INJURY TRAUMA
C0746692	MYCOBACTERIUM AVIUM COMPLEX
C0740092	CULTURE POSITIVE
C0746715	MYOCARDIAL INFARCTION ANTEROSEPTAL
	MASSIVE
C0746719	MYOCARDIAL INFARCTION LOW SUSPICION
C0746723	MYOCARDIAL INFARCTION PERIOPERATIVE
C0746725	MYOCARDIAL INFARCTION RIGHT
	VENTRICULAR
C0746726	MYOCARDIAL INFARCTION RULED OUT
C0746733	MYOCARDIAL ISCHEMIA ANTEROAPICAL
C0746735	MYOCARDIAL ISCHEMIA INFRALATERAL
C0746737	MYOCARDIAL MICROINFARCTION NASAL CONGESTION CHRONIC
C0746757 C0746800	NECK INJURY PUNCTURE WOUND
C0746853	NEUROENDOCRINE CELL CANCER
C0/40033	INVASIVE
C0746883	Febrile neutropenia
C0746963	OB GYN
C0746989	OCCUPATIONAL RELATED DISORDER
C0747083	OTITIS CHRONIC
C0747122	PACEMAKER DDD
C0747142	PAIN CRISIS ACUTE
C0747169	PALPITATION NOT PRESENT
C0747307	PATIENT REPORT
C0747375	PELVIS BORDERLINE
C0747474	PERICARDIAL EFFUSION LARGE
C0747525	PERITONITIS BACTERIAL SUBACUTE

CUI	UMLS Concept
C0747636	PLEURAL EFFUSION CHRONIC
C0747679	PNEUMONIA EXTENT BILOBAR
C0747716	PO INTAKE FOOD DEFICIENT
C0748127	PULMONARY EMBOLUS INFARCTION
C0748128	PULMONARY EMBOLUS MULTIPLE
C0748155	PULMONARY INFILTRATE PATCHY
C0748217	QUADRIPLEGIA CERVICAL SPINE
C0748342	REPRODUCTIVE
C0748390	Retroperitoneal lymphadenopathy
C0748401	RH SENSITIZED
C0748429	RIGHT HEART ENDOCARDITIS
C0748430	RIGHT VENTRICULAR HYPERTENSION
C0748636	SHELTER PLACEMENT
C0748665	SHOULDER INJURY PENETRATING WOUND
C0748714	SINUS CANCER MALIGNANT
C0748728	SINUSITIS CLINICAL
C0748757	SKIN CANCER MALIGNANT MELANOMA
	END STAGE
C0748805	SKIN LESION JANEWAY
C0749002	STERILIZATION UNDER CONSIDERATION
C0749012	STEROID DEPENDENCY
C0749099	SUBENDOCARDIAL ISCHEMIA SILENT
C0749143	SULFAMETHOXAZOLE/TRIMETHOPRIM
	ADVERSE REACTION
C0749242	SYSTOLIC MURMUR NEW ONSET
C0749246	TACHYARRHYTHMIA PAROXYSMAL
C0749251	TACHYCARDIA WITH LIMITED EXERTION
C0749307	TETRALOGY FALLOT ACYANOTIC
C0749394	THROMBOCYTOPENIA HIV RELATED
C0749612	TRACHEAL SUBGLOTTIC STENOSIS
C0749626	TRANSFUSION BLOOD MULTIPLE
C0749888	URETER URINARY OBSTRUCTION
C0750194	Non-sustained ventricular tachycardia
C0750298	VOCAL CORD LESION BENIGN
C0750323	VOMIT INTRACTABLE
C0750466	Yeast infection
C0023311	Lens implant

<u>Appendix J – New MeSH Headings List (NewTerms)</u>

C0243546 I-Acylglycerol-3-Phosphate O-Acyltransferase C0044620 I-Pyrroline-5-Carboxylate Dehydrogenase C0045869 2-Aminoadipate Transaminase C0046493 2-Oxoisovalerate Dehydrogenase (Acylating) C0047442 3-Hydroxyanthranilate 3.4-Dioxygenase C0047519 3-Isopropylmalate Dehydrogenase C0243808 3-Phosphoshikimate I-Carboxyvinyltransferase C1563742 Abdominal Fat C1306214 ACTH-Secreting Pituitary Adenoma C0101367 Actin Capping Proteins C0050633 Actin Depolymerizing Factors C0050633 Actin Depolymerizing Factors C0050633 Actin-Related Protein 2 C1565319 Actin-Related Protein 2-3 Complex C0676792 Actin-Related Protein 2-3 Complex C0676794 Actin-Related Protein 3 C0214635 Activating Transcription Factor 1 C1141625 Activating Transcription Factor 3 C0101379 Activating Transcription Factor 3 C0101379 Activating Transcription Factor 4 C1571641 Activating Transcription Factor 6 C1148798 Activating Transcription Factor 6 C1148798 Activating Transcription Factor 6 C1148798 Activating Transcription Factors C0043627 Acyl-Carrier Protein S-Acetyltransferase C0043627 Acyl-Carrier Protein S-Malonyltransferase C0056843 Adipogenesis C00389071 Adiponectin C0028754 Adiposity C0686792 Adrenarche C0051059 Alanine Dehydrogenase C0108280 alpha Catenin C0028280 alpha Catenin C0028280 Alpha Catenin C0028280 Alpha Catenin C0031031 Aminomethyltransferase C0163715 Andersen Syndrome C1563715 Andersen Syndrome C1563715 Andersen Syndrome C1563716 Aninometonate-Semialdehyde Dehydrogenase C01612 Amino-Acid N-Acetyltransferase C0311612 Aminometonate-Semialdehyde Dehydrogenase C1563715 Andersen Syndrome C1563716 Antigens, CD146 C0051594 Antigens, CD146 C0051694 Antigens, CD147 C1533645 Antigens, CD34 C0056994 Antigens, CD47 C1533645 Antigens, CD94 C1567994 Antigens, CD94 C1565399 Aquaglyceroporins	CUI	MeSH Heading
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C1567952 Aptamers, Nucleotide C1567956 Aptamers, Peptide		
C1567956 Aptamers, Peptide	C1564881	
C1565399 Aquaglyceroporins		
	C1565399	Aquaglyceroporins

CUI	MeSH Heading
C0109329	Aquaporin 1
C0213238	Aquaporin 2
C0256421	Aquaporin 3
C0292777 C0388389	Aquaporin 4 Aquaporin 5
C0388389 C0753690	Aquaporin 6
C1448506	AraC Transcription Factor
C0998133	Arcidae Arcidae
C0520509	Arm Bones
C1527440	Armadillo Domain Proteins
C0878486	Arteriolosclerosis
C1564657	Arthroplasty, Replacement, Finger
C0104203	Aryl Hydrocarbon Receptor Nuclear Translocator
C1564898	Atelidae
C0004153	Atherosclerosis
C1567976	Azulenes
C0167636	B-Cell-Specific Activator Protein
C0524737	Balaenoptera
C1456587	Bariatric Surgery
C1566543	Basic Helix-Loop-Helix Leucine Zipper
	Transcription Factors
C0288972	Basic Helix-Loop-Helix Transcription Factors
C1564867	Basic Reproduction Number
C0167220	Basic-Leucine Zipper Transcription Factors
C0296517	bcl-2 Homologous Antagonist-Killer Protein
C0219474	bcl-2-Associated X Protein
C0293686	bcl-Associated Death Protein
C0219472	bcl-X Protein
C1140552	Beluga Whale Benzaldehyde Dehydrogenase (NADP+)
C0053137 C0081737	Benzaidenyde Denydrogenase (NADP+) Benzoate 4-Monooxygenase
C1567756	Benzodioxoles
C1567965	Benzothiazoles
C1563847	Benzylammonium Compounds
C0105770	beta Catenin
C0053379	beta-Adrenergic Receptor Kinase
C0069468	beta-Alanine-Pyruvate Transaminase
C0053397	beta-Carotene 15,15'-Monooxygenase
C0245467	beta-Synuclein
C1564760	Betacyanins
C0053517	Betaine-Aldehyde Dehydrogenase
C0053518	Betaine-Homocysteine S-Methyltransferase
C0600766	Betalains
C1564763	Betaxanthins
C0531588	BH3 Interacting Domain Death Agonist Protein
C0542270	Bivalvia
C0424621	Body Fat Distribution
C1563726	Bone Density Conservation Agents
C0289417	Bone Morphogenetic Protein Receptors
C0289005	Bone Morphogenetic Protein Receptors, Type I
C0299048 C1563919	Bone Morphogenetic Protein Receptors, Type II
C0448188	Bone-Patellar Tendon-Bone Graft Bones of Lower Extremity
C0325141	Bottle-Nosed Dolphin
C1001592	Bowhead Whale
C0524448	Bowman Capsule
C0229127	Bowman Membrane
C0006370	Bulimia Nervosa
C0263957	Bunion, Tailor's
C0286958	Butyrate Response Factor 1
C0223733	Capitate Bone
C0108273	CapZ Actin Capping Protein

C0302820	CUI	MeSH Heading
C01262468 Carpal Joints C0999519 Catarrhini C0054859 Catechol 1,2-Dioxygenase C0054860 Catechol 2,3-Dioxygenase C0054861 Catechol 2,3-Dioxygenase C0364862 Catecholamine Plasma Membrane Transport Proteins C1564904 Catenins C0379710 Caveolin 1 C0538488 Caveolin 3 C008969 CCAAT-Enhancer-Binding Protein-delta C0054982 CDP-Diacylglycerol-Inositol 3-Phosphatidyltransferase C0055061 Centromere Protein B C0055961 Centromere Protein B C0055962 Cephalopoda C0007937 Chalones C1565234 Chemical Terrorism C0055970 Choline Dehydrogenase C1564655 Circulatory Arrest, Deep Hypothermia Induced C1028738 Clione C15648397 Clutch Size C1565230 Cofilin 1 C0968156 Cofilin 2 C1563921 Cold Ischemia C09540301 Complement C3 C09540301 Complement C3		
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C0252132 C0258920	Cyclin-Dependent Kinase o Cyclin-Dependent Kinase Inhibitor p15
C0292198	Cyclin-Dependent Kinase Inhibitor p18
C1529962	Cyclin-Dependent Kinase Inhibitor p19
C0288472	Cyclin-Dependent Kinase Inhibitor p21
C0169665	Cyclin-Dependent Kinase Inhibitor p27
C0296845	Cyclin-Dependent Kinase Inhibitor p57
C0919418	Cyclin-Dependent Kinase Inhibitor Proteins
C0389003	Cyclooxygenase 1
C1357054	Cyclooxygenase 2
C1257954 C0056872	Cyclooxygenase 2 Inhibitors Cysteine Dioxygenase
C0059563	Cytochrome P-450 CYP3A
C0082758	Cytokine Receptor gp130
C0057041	D-Alanine Transaminase
C0057047	D-Aspartate Oxidase
C0057072	D-Xylulose Reductase
C1228322	Decapodiformes
C1566590	Delayed Graft Function
C0259540 C1563732	Delayed Rectifier Potassium Channels Dendrimers
C1565448	Dependent Ambulation
C0113214	Desmocollins
C0251058	Desmoglein 1
C0113218	Desmoglein 2
C0113222	Desmoglein 3
C0113216	Desmogleins
C0057555 C1564906	Desmoplakins Desmosomal Cadherins
C0962546	Destrin Destrin
C0163260	Diacylglycerol O-Acyltransferase
C0259836	Diet, Carbohydrate-Restricted
C1384593	Digital Rectal Examination
C0058068	Dihydrodipicolinate Reductase
C0058087 C0311627	Dihydrolipoyllysine-Residue Acetyltransferase Dihydrouracil Dehydrogenase (NAD+)
C0058266	Dimethylglycine Dehydrogenase
C1008936	Dipsacaceae
C1563696	DNA Repair-Deficiency Disorders
C0212694	DNA-Activated Protein Kinase
C0057146	Dopamine and cAMP-Regulated Phosphoprotein
C0114838	32 Dopamine Plasma Membrane Transport Proteins
C1012296	Dreissena Dreissena
C0242339	Dyslipidemias
C1530358	E1A-Associated p300 Protein
C0146462	E2F Transcription Factors
C1384539	E2F1 Transcription Factor
C0249367	E2F2 Transcription Factor
C1529674 C0291135	E2F3 Transcription Factor E2F4 Transcription Factor
C1529676	E2F5 Transcription Factor
C0672706	E2F6 Transcription Factor
C1529677	E2F7 Transcription Factor
C1566493	Early Growth Response Protein 1
C0064419	Early Growth Response Protein 2
C1571614	Early Growth Response Protein 3
C1566492	Early Growth Response Transcription Factors
C1568245	Elastic Cartilage Endocrina Discruptors
C1568245	Endocrine Disruptors

CITIT	N. CHATA
COOSTO	MeSH Heading
C0059367	Enoyl-(Acyl-Carrier Protein) Reductase (NADPH,
C0050266	B-Specific) Enoyl-(Acyl-Carrier-Protein) Reductase (NADH)
C0059366 C0885305	
	Erigeron Erythroid Specific DNA Binding Feeters
C0059553 C0430701	Erythroid-Specific DNA-Binding Factors Esophageal pH Monitoring
	Ether-A-Go-Go Potassium Channels
C1563386	ets-Domain Protein Elk-1
C0209089	
C0143466	ets-Domain Protein Elk-4 Excitatory Amino Acid Transporter 3
C0752946	
C1564370 C1564371	Excitatory Amino Acid Transporter 4 Excitatory Amino Acid Transporter 5
C1568199	
C1308199	Fanconi Anemia Complementation Group A Protein
C0216736	Fanconi Anemia Complementation Group C
C0210730	Protein
C0965234	Fanconi Anemia Complementation Group D2
C0703234	Protein
C1568213	Fanconi Anemia Complementation Group E
21200213	Protein
C1568200	Fanconi Anemia Complementation Group F
22220200	Protein
C0664903	Fanconi Anemia Complementation Group G
	Protein
C1568214	Fanconi Anemia Complementation Group L
	Protein
C1563385	Fanconi Anemia Complementation Group
	Proteins
C0210158	Farnesyltranstransferase
C0668194	Fatty Acid Transport Proteins
C0060095	Fatty Acid-Binding Proteins
C0060224	Ferredoxin-Nitrite Reductase
C0060274	Ferrosoferric Oxide
C1563784	Fibrin Modulating Agents
C0391318	Fibroblast Growth Factor 10
C0208989	Fibroblast Growth Factor 3
C0084220	Fibroblast Growth Factor 4
C0117720	Fibroblast Growth Factor 5
C1448584	Fibroblast Growth Factor 6
C0064294	Fibroblast Growth Factor 7
C0287829	Fibroblast Growth Factor 8
C0386595	Fibroblast Growth Factor 9
C0684077	Fibrocartilage
C0524744	Fin Whale
C0223792	Finger Phalanges
C0287186	fms-Like Tyrosine Kinase 3
C0059239	Focal Adhesion Kinase 1
C0380871	Focal Adhesion Kinase 2
C1565434	Focal Adhesion Protein-Tyrosine Kinases
C1008855	Fomites
C0118111	Forkhead Transcription Factors
C0218032	Fos-Related Antigen-2
C0016658	Fractures, Bone
C1564560	Fractures, Cartilage
C0521169	Fractures, Compression
C0118036	Fragile X Mental Retardation Protein
C0950122	Frasier Syndrome
C1564903	Frizzled Receptors
C1312159	Fushi Tarazu Transcription Factors
C1571679	G Protein-Coupled Inwardly-Rectifying
	Potassium Channels
C1563380	G-Box Binding Factors
C0118522	GA-Binding Protein Transcription Factor
C0060919	GABA Plasma Membrane Transport Proteins
C0137209	gamma Catenin
C0061031	gamma-Butyrobetaine Dioxygenase
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CUI	MeSH Heading
C0753208	gamma-Synuclein
C0061093	Ganglioside Galactosyltransferase
C0868963	Gardening
C0017131	Gastric Hypothermia
C0324023	Gastropoda
C1564871	GATA Transcription Factors
C0118889	GATA1 Transcription Factor
C0118890	GATA2 Transcription Factor
C0118891	GATA3 Transcription Factor
C0214550	GATA4 Transcription Factor
C0259073	GATA5 Transcription Factor
C0259075	GATA6 Transcription Factor
C1565556	Gene Flow
C0178648	Gene Fusion
C0017340	Genes, Developmental
C0017351	Genes, Immunoglobulin Heavy Chain
C0017352	Genes, Immunoglobulin Light Chain
C1571444	Genes, Mating Type, Fungal
C1563761	Genes, Mitochondrial
C1567848	Genes, Neoplasm
C0678928	Genes, X-Linked
C0678929	Genes, Y-Linked
C1563751	Genetic Diseases, Y-Linked
C1563692	Genetic Speciation
C1563688	Genome, Helminth
C1563687	Genome, Insect
C0311907	Geranylgeranyl-Diphosphate
	Geranylgeranyltransferase
C0243650	Geranyltranstransferase
C0207072	Glial Cell Line-Derived Neurotrophic Factor
C0378357	Glial Cell Line-Derived Neurotrophic Factor
C1570754	Receptors
C1579754	Glial Cell Line-Derived Neurotrophic Factors
C0599297	Glomerular Basement Membrane
C1568869 C0061355	Glucagon Precursors Glucagon-Like Peptide 1
C0030280	Glucagon-Secreting Cells
C0061395	Glucosamine 6-Phosphate N-Acetyltransferase
C0017742	Glucose Transport Proteins, Facilitative
C0168458	Glucose Transporter Type 1
C0174602	Glucose Transporter Type 2
C0119484	Glucose Transporter Type 3
C0166441	Glucose Transporter Type 4
C0172870	Glucose Transporter Type 5
C0061415	Glucose-1-Phosphate Adenylyltransferase
C0320984	Glugea
C0061462	Glutamate Formimidoyltransferase
C1564135	Glutamate Plasma Membrane Transport Proteins
C0311654	Glutamate Synthase (NADH)
C0061471	Glutamate-5-Semialdehyde Dehydrogenase
C0061510	Glutaryl-CoA Dehydrogenase
C0537086	Glutathione S-Transferase pi
C0061552	Glycerol-3-Phosphate Dehydrogenase (NAD+)
C1450945	Glycine Decarboxylase Complex
C0062056	Glycine Decarboxylase Complex H-Protein
C0061600	Glycine Dehydrogenase
C0082731	Glycine Dehydrogenase (Decarboxylating)
C0061604	Glycine N-Methyltransferase
C0061609 C0061598	Glycine Plasma Membrane Transport Proteins Glycine Transaminase
C0061398 C0878677	Glycogen Storage Disease Type IIb
C0878677 C0596624	Glycogenolysis
C0390024 C0061634	Glycolaldehyde Dehydrogenase
C0061778	GMP Reductase
C0120105	Goosecoid Protein
20120103	

CUI	MeSH Heading
C0399496	Granulomatosis, Orofacial
C0339143	Graves Ophthalmopathy
C0296936	GRB10 Adaptor Protein
C0170953	GRB2 Adaptor Protein
C1534905 C0346302	GRB7 Adaptor Protein Growth Hormone-Secreting Pituitary Adenoma
C0340302	GTP-Binding Protein alpha Subunit, Gi2
C0061949	Guanidinoacetate N-Methyltransferase
C1571481	Guanylate Cyclase-Activating Proteins
C0061991	Guanylate Kinase
C0546297	Hallux Varus
C0560737	Hamate Bone
C0448064	Hand Bones
C0459470	Hand Joints
C0677607 C1565106	Hashimoto Disease Headache Disorders, Primary
C1565106	Headache Disorders, Frinary Headache Disorders, Secondary
C1564779	Heat-Shock Proteins, Small
C0538674	Heme Oxygenase-1
C0149707	Hemospermia
C0065110	Hepatocyte Nuclear Factor 1
C0209278	Hepatocyte Nuclear Factor 1-alpha
C0126037	Hepatocyte Nuclear Factor 1-beta
C0082859	Hepatocyte Nuclear Factor 3-alpha
C0121471	Hepatocyte Nuclear Factor 3-beta
C0121472 C0084821	Hepatocyte Nuclear Factor 3-gamma Hepatocyte Nuclear Factor 4
C0529708	Hepatocyte Nuclear Factor 6
C0872184	Hepatocyte Nuclear Factors
C0266361	Hermaphroditism, True
C0596695	Hermissenda
C1001151	Hernandiaceae
C0019551	Hinge Exons
C0210947 C1509147	Hippocalcin Histiocytoma
C0334463	Histocytoma, Malignant Fibrous
C0062773	Histone Acetyltransferases
C0062934	Homocysteine S-Methyltransferase
C0062939	Homogentisate 1,2-Dioxygenase
C0062959	Homoserine O-Succinyltransferase
C0293226	Host Cell Factor C1 HSC70 Heat-Shock Proteins
C0964863 C0299173	HSP110 Heat-Shock Proteins
C1530436	HSP20 Heat-Shock Proteins
C1527498	HSP30 Heat-Shock Proteins
C0058610	HSP40 Heat-Shock Proteins
C0215739	HSP47 Heat-Shock Proteins
C0256926	HSP72 Heat-Shock Proteins
C1002046	Hu Paraneoplastic Encephalomyelitis Antigens
C1093046 C0999806	Human papillomavirus 11 Human papillomavirus 16
C0999806 C0999807	Human papillomavirus 16 Human papillomavirus 18
C1005556	Human papillomavirus 6
C0999577	Humpback Whale
C0225362	Hyaline Cartilage
C1399870	Hydrocolpos
C0293494	Hydrogensulfite Reductase
C0063193	Hydroxypyruvate Reductase
C0857007 C0221002	Hyperbilirubinemia, Neonatal Hyperparathyroidism, Primary
C0221002 C0342185	Hyperthyroxinemia, Familial Dysalbuminemic
C0215848	Hypoxia-Inducible Factor 1
C0965644	Hypoxia-Inducible Factor 1, alpha Subunit
C0663914	I-kappa B Kinase
C0174433	Ikaros Transcription Factor

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CUI	MeSH Heading
C1563736 C1563734	Imino Furanoses Imino Pyranoses
C1563733	Imino Fyranoses Imino Sugars
C0139989	Immunoglobulin J Recombination Signal
2013/707	Sequence-Binding Protein
C1302674	Immunoglobulin Subunits
C1564138	Indoleamine-Pyrrole 2,3,-Dioxygenase
C0893445	Inhibitor of Apoptosis Proteins
C1571612	Inhibitor of Differentiation Protein 1
C1457879	Inhibitor of Differentiation Protein 2
C1566589	Inhibitor of Differentiation Proteins
C0067045	Inositol Oxygenase
C0030281	Insulin-Secreting Cells
C0063700	Interferon Regulatory Factor-1
C0063701	Interferon Regulatory Factor-2
C1510506	Interferon Regulatory Factor-3
C0666411	Interferon Regulatory Factor-7
C1564741	Interferon Regulatory Factors
C0083029	Interferon-Stimulated Gene Factor 3
C0643292	Interferon-Stimulated Gene Factor 3, alpha Subunit
C0378700	Interferon-Stimulated Gene Factor 3, gamma Subunit
C1571649	Intermediate-Conductance Calcium-Activated
	Potassium Channels
C1563739	Intra-Abdominal Fat
C1567880	Intracellular Calcium-Sensing Proteins
C1005888	Ipomoea nil
C1563704	Isocoumarins
C0064095	Isovaleryl-CoA Dehydrogenase
C0286983	Kangai-1 Protein
C1566141	KCNQ Potassium Channels KCNQ1 Potassium Channel
C0531002 C0669669	
C0669669 C0669672	KCNQ2 Potassium Channel KCNQ3 Potassium Channel
C0064319	Ketol-Acid Reductoisomerase
C0311245	Kidney Diseases, Cystic
C0022752	Knowledge Bases
C1506307	Kruppel-Like Transcription Factors
C1566012	Kv Channel-Interacting Proteins
C0294031	Kv1.1 Potassium Channel
C0297614	Kv1.2 Potassium Channel
C0290730	Kv1.3 Potassium Channel
C0299095	Kv1.4 Potassium Channel
C0295345	Kv1.5 Potassium Channel
C0528161	Kv1.6 Potassium Channel
C0064449	Kynurenine 3-Monooxygenase
C0064528	L-Amino Acid Oxidase
C0064529	L-Aminoadipate-Semialdehyde Dehydrogenase
C0064545 C0065362	L-Gulonolactone Oxidase L-Lysine 6-Transaminase
C0063362 C0317604	Lactobacillus brevis
C0317604 C0317603	Lactobacillus fermentum
C0317603	Lactobacillus helveticus
C1260937	Lactobacillus leichmannii
C0317625	Lactobacillus reuteri
C0317597	Lactobacillus rhamnosus
C1530809	Large-Conductance Calcium-Activated Potassium
C1520010	Channel alpha Subunits
C1530810	Large-Conductance Calcium-Activated Potassium
C0288250	Channel beta Subunits Large-Conductance Calcium-Activated Potassium
CU20823U	Channels
C0023334	Leontopithecus
C0023334	Leucine Dehydrogenase
C0064785	Leucine Transaminase
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CUI	MeSH Heading
C0125575	Leucine-Responsive Regulatory Protein
C0065017	Linoleoyl-CoA Desaturase
C0598783	Lipid Metabolism
C1563744	Lipogenesis
C0302603 C0075269	Liquid Crystals Lithostathine
C0073269 C0481667	Live Birth
C0599467	Loligo
C1018105	Loma
C1527521	Lymphocyte Antigen 96
C0024291	Lymphohistiocytosis, Hemophagocytic
C0125440	Lymphoid Enhancer-Binding Factor 1
C0125271	Lysosomal-Associated Membrane Protein 1
C0125272	Lysosomal-Associated Membrane Protein 2
C0065401	Lysosome-Associated Membrane Glycoproteins
C0919482 C1564870	Maf Transcription Factors Maf Transcription Factors, Large
C1564869	Maf Transcription Factors, Small
C1565054	MafB Transcription Factor
C1565056	MafF Transcription Factor
C1565055	MafG Transcription Factor
C0219484	MafK Transcription Factor
C0065559	Malate Dehydrogenase (NADP+)
C0065590	Malonate-Semialdehyde Dehydrogenase
G0256616	(Acetylating)
C0256616	Mannose-Binding Protein-Associated Serine Proteases
C1563825	Medical Order Entry Systems
C1564357	Membrane Fusion Proteins
C1563710	Membrane Transport Modulators
C0998165	Mercenaria
C0227651	Mesangial Cells
C1061676	Mesomycetozoea
C1564568	Mesomycetozoea Infections
C1563754 C1563755	Metabolic Detoxication, Phase I Metabolic Detoxication, Phase II
C0025526	Metacarpal Bones
C0173924	Methyl-CpG-Binding Protein 2
C0066394	Methylmalonate-Semialdehyde Dehydrogenase
	(Acylating)
C0026809	Mice Microbial Viability
C1563770	Microbial Viability Microphthalmia-Associated Transcription Factor
C0218694 C0524751	Minke Whale
C0596952	Mitochondrial Membranes
C1563760	Mitosis Modulators
C1565249	Mobility Limitation
C0887866	Monckeberg Medial Calcific Sclerosis
C0026481	Monoglycerides
C1563382	MSX1 Transcription Factor
C0333355 C0524582	Mucositis Mulibrey Nanism
C0524582 C0649046	Munc18 Proteins
C1007978	Murinae
C1564140	Mutant Chimeric Proteins
C1564139	Mutant Proteins
C0129377	MutS DNA Mismatch-Binding Protein
C1571621	MutS Homolog 2 Protein
C0998170	Mya
C1571619	Myeloid-Lymphoid Leukemia Protein
C0067052 C0998129	Myogenic Regulatory Factor 5 Mytilidae
C00998129 C0027144	Mytilus Mytilus
C0446373	Mytilus edulis
C0243823	N-Acylsphingosine Galactosyltransferase

CUI	MeSH Heading
C0067966	N-Ethylmaleimide-Sensitive Proteins
C1328814	Nanomedicine
C0324028	Nautilus
C0032768	Neuralgia, Postherpetic
C0168770	Neurocalcin
C0071165	Neuroendocrine Secretory Protein 7B2
C0083727	Neurogranin
C0292991	Neuronal Apoptosis-Inhibitory Protein
C1565936	Neuronal Calcium-Sensor Proteins
C1564132 C0531925	Neurotransmitter Transport Proteins Neurturin
C1531392	NF-E2 Transcription Factor
C1531372	NF-E2 Transcription Factor, p45 Subunit
C0249403	NF-E2-Related Factor 1
C0289507	NF-E2-Related Factor 2
C0132348	NF-kappa B p50 Subunit
C0905070	NF-kappa B p52 Subunit
C0213011	NFATC Transcription Factors
C0069116	NFI Transcription Factors
C0068704	Nicotinamide N-Methyltransferase
C0398791	Nijmegen Breakage Syndrome
C0068800 C0106262	Nitrate Reductase
	Nitrate Reductase (NAD(P)H)
C0068803 C0068804	Nitrate Reductase (NADH) Nitrate Reductase (NADPH)
C0669368	Nitric Oxide Synthase Type I
C1533698	Nitric Oxide Synthase Type II
C0907532	Nitric Oxide Synthase Type III
C0068815	Nitrite Reductase (NAD(P)H)
C0132800	Norepinephrine Plasma Membrane Transport
	Proteins
C0995555	Nostoc commune
C0995556	Nostoc muscorum
C1563691	Nuclear Export Signals Nuclear Factor 45 Protein
C0527520 C1530014	Nuclear Factor 45 Protein Nuclear Factor 90 Proteins
C0538205	Nuclear Receptor Coactivator 2
C1565068	Nuclear Respiratory Factor 1
C0249404	Nuclear Respiratory Factors
C0069117	Octamer Transcription Factor-1
C1442823	Octamer Transcription Factor-2
C0083838	Octamer Transcription Factor-3
C0084485	Octamer Transcription Factor-6
C1564673	Octamer Transcription Factors
C1228323	Octopodiformes Odonto genia Tymen, Squamous
C1458142 C0069416	Odontogenic Tumor, Squamous Olfactory Marker Protein
C1564391	Oncogene Fusion
C0029011	Oncogene Protein tpr-met
C0023011 C0133930	Oncogene Protein v-akt
C0069498	Oncogene Protein v-cbl
C0069499	Oncogene Protein v-crk
C1530729	Oncogene Protein v-maf
C1563738	Oncolytic Virotherapy
C0029020	Oncolytic Viruses
C1565907	Onecut Transcription Factors
C1564425 C0288422	Organogold Compounds Origin Recognition Complex
C0288422 C1568361	Orthodontic Anchorage Procedures
C0436040	Orthodontic Extrusion
C1082137	Ostrea
C1504775	Otx Transcription Factors
C0497406	Overweight
C1568405	Oviparity
C1568400	Ovoviviparity

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CUI C1564742	MeSH Heading
C1564742	Oxidoreductases Acting on Aldehyde or Oxo Group Donors
C1564780	Oxidoreductases Acting on CH-NH2 Group
C1304780	Donors
C1564768	Oxidoreductases Acting on Sulfur Group Donors
C0256083	p300-CBP Transcription Factors
C1566488	Paired Box Transcription Factors
C1300488	Pancreatic Polypeptide-Secreting Cells
C0149521	Pancreatitis, Chronic
C0997845	Pansporablastina
C1564561	Papillomavirus E7 Proteins
C1399352	Paroxysmal Hemicrania
C0135572	PAX2 Transcription Factor
C0220416	PAX7 Transcription Factor
C1571472	PAX9 Transcription Factor
C0135575	Paxillin
C0998152	Pecten
C0998144	Pectinidae
C1007878	Perna
C1563753	Phenoxypropanolamines
C1563846	Phenylammonium Compounds
C0325143	Phocoena Phocoena
C0070781	Phosphatidyl-N-Methylethanolamine N-
	Methyltransferase
C0070788	Phosphatidylethanolamine N-Methyltransferase
C0070861	Phosphoglycerate Dehydrogenase
C0250414	Phospholipase C gamma
C0070926	Phosphoribosylaminoimidazolecarboxamide
	Formyltransferase
C0070929	Phosphoribosylglycinamide Formyltransferase
C0250581	Phytochrome A
C0136976	Phytochrome B
C0068838	PII Nitrogen Regulatory Proteins
C1015328	Pinctada
C0223729	Pisiform Bone
C0071163	Pituitary Adenylate Cyclase-Activating
	Polypeptide
C1564905	Plakins
C1527504	Plakophilins
C1565660	Plant Infertility
C1564133	Plasma Membrane Neurotransmitter Transport
	Proteins
C0311705	Plastoquinol-Plastocyanin Reductase
C1135182	Platyrrhini
C0071277	Plectin
C1473312	Pleurobranchaea
C1328818	Podocytes
C0998200	Polyplacophora
C0751188	Post-Dural Puncture Headache
C0032816	Post-Traumatic Headache
C0271815	Postpartum Thyroiditis
C0173943	POU Domain Factors
C0072074	Profilins
015/0501	D + 1 G 1 1 1 1
C1563721	Protein Carbonylation
C1530216	Protein Inhibitors of Activated STAT
C1530216 C0256371	Protein Inhibitors of Activated STAT Protein Kinase C-alpha
C1530216 C0256371 C0217250	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta
C1530216 C0256371 C0217250 C0257694	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-epsilon
C1530216 C0256371 C0217250 C0257694 C0377914	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-epsilon Proto-Oncogene Protein c-ets-1
C1530216 C0256371 C0217250 C0257694 C0377914 C0072462	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-epsilon Proto-Oncogene Protein c-ets-1 Proto-Oncogene Protein c-ets-2
C1530216 C0256371 C0217250 C0257694 C0377914 C0072462 C0215060	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-epsilon Proto-Oncogene Protein c-ets-1 Proto-Oncogene Protein c-ets-2 Proto-Oncogene Protein c-fli-1
C1530216 C0256371 C0217250 C0257694 C0377914 C0072462 C0215060 C0164786	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-epsilon Proto-Oncogene Protein c-ets-1 Proto-Oncogene Protein c-ets-2 Proto-Oncogene Protein c-fli-1 Proto-Oncogene Proteins c-akt
C1530216 C0256371 C0217250 C0257694 C0377914 C0072462 C0215060 C0164786 C0248007	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-pesilon Proto-Oncogene Protein c-ets-1 Proto-Oncogene Protein c-ets-2 Proto-Oncogene Protein c-fli-1 Proto-Oncogene Proteins c-akt Proto-Oncogene Proteins c-bcl-6
C1530216 C0256371 C0217250 C0257694 C0377914 C0072462 C0215060 C0164786 C0248007 C0072449	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-epsilon Proto-Oncogene Protein c-ets-1 Proto-Oncogene Protein c-ets-2 Proto-Oncogene Protein c-fli-1 Proto-Oncogene Proteins c-akt Proto-Oncogene Proteins c-bcl-6 Proto-Oncogene Proteins c-bcr
C1530216 C0256371 C0217250 C0257694 C0377914 C0072462 C0215060 C0164786 C0248007	Protein Inhibitors of Activated STAT Protein Kinase C-alpha Protein Kinase C-delta Protein Kinase C-pesilon Proto-Oncogene Protein c-ets-1 Proto-Oncogene Protein c-ets-2 Proto-Oncogene Protein c-fli-1 Proto-Oncogene Proteins c-akt Proto-Oncogene Proteins c-bcl-6

CUI	MeSH Heading
C0072461	Proto-Oncogene Proteins c-ets
C0072463	Proto-Oncogene Proteins c-fes
C0072475	Proto-Oncogene Proteins c-fyn
C0286943	Proto-Oncogene Proteins c-hck
C0252023	Proto-Oncogene Proteins c-maf
C0127306	Proto-Oncogene Proteins c-mdm2
C0072476	Proto-Oncogene Proteins c-pim-1
C0072479	Proto-Oncogene Proteins c-ret
C0139040	Proto-Oncogene Proteins c-vav
C0072456	Proto-Oncogene Proteins c-yes
C0072500	Protoporphyrinogen Oxidase
C1530899	PTEN Phosphohydrolase
C0072798	Pyruvate Synthase
C1564495	Q-SNARE Proteins
C0288881	Qa-SNARE Proteins
C1564496	Qb-SNARE Proteins
C1564497 C0224440	Qc-SNARE Proteins Quadriceps Muscle
C1564498	R-SNARE Proteins
C0287666	Rad51 Recombinase
C0220050	Rad52 DNA Repair and Recombination Protein
C1512814	Radiotherapy, Intensity-Modulated
C0317983	Ralstonia pickettii
C0034721	Rats
C0170936	Receptor, Fibroblast Growth Factor, Type 1
C0209706	Receptor, Fibroblast Growth Factor, Type 2
C0117718	Receptor, Fibroblast Growth Factor, Type 3
C0117719	Receptor, Fibroblast Growth Factor, Type 4
C0967028	Receptor, Fibroblast Growth Factor, Type 5
C0144507	Receptor, Notch1
C0295924	Receptor, Notch2
C0082341	Receptors, Dopamine D3
C0114835	Receptors, Dopamine D4
C0114836	Receptors, Dopamine D5
C1564522	Receptors, Guanylate Cyclase-Coupled
C0065744 C0083792	Receptors, Mating Factor
C0536243	Receptors, Notch Receptors, Oxidized LDL
C1564907	Receptors, Pattern Recognition
C0084056	Receptors, Pituitary Adenylate Cyclase-Activating
20001030	Polypeptide
C0904504	Receptors, Pituitary Adenylate Cyclase-Activating
	Polypeptide, Type I
C0074129	Receptors, Scavenger
C1527495	Receptors, Vasoactive Intestinal Peptide, Type II
C1527494	Receptors, Vasoactive Intestinal Polypeptide,
	Type I
C0140116	Recoverin
C1564097	Regulatory Elements, Transcriptional
C1565489	Renal Insufficiency
C1565662 C0403447	Renal Insufficiency, Acute Renal Insufficiency, Chronic
C0403447 C0165675	Replication Factor A
C0165875	Replication Factor C
C1567329	Research Support, N.I.H., Extramural
C1567328	Research Support, N.I.H., Intramural
C0963992	Resistin
C1564995	Retinal Bipolar Cells
C0073099	Retinal Dehydrogenase
C1565000	Retinal Horizontal Cells
C0599575	Retinoblastoma-Like Protein p107
C1529719	Retinoblastoma-Like Protein p130
C0073112	Retinol O-Fatty-Acyltransferase
C0073209	Rhodopsin Kinase
C0084410	RNA Polymerase Sigma 54

CIII	M-CH H 12
CUI C1080890	MeSH Heading Salacia
C0074059	Sarcosine Dehydrogenase
C0074062	Sarcosine Oxidase
C0998139	Scapharca
C1530903	Scavenger Receptors, Class A
C1530904	Scavenger Receptors, Class B
C1530905	Scavenger Receptors, Class C
C1530906	Scavenger Receptors, Class D
C1530907	Scavenger Receptors, Class E
C1530908	Scavenger Receptors, Class F
C1527491	Selenium-Binding Proteins
C0141947	Selenoprotein P
C1531114	Selenoprotein R
C1531110	Selenoprotein W
C0074302	Selenoproteins
C1567938	SELEX Aptamer Technique
C0598107	Sepia
C0074375	Serine C-Palmitoyltransferase
C0074366	Serine O-Acetyltransferase
C0170657	Serotonin Plasma Membrane Transport Proteins
C0330741	Sesbania
C0084533	Sex-Determining Region Y Protein
C0242341	Sexual Infantilism
C1566224 C1566112	Shab Potassium Channels Shaker Superfamily of Potassium Channels
C0378533	Shal Potassium Channels
C0378333 C0391360	Shaw Potassium Channels
C0074477	Sialomucins Sialomucins
C1571580	Smad Proteins
C1325343	Smad Proteins, Inhibitory
C1566788	Smad Proteins, Receptor-Regulated
C1566789	Smad1 Protein
C0528860	Smad2 Protein
C0529120	Smad3 Protein
C1566805	Smad4 Protein
C0529859	Smad5 Protein
C1533654	Smad6 Protein
C0664910	Smad7 Protein
C1566814	Smad8 Protein
C1571638	Small-Conductance Calcium-Activated Potassium
	Channels
C0300824	SNARE Proteins
C1563711	Sodium Chloride Symporter Inhibitors
C0074782	Sodium Chloride Symporters
C1563713	Sodium Potassium Chloride Symporter Inhibitors
C0017739	Sodium-Glucose Transport Proteins Sodium-Glucose Transporter 1
C0248805 C1565154	Sodium-Glucose Transporter 1 Sodium-Glucose Transporter 2
C0074787	Sodium-Phosphate Cotransporter Proteins
C1529326	Sodium-Phosphate Cotransporter Proteins, Type I
C0629781	Sodium-Phosphate Cotransporter Proteins, Type II
C1529423	Sodium-Phosphate Cotransporter Proteins, Type
	IIa
C1529424	Sodium-Phosphate Cotransporter Proteins, Type
	IIb
C1529425	Sodium-Phosphate Cotransporter Proteins, Type
	IIc
C0961545	Sodium-Phosphate Cotransporter Proteins, Type
G04 52 2 2 2	III
C0169272	Soluble N-Ethylmaleimide-Sensitive Factor
01566000	Attachment Proteins
C1566330	Sp Transcription Factors
C0654051	Sp2 Transcription Factor
C0172659	Sp3 Transcription Factor
C0390479	Sp4 Transcription Factor
C0524760	Sperm Whale

CUI	MeSH Heading
C0143252	Sphingosine N-Acyltransferase
C0998156	Spisula
C0597505	Split-Brain Procedure
C0075086	Squalene Monooxygenase
C1564654 C0287920	STAT Transcription Factors STAT1 Transcription Factor
C0287920 C0295166	STAT1 Transcription Factor STAT2 Transcription Factor
C0253050	STAT2 Transcription Factor STAT3 Transcription Factor
C0255034	STAT4 Transcription Factor
C1121634	STAT5 Transcription Factor
C0297893	STAT6 Transcription Factor
C0075189	Stathmin
C0320127	Stenella
C0217529	Sterol Regulatory Element Binding Protein 1
C0250036	Sterol Regulatory Element Binding Protein 2
C1566548 C0595939	Sterol Regulatory Element Binding Proteins Stillbirth
C0222331	Subcutaneous Fat
C1563741	Subcutaneous Fat, Abdominal
C0075426	Succinate-Semialdehyde Dehydrogenase
C0075427	Succinate-Semialdehyde Dehydrogenase
	(NADP+)
C0762034	Succinyldiaminopimelate Transaminase
C0084679 C0038748	Sulfite Dehydrogenase Sulfite Oxidase
C0038748 C0075550	Sulfite Oxidase Sulfite Reductase (Ferredoxin)
C0075551	Sulfite Reductase (NADPH)
C1262087	SUNCT Syndrome
C1568415	Support of Research
C1564682	Suppressor of Cytokine Signaling Proteins
C0075689	Synaptosomal-Associated Protein 25
C0144255	Synaptotagmin I
C0287221 C0084697	Synaptotagmin II Synaptotagmins
C0287682	Syntaxin 1
C0671360	Syntaxin 16
C0165073	Synucleins
C0084726	T Cell Transcription Factor 1
C0039198	T-Lymphocytes, Regulatory
C0999500 C1566664	Tarsii TCF Transcription Factors
C1568272	Tendinopathy
C1564656	Ternary Complex Factors
C0320988	Thelohania
C0541746	Thiazides
C1563716	Thyroid Dysgenesis
C0584876	Toe Phalanges
C0971363 C1531274	Toll-Like Receptor 1 Toll-Like Receptor 10
C0754728	Toll-Like Receptor 2
C1313494	Toll-Like Receptor 3
C1321919	Toll-Like Receptor 4
C0966553	Toll-Like Receptor 5
C0768454	Toll-Like Receptor 6
C0971207	Toll-Like Receptor 7
C0962444 C0963057	Toll-Like Receptor 8 Toll-Like Receptor 9
C0670896	Toll-Like Receptors
C0076897	Trans-Cinnamate 4-Monooxygenase
C0436548	Transcranial Magnetic Stimulation
C0059296	Transcription Factor AP-2
C0173933	Transcription Factor Brn-3
C0173931 C0173932	Transcription Factor Brn-3A Transcription Factor Brn-3B
C0173932 C0753633	Transcription Factor Brn-3C
20100000	

CUI	MeSH Heading
C0287750	Transcription Factor CHOP
C0534164	Transcription Factor DP1
C0084828	Transcription Factor Pit-1
C0214222	Transcription Factor RelA
C0167957	Transcription Factor RelB
C0172237	Transcription Factor TFIIH
C1563722	Transient Receptor Potential Channels
C0223736	Trapezium Bone
C0223741	Trapezoid Bone
C0447834	Triangular Fibrocartilage
C1565172	Trigeminal Autonomic Cephalalgias
C1563845	Trimethyl Ammonium Compounds
C0223739	Triquetrum Bone
C0084795	Tristetraprolin
C1563693	Tritonia Sea Slug
C0147029	Tropomodulin
C1563723	TRPC Cation Channels
C1563724	TRPM Cation Channels
C1153432	TRPP Cation Channels
C0108303	TRPV Cation Channels
C0077438	Tryptophan Transaminase
C1563757	Tubulin Modulators
C0077529	Twist Transcription Factor
C1019016	Unio
C1013339	Unionidae
C0076925	Upstream Stimulatory Factors
C0077845	Uracil-DNA Glycosidase
C0524639	Urofollitropin
C0271097	Usher Syndromes
C0042266	Vaginismus
C0245866	Valine Dehydrogenase (NADP+)
C1564098	VDJ Exons
C0148339	Vesicle-Associated Membrane Protein 1
C0148340	Vesicle-Associated Membrane Protein 2
C0218159	Vesicle-Associated Membrane Protein 3
C0169582	Vesicular Acetylcholine Transport Proteins

CUI	MeSH Heading	
C0173611	Vesicular Biogenic Amine Transport Proteins	
C0969320	Vesicular Glutamate Transport Protein 1	
C0969321	Vesicular Glutamate Transport Protein 2	
C1564137	Vesicular Glutamate Transport Proteins	
C1564136	Vesicular Inhibitory Amino Acid Transport	
	Proteins	
C1529240	Vesicular Monoamine Transport Proteins	
C1564134	Vesicular Neurotransmitter Transport Proteins	
C1196682	Vetiveria	
C1568403	Viviparity, Nonmammalian	
C0753015	Voltage-Dependent Anion Channel 1	
C0753016	Voltage-Dependent Anion Channel 2	
C1506024	Voltage-Dependent Anion Channels	
C1566585	Von Hippel-Lindau Tumor Suppressor Protein	
C0272414	Wandering Spleen	
C1567664	Warm Ischemia	
C1475787	Wautersia	
C0995158	Whale, Killer	
C0325139	Whales, Pilot	
C0043152	White Heifer Disease	
C0203669	Whole Body Imaging	
C1565824	Winged-Helix Transcription Factors	
C0258432	Wiskott-Aldrich Syndrome Protein	
C1565167	Wiskott-Aldrich Syndrome Protein Family	
C0531254	Wiskott-Aldrich Syndrome Protein, Neuronal	
C0753137	Wnt Proteins	
C0072467	Wnt1 Protein	
C0164801	Wnt2 Protein	
C0043297	X Chromosome Inactivation	
C0528561	X-Linked Inhibitor of Apoptosis Protein	
C0085030	Xeroderma Pigmentosum Group A Protein	
C0168553	Xeroderma Pigmentosum Group D Protein	
C0377707	Y-Box-Binding Protein 1	
C0903890	YY1 Transcription Factor	
C0246976	ZAP-70 Protein-Tyrosine Kinase	

<u>Appendix K – Additional US Triggers List (USAtriggers)</u>

CUI	UMLS Concept
C0002455	American Cancer Society
C0002456	American Dental Association
C0002458	American Heart Association
C0002459	American Hospital Association
C0002461	American Medical Association
C0002463	American Nurses' Association
C0007670	Centers for Disease Control and Prevention (U.S.)
C0009434	Commission on Professional and Hospital Activities
C0018727	Health Planning
C0018763	Health Systems Agencies
C0018764	Health Systems Plans
C0020007	Hospitals, Federal
C0020012	Hospitals, Military
C0022405	Joint Commission on Accreditation of Healthcare Organizations
C0027446	National Academy of Sciences (U.S.)
C0027447	National Center for Health Care Technology
C0027450	National Center for Health Statistics (U.S.)
C0027454	National Health Insurance, United States
C0027456	National Health Planning Information Center
C0027463	National Institute for Occupational Safety and Health
C0027466	National Institute of Mental Health (U.S.)
C0027468	National Institutes of Health (U.S.)
C0027470	National Library of Medicine (U.S.)
C0038192	State Health Planning and Development Agencies
C0038194	State Health Plans
C0041704	United States Substance Abuse and Mental Health Services Administration
C0041711	United States Dept. of Health and Human Services
C0041712	United States Environmental Protection Agency
C0041713	United States Federal Trade Commission
C0041714	United States Food and Drug Administration
C0041718	United States Centers for Medicare and Medicaid Services
C0041720	United States Health Resources and Services Administration
C0041731	United States Occupational Safety and Health Administration
C0041732	United States Office of Economic Opportunity
C0041733	United States Office of Technology Assessment
C0041734	United States Public Health Service
C0041735	United States Department of Veterans Affairs
C0021621	Institute of Medicine (U.S.)
C0078936	American Speech-Language-Hearing Association
C0080268	United States Agency for Healthcare Research and Quality
C0085141	United States Indian Health Service
C0085291	National Practitioner Data Bank
C0085410	United States Department of Agriculture
C0206601	United States Office of Research Integrity
C0242776	United States National Aeronautics and Space Administration
C0282680	United States Social Security Administration
C0376631	Employee Retirement Income Security Act
C0600418	Patient Self-Determination Act
C0600593	Health Insurance Portability and Accountability Act

Appendix L – Lookup Lists

Adolescent (50):

1) C1137103 - Abandoned Adolescent 2) C1137103 - Abandoned Adolescents

3) C0001578 - Adolescence

4) C0205653 - Adolescent

5) C0001580 - Adolescent Behavior 6) C0001580 - Adolescent Behaviors

7) C0085100 - Adolescent Health Services

8) C0162630 - Adolescent Nutrition

9) C0162630 - Adolescent Nutritions

10) C1137103 - Adolescent, Abandoned

11) C0001588 - Adolescent, Female

12) C1138477 - Adolescent, Gifted

13) C0001585 - Adolescent, Hospitalized

14) C0001586 - Adolescent, Institutionalized

15) C0001589 - Adolescent, Male

16) C0205653 - Adolescents

17) C1137103 - Adolescents, Abandoned

18) C0001588 - Adolescents, Female

19) C1138477 - Adolescents, Gifted

20) C0001585 - Adolescents, Hospitalized

21) C0001586 - Adolescents, Institutionalized

22) C0001589 - Adolescents, Male

23) C0001580 - Behavior, Adolescent

24) C0001580 - Behaviors, Adolescent

25) C0870101 - Development, Adolescent

Adolescent Trees (2):

1) M01.060.057 - Adolescent

2) F01.145.022 - Adolescent Behavior

Adult (1):

1) C0001675 - Adult

Aged (11):

1) C0001795 - Aged, 80 and over

2) C0007667 - Centenarian

3) C0079204 - Dental Care for Aged

4) C0013772 - Elder Abuse

5) C0001792 - Elderly

6) C0079377 - Frail Elderly

7) C0018753 - Health Services for the Aged

8) C0019870 - Homes for the Aged

9) C0028296 - Nonagenarian

10) C0028829 - Octogenarian

11) C0001795 - Oldest Old

Aged Trees (1):

1) M01.060.116.100 - Aged

26) C0001588 - Female Adolescent

27) C0001588 - Female Adolescents

28) C1138477 - Gifted Adolescent

29) C1138477 - Gifted Adolescents

30) C0085100 - Health Service, Adolescent

31) C0085100 - Health Services, Adolescent

32) C0001585 - Hospitalized Adolescent

33) C0001585 - Hospitalized Adolescents

34) C0001586 - Institutionalized Adolescent

35) C0001586 - Institutionalized Adolescents

36) C0001589 - Male Adolescent

37) C0001589 - Male Adolescents

38) C0001581 - Medicine, Adolescent

39) C0162630 - Nutrition, Adolescent

40) C0162630 - Nutritions, Adolescent

41) C0032968 - Pregnancy in Adolescence

42) C0001583 - Psychiatry, Adolescent

43) C0001584 - Psychology, Adolescent

44) C0085100 - Service, Adolescent Health

45) C0085100 - Services, Adolescent Health

46) C0001578 - Teen-age

47) C0001578 - teenage

48) TxLookup - teenaged

49) TxLookup - teenager 50) C0087178 - Youths

Animals (813): 1) C0085087 - 3T3 Cells	70) C0034700 - BN Rats
2) C0000780 - Abomasum	71) C0034700 - BN Rats, Inbred
3) C0000823 - Abortion, Veterinary	72) C0006008 - Border Disease
4) C0034698 - ACI Rat	73) C0006023 - Borna Disease
5) C0034698 - ACI Rat, Inbred	74) C0007452 - Bovine
6) C0034698 - ACI Rats	75) C0002797 - Bovine Anaplasmosis
7) C0034698 - ACI Rats, Inbred	76) C0032291 - Bovine atypical interstitial pneumonia
8) C0001247 - Actinobacillosis	77) C0302363 - Bovine brucellosis
9) C0001748 - African Horse Sickness	78) C1449809 - Bovine Respiratory Disease Complex
10) C0001752 - African Swine Fever 11) C1022239 - Agapornis	79) C0006075 - Bovine Virus Diarrhea-Mucosal Disease 80) C0034694 - Brattleboro Rats
12) C0001878 - Air Sacs	81) C0302363 - Brucellosis, Bovine
13) C0025918 - AKR Mice	82) C0034701 - BUF Rat
14) C0025918 - AKR Mice, Inbred	83) C0034701 - BUF Rat, Inbred
15) C0025918 - AKR Mouse	84) C0034701 - BUF Rats
16) C0025918 - AKR Mouse, Inbred	85) C0034701 - BUF Rats, Inbred
17) C0002016 - Aleutian Mink Disease	86) C0034701 - Buffalo Rats, Inbred
18) C0002757 - Anal Gland Neoplasms	87) C0006440 - Bursa of Fabricius
19) C0002759 - Anal Sacs	88) C0025920 - C3H Mice
20) C0002797 - Anaplasmosis 21) C0003046 - Animal Communication	89) C0025920 - C3H Mice, Inbred
22) C0003047 - Animal Communication 22) C0003047 - Animal Diseases	90) C0025920 - C3H Mouse 91) C0025920 - C3H Mouse, Inbred
23) C1257925 - Animal Mammary Carcinoma	92) C0025921 - C57BL Mice
24) C1257925 - Animal Mammary Carcinomas	93) C0025921 - C57BL Mice, Inbred
25) C0024659 - Animal Mammary Gland	94) C0025921 - C57BL Mouse
26) C0024659 - Animal Mammary Glands	95) C0025921 - C57BL Mouse, Inbred
27) C0024667 - Animal Mammary Neoplasm	96) C0524515 - Canidae
28) C0024667 - Animal Mammary Neoplasms	97) C0012979 - Canine Diseases
29) C0003054 - Animal Nutrition	98) C0012984 - Canis familiaris
30) C0029954 - animal Oviduct	99) C0007098 - Carcinoma 256, Walker
31) C0003065 - Animals, Newborn 32) C0325486 - Anseriformes	100) C1257925 - Carcinoma, Animal Mammary 101) C0007122 - Carcinoma, Brown-Pearce
33) C003452 - Anters	102) C0007125 - Carcinoma, Ehrlich Tumor
34) C0242635 - Ape Diseases	103) C0007128 - Carcinoma, Krebs 2
35) C0025932 - Athymic Mice	104) C0243038 - Carcinoma, Lewis Lung
36) C0025932 - Athymic Mouse	105) C1257925 - Carcinomas, Animal Mammary
37) C0034713 - Athymic Rat	106) C0007288 - Carpus, Animal
38) C0034713 - Athymic Rats	107) C0007450 - Cat
39) C0524710 - August Rat	108) C0007350 - Cat Diseases
40) C0524710 - August Rats 41) C0010352 - Avian crop	109) C0007450 - Cat, Domestic 110) C0007450 - Cats, Domestic
42) C0016627 - Avian Flu	111) C0007450 - Cats, Bolliestic
43) C0016627 - Avian Influenza	112) C0007453 - Cattle Diseases
44) C0016627 - Avian Influenzas	113) C0085979 - Cavia
45) C0004421 - Avian Leukosis	114) C0018382 - Caviidae
46) C0004576 - Babesiosis	115) C0025922 - CBA Mice
47) C0025919 - BALB C Mice	116) C0025922 - CBA Mice, Inbred
48) C0025919 - BALB C Mice, Inbred	117) C0025922 - CBA Mouse
49) C0025919 - BALB C Mouse 50) C0025919 - BALB C Mouse, Inbred	118) C0025922 - CBA Mouse, Inbred 119) C0034703 - CDF Rat, Inbred
51) C0034699 - BB Rat	120) C0034703 - CDF Rat, Inbred
52) C0034699 - BB Rat, Inbred	121) C0206610 - CFTR Mice
53) C0034699 - BB Rats	122) C0206610 - CFTR Mice, Inbred
54) C0034699 - BB Rats, Inbred	123) C0206610 - CFTR Mouse
55) C0034699 - BB Wistar Rats	124) C0206610 - CFTR Mouse, Inbred
56) C0004895 - Beak	125) C0325773 - Charadriiformes
57) C0004935 - Behavior, Animal	126) C0008046 - Chick Embryo
58) C0019861 - Behavior, Homing	127) C0085080 - Chinese hamster ovary cell
59) C0019861 - Behaviors, Homing 60) C0004949 - Belgian Hare	128) C0018555 - Chinese Hamsters 129) C0085080 - CHO Cells
61) C0034699 - Bio Breeding Inbred Rats	130) C0019841 - Cholera, Hog
62) C0034699 - Bio-Breeding Inbred Rat	131) C0600547 - Cinnamon Rats, Long-Evans
63) C0034699 - Bio-Breeding Inbred Rats	132) C0019841 - Classical Swine Fever
64) C1136222 - Biozzi Mice	133) C0325905 - Columbiformes
65) C0005591 - Bird Diseases	134) C0009424 - Comb and Wattles
66) C0016627 - Bird Flu	135) C0600530 - Congenic Mice
67) C0005866 - Bluetongue	136) C0009990 - Copulation
68) C0034700 - BN Rat	137) C0010085 - Corpora Allata
69) C0034700 - BN Rat, Inbred	138) C0376702 - COS Cells

	200) 50005450 5 11 1
Animals continued:	208) C0007450 - Felis domestica
139) C0018557 - Cricetinae	209) C0007450 - Felis domesticus
140) C0010321 - Cricetus	210) C0007450 - Felis sylvestris catus
141) C0010352 - Crop, Avian	211) C0034703 - Fischer Rats
142) C0010418 - Cryptosporidiosis	212) C0016154 - Fish Diseases
143) C0600534 - Dahl Hypertensive Rats	213) C0016627 - Flu, Avian
144) C0600533 - Dahl Rats	214) C0016627 - Flu, Bird
145) C0600533 - Dahl Rats, Inbred 146) C0600535 - Dahl Salt Resistant Rats	215) C0016513 - Foot Rot 216) C0016514 - Foot-and-Mouth Disease
140) C0600535 - Dahl Salt Resistant Rats 147) C0600534 - Dahl Salt Sensitive Rats	217) C0016555 - Forelimb
148) C0600535 - Dahl Salt-Resistant Rats	218) C1450009 - Founder Mice, Transgenic
149) C0600534 - Dahl Salt-Resistant Rats	219) C0016627 - Fowl Plague
150) C0025923 - DBA Mice	220) C0016629 - Fowlpox
151) C0025923 - DBA Mice, Inbred	221) C0016697 - Freemartinism
152) C0025923 - DBA Mouse	222) C0328422 - Gadiformes
153) C0025923 - DBA Mouse, Inbred	223) C0328433 - Gadus morhua
154) C0011853 - Diabetes Mellitus, Experimental	224) C0325589 - Galliformes
155) C0085243 - Diabetic Mice, Non-Obese	225) C0017162 - Gastroenteritis, Transmissible, of Swine
156) C0085243 - Diabetic Mice, Nonobese	226) C0017558 - Gills
157) C0085243 - Diabetic Mouse, Non-Obese	227) C0017589 - Glanders
158) C0085243 - Diabetic Mouse, Nonobese	228) C0018018 - Goat Diseases
159) C0012118 - Dictyocaulus Infections	229) C0018249 - Grooming
160) C0086150 - Didelphis	230) C0518461 - Grooming self-care
161) C0012602 - Dirofilariasis	231) C0085979 - Guinea Pigs
162) C0012754 - Distemper	232) C0034696 - Gunn Rats
163) C0012984 - Dog	233) C0025924 - Hairless Mice
164) C0012979 - Dog Diseases	234) C0025924 - Hairless Mouse
165) C0007450 - Domestic Cat	235) C0018557 - Hamster
166) C0007450 - Domestic Cats	236) C0018555 - Hamsters, Chinese
167) C0034493 - Domestic Rabbit	237) C0018597 - Harderian Gland
168) C0034493 - Domestic Rabbits	238) C0004949 - Hare, Belgian
169) C0751318 - domesticus, Mus	239) C0018835 - Heartwater Disease
170) C0751318 - domesticus, Mus musculus	240) C0018891 - Helminthiasis, Animal
171) C0013076 - Dourine	241) C0019051 - Hemolymph
172) C0013529 - Echolocation	242) C0019188 - Hepatitis, Animal
173) C0013570 - Ecthyma, Contagious	243) C0019191 - Hepatitis, Infectious Canine
174) C0013591 - Ectromelia, Infectious	244) C0019194 - Hepatitis, Viral, Animal
175) C0013605 - Edema Disease of Swine	245) C0023216 - Hindlimb
176) C0013702 - Egg Shell	246) C0019556 - Hip Dysplasia, Canine
177) C0013782 - Electric Organ	247) C0019841 - Hog Cholera
178) C0013897 - Eliminative Behavior, Animal 179) C0013940 - Embryo, Nonmammalian	248) C0242589 - Holtzman Rats
180) C0014073 - Encephalomyelitis, Enzootic Porcine	249) C0600243 - Home Range 250) C0600243 - Home Ranges
181) C0085209 - Encephalopathy, Bovine Spongiform	251) C0019861 - Homing Behavior
182) C0014342 - Enteritis, Transmissible, of Turkeys	252) C0019861 - Honing Behaviors
183) C0014371 - Enterotoxemia	253) C0019909 - Hoof and Claw
184) C0085165 - Enzootic bovine leukosis	254) C0019939 - Horns
185) C0014481 - Ephemeral Fever	255) C0019940 - Horse Diseases
186) C0014521 - Epidermitis, Exudative, of Swine	256) C0025914 - House Mice
187) C0014661 - Equine Infectious Anemia	257) C0025914 - House Mouse
188) C0014736 - Erysipelothrix infection	258) C0025924 - HRS Mice
189) C0014736 - Erysipelothrix Infections	259) C0025924 - HRS Mice, Inbred
190) C0324537 - Evans Rats, Long	260) C0025924 - HRS Mouse
191) C0034703 - F344 Rat	261) C0025924 - HRS Mouse, Inbred
192) C0034703 - F344 Rat, Inbred	262) C0524519 - Hyaenidae
193) C0034703 - F344 Rats	263) C0162418 - Hyperglycemic Mice
194) C0034703 - F344 Rats, Inbred	264) C0162418 - Hyperglycemic Mouse
195) C0999241 - Falconiformes	265) C0600534 - Hypertensive Rats, Dahl
196) C0012984 - familiaris, Canis	266) C0025925 - ICR Mice
197) C0015655 - Fascioloidiasis	267) C0025925 - ICR Mice, Inbred
198) C0015665 - Fat Body	268) C0025925 - ICR Mouse
199) C0600548 - Fatty Rats, Otsuka-Long-Evans-Tokushima	269) C0025925 - ICR Mouse, Inbred
200) C0015731 - Feathers	270) C0524641 - ICRC Mice, Inbred
201) C0325089 - feline	271) C0524641 - ICRC Mouse, Inbred
202) C0079335 - Feline Acquired Immunodeficiency Syndrome	272) C0085112 - Immunodeficient Mice, Severe Combined
203) C0007350 - Feline Disease	273) C0025917 - Inbred A Mice
204) C0085306 - Feline infectious peritonitis	274) C0025917 - Inbred A Mouse
205) C0015765 - Feline Panleukopenia	275) C0034698 - Inbred ACI Rat
206) C0524517 - Felis 207) C0007450 - Felis catus	276) C0034698 - Inbred ACI Rats
207) C0007450 - Felis catus	277) C0025918 - Inbred AKR Mice

Animals continued:	347) C0016627 - Influenza, Avian
278) C0025918 - Inbred AKR Mouse	348) C0016627 - Influenzas, Avian
279) C0025919 - Inbred BALB C Mice	349) C0021800 - Interrenal Gland
280) C0025919 - Inbred BALB C Mouse	350) C0025928 - Jimpy Mice
281) C0034699 - Inbred BB Rat	351) C0022576 - Keratoconjunctivitis, Infectious
282) C0034699 - Inbred BB Rats	352) C0022742 - Knee
283) C0034700 - Inbred BN Rat	353) C0206745 - Knock-out Mice
284) C0034700 - Inbred BN Rats	354) C0206745 - Knockout Mice
285) C0034701 - Inbred BUF Rat	355) C0206745 - Knockout Mouse
286) C0034701 - Inbred BUF Rats	356) C0022827 - L Cells (Cell Line)
287) C0034701 - Inbred Buffalo Rats	357) C0025929 - Laboratory Mice
288) C0025920 - Inbred C3H Mice	358) C0025929 - Laboratory Mouse
289) C0025920 - Inbred C3H Mouse	359) C0086893 - Laboratory Rat 360) C0086893 - Laboratory Rats
290) C0025921 - Inbred C57BL Mice 291) C0025921 - Inbred C57BL Mouse	361) C0022976 - Lameness, Animal
292) C0025921 - Infocd CS7BE Mouse 292) C0025922 - Inbred CBA Mice	362) C0600547 - LEC Rat, Inbred
293) C0025922 - Inbred CBA Mouse	363) C0600547 - LEC Rats, Inbred
294) C0034703 - Inbred CDF Rat	364) C0023420 - Leukemia L1210
295) C0034703 - Inbred CDF Rats	365) C0023421 - Leukemia L5178
296) C0206610 - Inbred CFTR Mice	366) C0023429 - Leukemia P388
297) C0206610 - Inbred CFTR Mouse	367) C0085164 - Leukemia, Feline
298) C0600533 - Inbred Dahl Rats	368) C0034704 - Lew Rat
299) C0025923 - Inbred DBA Mice	369) C0034704 - Lew Rat, Inbred
300) C0025923 - Inbred DBA Mouse	370) C0034704 - Lew Rats
301) C0034703 - Inbred F344 Rat	371) C0034704 - Lew Rats, Inbred
302) C0034703 - Inbred F344 Rats	372) C0034704 - Lewis Rats, Inbred
303) C0025924 - Inbred HRS Mice	373) C0023904 - Liver Neoplasms, Experimental
304) C0025924 - Inbred HRS Mouse 305) C0025925 - Inbred ICR Mice	374) C0242598 - LLC-PK1 Cells 375) C0600547 - Long Evans Cinnamon Rats
306) C0025925 - Inbred ICR Mouse	376) C0324537 - Long Evans Chinamon Rats
307) C0524641 - Inbred ICRC Mice	377) C0600547 - Long-Evans Cinnamon Rats
308) C0524641 - Inbred ICRC Mouse	378) C0324537 - Long-Evans Rats
309) C0600547 - Inbred LEC Rat	379) C0024003 - Lordosis
310) C0600547 - Inbred LEC Rats	380) C0024025 - Louping Ill
311) C0034704 - Inbred Lew Rat	381) C0376632 - lpr Mice, MRL
312) C0034704 - Inbred Lew Rats	382) C0376632 - lpr Mouse, MRL
313) C0034704 - Inbred Lewis Rats	383) C0024106 - Lumpy Skin Disease
314) C0206535 - Inbred mdx Mice	384) C0024148 - Lurcher Mice
315) C0206535 - Inbred mdx Mouse	385) C0024148 - Lurcher Mouse
316) C0025927 - Inbred Mouse Strain	386) C0024533 - Malaria, Avian
317) C0025927 - Inbred Mouse Strains	387) C0024587 - Malignant Catarrh
318) C0085243 - Inbred NOD Mice	388) C0024648 - Malpighian Tubules 389) C0024659 - Mammae
319) C0085243 - Inbred NOD Mouse 320) C0025926 - Inbred NZB Mice	390) C1257925 - Mammary Carcinoma, Animal
321) C0025926 - Inbred NZB Mouse	391) C1257925 - Mammary Carcinomas, Animal
322) C0600548 - Inbred OLETF Rat	392) C0024659 - Mammary Gland, Animal
323) C0600548 - Inbred OLETF Rats	393) C0024659 - Mammary Glands, Animal
324) C0034706 - Inbred Rat Strain	394) C0024667 - Mammary Neoplasm
325) C0034706 - Inbred Rat Strains	395) C0024667 - Mammary Neoplasm, Animal
326) C0034699 - Inbred Rat, Bio-Breeding	396) C0024667 - Mammary Neoplasms
327) C0034699 - Inbred Rats, Bio-Breeding	397) C0024668 - Mammary Neoplasms, Experimental
328) C0242854 - Inbred SENCAR Mice	398) C0024788 - Marburg Virus Disease
329) C0242854 - Inbred SENCAR Mouse	399) C0024793 - Marek Disease
330) C0034705 - Inbred SHR Rat	400) C0024895 - Mastitis, Bovine
331) C0034705 - Inbred SHR Rats	401) C0206535 - mdx Mice
332) C0025927 - Inbred Strain of Mice	402) C0206535 - mdx Mice, Inbred
333) C0025927 - Inbred Strain of Mouse 334) C0034706 - Inbred Strain of Rat	403) C0206535 - mdx Mouse 404) C0206535 - mdx Mouse, Inbred
335) C0034706 - Inbred Strain of Rats	405) C0006345 - Melopsittacus
336) C0034706 - Inbred Strain of Rats	406) C0025864 - Metrial Gland
337) C0034706 - Inbred Strain Rats	407) C0025914 - Mice
338) C0025927 - Inbred Strains of Mice	408) C0026200 - Mice Minute Viruses
339) C0034706 - Inbred Strains of Rats	409) C0025930 - Mice Mutant Strain
340) C0034706 - Inbred Strains Rat	410) C0025930 - Mice Mutant Strains
341) C0034706 - Inbred Strains Rats	411) C0025918 - Mice, AKR
342) C0034707 - Inbred WF Rat	412) C0025932 - Mice, Athymic
343) C0034707 - Inbred WF Rats	413) C0025919 - Mice, BALB C
344) C0034709 - Inbred WKY Rat	414) C0025920 - Mice, C3H
345) C0034709 - Inbred WKY Rats	415) C0025921 - Mice, C57BL
346) C0021334 - Infectious Bovine Rhinotracheitis	416) C0025922 - Mice, CBA

Animals continued:	486) C0206535 - Mouse, Inbred mdx
417) C0206610 - Mice, CFTR	487) C0376632 - Mouse, Inbred MRL lpr
418) C0025923 - Mice, DBA	488) C0085243 - Mouse, Inbred NOD
419) C0025924 - Mice, Hairless	489) C0025926 - Mouse, Inbred NZB
420) C0025914 - Mice, House	490) C0242854 - Mouse, Inbred SENCAR 491) C0025927 - Mouse, Inbred Strain
421) C0025924 - Mice, HRS	
422) C0162418 - Mice, Hyperglycemic	492) C0206745 - Mouse, Knockout
423) C0025925 - Mice, ICR	493) C0025929 - Mouse, Laboratory
424) C0524641 - Mice, Inbred ICRC	494) C0024148 - Mouse, Lurcher
425) C0206745 - Mice, Knock out	495) C0206535 - Mouse, mdx
426) C0206745 - Mice, Knock-out	496) C0376632 - Mouse, MRL lpr 497) C0025930 - Mouse, Mutant Strain
427) C0025929 - Mice, Laboratory 428) C0024148 - Mice, Lurcher	498) C0027762 - Mouse, Nervous
429) C0206535 - Mice, mdx	499) C00257702 - Mouse, Neurologic Mutant
430) C0376632 - Mice, MRL lpr	500) C0025931 - Mouse, Neurological Mutant
431) C0027762 - Mice, Nervous	501) C0085243 - Mouse, NOD
432) C0025931 - Mice, Neurologic Mutant	502) C0085243 - Mouse, Non-Obese Diabetic
433) C0025931 - Mice, Neurological Mutants	503) C0085243 - Mouse, Nonobese Diabetic
434) C0085243 - Mice, NOD	504) C0025932 - Mouse, Nude
435) C0085243 - Mice, Non-Obese Diabetic	505) C0025926 - Mouse, NZB
436) C0085243 - Mice, Nonobese Diabetic	506) C0025933 - Mouse, Obese
437) C0025926 - Mice, NZB	507) C0034921 - Mouse, Reeler
438) C0034921 - Mice, Reeler	508) C0085112 - Mouse, SCID
439) C0086962 - Mice, SCID-hu	509) C0086962 - Mouse, SCID hu
440) C0242854 - Mice, SENCAR	510) C0086962 - Mouse, SCID-hu
441) C0038125 - Mice, Staggerer	511) C0242854 - Mouse, SENCAR
442) C0162416 - Mice, Swiss	512) C0038125 - Mouse, Staggerer
443) C1450009 - Mice, Transgenic Founder	513) C0162416 - Mouse, Swiss
444) C0043086 - Mice, Weaver	514) C0025936 - Mouse, Transgenic
445) C0025938 - Micelle	515) C0043086 - Mouse, Weaver
446) C0026200 - Minute Virus of Mice	516) C0376632 - MRL lpr Mice
447) C0026200 - Minute Virus, Mice	517) C0376632 - MRL lpr Mouse
448) C0026200 - Minute Viruses, Mice	518) C0079864 - Murine Acquired Immunodeficiency Syndrome
449) C0026414 - Monieziasis	519) C0019185 - Murine hepatitis virus
450) C0026431 - Monkey Diseases	520) C0026809 - Mus
451) C0242413 - Monodelphis	521) C0751318 - Mus domesticus
452) C0025914 - Mouse	522) C0025914 - Mus musculus
453) C0025927 - Mouse Inbred Strain	523) C0751318 - Mus musculus domesticus
454) C0025927 - Mouse Inbred Strains	524) C0026851 - Muscular Dystrophy, Animal
455) C0025930 - Mouse Mutant Strain	525) C0751318 - musculus domesticus, Mus
456) C0025930 - Mouse Mutant Strains	526) C0325034 - Mustelidae
457) C0025927 - Mouse Strain, Inbred	527) C0025931 - Mutant Mice, Neurologic
458) C0025930 - Mouse Strain, Mutant	528) C0025930 - Mutant Mouse Strain
459) C0025927 - Mouse Strains, Inbred	529) C0025930 - Mutant Mouse Strains
460) C0025930 - Mouse Strains, Mutant	530) C0025931 - Mutant Mouse, Neurologic
461) C0025918 - Mouse, AKR	531) C0025930 - Mutant Strain Mouse
462) C0025932 - Mouse, Athymic	532) C0025930 - Mutant Strain of Mouse
463) C0025919 - Mouse, BALB C	533) C0025930 - Mutant Strains Mice
464) C0025920 - Mouse, C3H	534) C0025930 - Mutant Strains of Mice
465) C0025921 - Mouse, C57BL	535) C0034711 - Mutant Strains Rat
466) C0025922 - Mouse, CBA	536) C0034711 - Mutant Strains Rats
467) C0206610 - Mouse, CFTR	537) C0027132 - Myoxidae
468) C0025923 - Mouse, DBA	538) C0027152 - Myxomatosis, Infectious
469) C1450009 - Mouse, Founder, Transgenic	539) C0027345 - Nairobi Sheep Disease
470) C0025924 - Mouse, Hairless	540) C0024667 - Neoplasm, Animal Mammary
471) C0025914 - Mouse, House	541) C0024667 - Neoplasm, Mammary
472) C0025924 - Mouse, HRS	542) C0024667 - Neoplasms, Animal Mammary
473) C0162418 - Mouse, Hyperglycemic	543) C0024667 - Neoplasms, Mammary
474) C0025925 - Mouse, ICR	544) C0027762 - Nervous Mice
475) C0025917 - Mouse, Inbred A	545) C0027762 - Nervous Mouse
476) C0025918 - Mouse, Inbred AKR	546) C0027776 - Nesting Behavior
477) C0025919 - Mouse, Inbred BALB C	547) C0025931 - Neurologic Mutant Mice
478) C0025920 - Mouse, Inbred C3H	548) C0025931 - Neurologic Mutant Mouse
479) C0025921 - Mouse, Inbred C57BL	549) C0025931 - Neurological Mutant Mouse
480) C0025922 - Mouse, Inbred CBA	550) C0027983 - Newcastle Disease
481) C0206610 - Mouse, Inbred CFTR	551) C0028058 - Nictitating Membrane
482) C0025923 - Mouse, Inbred DBA	552) C0085243 - NOD Mice
483) C0025924 - Mouse, Inbred HRS	553) C0085243 - NOD Mice, Inbred
494) C0025025 Mayor Inhead ICD	333) C0003243 - NOD WICC, IIIDICC
484) C0025925 - Mouse, Inbred ICR	554) C0085243 - NOD Mouse
485) C0524641 - Mouse, Inbred ICRC	

Animals continued:	625) C0034706 - Rat Inbred Strain
556) C0085243 - Non Obese Diabetic Mice	626) C0034706 - Rat Inbred Strains
557) C0085243 - Non Obese Diabetic Mouse	627) C0034706 - Rat Strain, Inbred
558) C0085243 - Non-Obese Diabetic Mice	628) C0034706 - Rat Strains, Inbred
559) C0085243 - Non-Obese Diabetic Mouse	629) C0034698 - Rat, ACI
560) C0085243 - Nonobese Diabetic Mice	630) C0034713 - Rat, Athymic
561) C0085243 - Nonobese Diabetic Mouse 562) C0034693 - Norway Rats	631) C0524710 - Rat, August 632) C0034699 - Rat, BB
563) C0025932 - Nude Mice	633) C0034699 - Rat, Bio-Breeding Inbred
564) C0025932 - Nude Mouse	634) C0034700 - Rat, BN
565) C0034713 - Nude Rat	635) C0034701 - Rat, BUF
566) C0034713 - Nude Rats	636) C0034703 - Rat, F344
567) C0025926 - NZB Mice	637) C0034698 - Rat, Inbred ACI
568) C0025926 - NZB Mice, Inbred	638) C0034699 - Rat, Inbred BB
569) C0025926 - NZB Mouse	639) C0034700 - Rat, Inbred BN
570) C0025926 - NZB Mouse, Inbred	640) C0034701 - Rat, Inbred BUF
571) C0025933 - Obese Mice	641) C0034703 - Rat, Inbred CDF
572) C0025933 - Obese Mouse	642) C0034703 - Rat, Inbred F344
573) C0028828 - Octodon	643) C0600547 - Rat, Inbred LEC
574) C0600548 - OLETF Rat, Inbred	644) C0034704 - Rat, Inbred Lew
575) C0600548 - OLETF Rats, Inbred	645) C0600548 - Rat, Inbred OLETF
576) C0028972 - Omasum	646) C0034705 - Rat, Inbred SHR
577) C0029129 - Optic Lobe	647) C0034706 - Rat, Inbred Strain
578) C0034493 - Oryctolagus cuniculus	648) C0034706 - Rat, Inbred Strains
579) C0600548 - Otsuka Long Evans Tokushima Fatty Rats	649) C0034707 - Rat, Inbred WF
580) C0600548 - Otsuka Long Evans Tokushima Rats	650) C0034709 - Rat, Inbred WKY
581) C0600548 - Otsuka-Long-Evans-Tokushima Fatty Rats	651) C0086893 - Rat, Laboratory
582) C0600548 - Otsuka-Long-Evans-Tokushima Rats	652) C0034704 - Rat, Lew
583) C0029954 - Oviducts	653) C0034711 - Rat, Mutant Strains
584) C0030209 - Pair Bond	654) C0034713 - Rat, Nude
585) C1093031 - Palaeognathae	655) C0034705 - Rat, SHR
586) C0324819 - Papio anubis	656) C0034705 - Rat, Spontaneously Hypertensive
587) C0324818 - Papio cynocephalus	657) C0034707 - Rat, WF
588) C0324820 - Papio hamadryas	658) C0034709 - Rat, WKY
589) C1263339 - Papio papio	659) C0034706 - Rats Inbred Strain
590) C0324817 - Papio ursinus	660) C0034706 - Rats Inbred Strains
591) C0030500 - Parasitic Diseases, Animal	661) C0034698 - Rats, ACI
592) C0030524 - Paratuberculosis	662) C0034713 - Rats, Athymic
593) C0030612 - Parturient Paresis	663) C0524710 - Rats, August
594) C0600537 - Passeriformes 595) C0036969 - Pasteurellosis, Pneumonic	664) C0004728 - Rats, Bandicoot
596) C0085262 - PC12 Cells	665) C0034699 - Rats, BB 666) C0034699 - Rats, BB Wistar
597) C0031021 - Perianal Glands	667) C0034699 - Rats, Bio-Breeding Inbred
598) C0324683 - Phalangeridae	668) C0034700 - Rats, BN
599) C0324716 - Phascolarctidae	669) C0034701 - Rats, BUF
600) C0206436 - Photoreceptors, Invertebrate	670) C0600533 - Rats, Dahl
601) C0016627 - Plague, Fowl	671) C0600534 - Rats, Dahl Hypertensive
602) C0032243 - Pleuropneumonia, Contagious	672) C0600535 - Rats, Dahl Salt-Resistant
603) C0276046 - Pneumonia of Calves, Enzootic	673) C0600534 - Rats, Dahl Salt-Sensitive
604) C0032291 - Pneumonia, Atypical Interstitial, of Cattle	674) C0034703 - Rats, F344
605) C0032306 - Pneumonia, Progressive Interstitial, of Sheep	675) C0034703 - Rats, Fischer
606) C0376538 - Porcine Reproductive and Respiratory Syndrome	676) C0242589 - Rats, Holtzman
607) C0324713 - Potoroidae	677) C0034698 - Rats, Inbred A x C 9935 Irish
608) C0032851 - Poultry Diseases	678) C0034700 - Rats, Inbred Brown Norway
609) C0032942 - Predatory Behavior	679) C0034701 - Rats, Inbred Buffalo
610) C0242634 - Primate Diseases	680) C0034703 - Rats, Inbred CDF
611) C0325026 - Procyonidae	681) C0034703 - Rats, Inbred Fischer 344
612) C0033741 - Protozoan Infections, Animal	682) C0034703 - Rats, Inbred Fisher 344
613) C0033745 - Proventriculus	683) C0034704 - Rats, Inbred Lewis
614) C0033839 - Pseudorabies	684) C0600547 - Rats, Inbred Long Evans Cinnamon
615) C1301021 - Psittacula	685) C0600547 - Rats, Inbred Long-Evans Cinnamon
616) C0034049 - Pulmonary Adenomatosis, Ovine	686) C0034706 - Rats, Inbred Strain
617) C0025934 - Quaking Mice	687) C0034707 - Rats, Inbred Wistar Furth
618) C0034493 - Rabbit	688) C0086893 - Rats, Laboratory
619) C0034493 - Rabbit, Domestic	689) C0034704 - Rats, Lew
620) C0034493 - Rabbits, Domestic	690) C0324537 - Rats, Long Evans
621) C0034531 - Radiation Injuries, Experimental	691) C0600547 - Rats, Long-Evans Cinnamon
622) C0600243 - Range, Home	692) C0034693 - Rats, Norway
623) C0600243 - Ranges, Home	693) C0600548 - Rats, Otsuka-Long-Evans-Tokushima
624) C0034693 - Rat	694) C0600548 - Rats, Otsuka-Long-Evans-Tokushima Fatty

Animals continued:	754) C0034706 - Strain, Inbred Rat
695) C0034705 - Rats, SHR	755) C0025930 - Strain, Mutant Mouse
696) C0034705 - Rats, Spontaneously Hypertensive	756) C0025930 - Strains Mice, Mutant
697) C0034715 - Rats, Sprague Dawley	757) C0034711 - Strains Rat, Mutant
698) C0034707 - Rats, WF	758) C0034711 - Strains Rats, Mutant
699) C0034707 - Rats, W1	759) C0025927 - Strains, Inbred Mouse
700) C0034707 - Rats, Wistar Furth	760) C0034706 - Strains, Inbred Rat
701) C0034709 - Rats, WISTAI RYOTO	· · · · · · · · · · · · · · · · · · ·
	761) C0025930 - Strains, Mutant Mouse
702) C0034721 - Rattus	762) C0038459 - Strongyle Infections, Equine
703) C0034693 - Rattus norvegicus	763) C0024003 - Swayback
704) C0034921 - Reeler Mice	764) C0039006 - Swine Diseases
705) C0034921 - Reeler Mouse	765) C0039007 - Swine Erysipelas
706) C0035295 - Reticulum	766) C0019841 - Swine Fever
707) C0035613 - Rift Valley Fever	767) C0019841 - Swine Fever, Classical
708) C0035637 - Rinderpest	768) C0039010 - Swine Vesicular Disease
709) C0035801 - Rodent Diseases	769) C0039011 - Swine, Miniature
710) C0035946 - Rumen	770) C0162416 - Swiss Mice
711) C1093204 - Rupicapra	771) C0162416 - Swiss Mouse
712) C0036118 - Salmonella Infections, Animal	772) C0039259 - Tail
713) C0036139 - Salt Gland	773) C0003086 - Tarsus
714) C0600535 - Salt-Resistant Rats, Dahl	774) C0039753 - Theileriasis
715) C0600534 - Salt-Sensitive Rats, Dahl	775) C0040553 - Toxocariasis
716) C0004426 - Sarcoma, Avian	776) C0040559 - Toxoplasmosis, Animal
717) C0036294 - Scent Glands	777) C1450009 - Transgenic Founder Mice
718) C0086962 - SCID hu Mice	778) C0025936 - Transgenic Mice
719) C0085112 - SCID Mice	779) C0025936 - Transgenic Mouse
720) C0085112 - SCID Mouse	780) C0324689 - Trichosurus
721) C0086962 - SCID-hu Mice	781) C0041230 - Trypanosomiasis, Bovine
722) C0086962 - SCID-hu Mouse	782) C0041306 - Tuberculosis, Avian
723) C0036457 - Scrapie	783) C0041307 - Tuberculosis, Bovine
724) C0242854 - SENCAR Mice	784) C0242386 - Udder
725) C0242854 - SENCAR Mice, Inbred	785) C0242386 - Udders
726) C0242854 - SENCAR Mouse	786) C0041605 - Ultimobranchial Body
727) C0242854 - SENCAR Mouse, Inbred	787) C0042465 - Venereal Tumors, Veterinary
728) C0036850 - Setariasis	788) C0042542 - Vero Cells
729) C0085112 - Severe Combined Immunodeficient Mice	789) C0042567 - Vertebrates
730) C0036865 - Sex Behavior, Animal	790) C0042584 - Vesicular Exanthema of Swine
731) C0036946 - Sheep Diseases	791) C0042640 - Vibrissae
732) C0034705 - SHR Rat	792) C0080323 - Visna
733) C0034705 - SHR Rat, Inbred	793) C1135593 - Viverridae
734) C0034705 - SHR Rats	794) C0042932 - Vocalization, Animal
735) C0034705 - SHR Rats, Inbred	795) C0043086 - Weaver Mice
736) C0080151 - Simian Acquired Immunodeficiency Syndrome	796) C0043086 - Weaver Mouse
737) C0037224 - Simian immunodeficiency virus	797) C0034707 - WF Rat
738) C0524808 - Spalax	798) C0034707 - WF Rat, Inbred
739) C0325331 - Spheniscidae	799) C0034707 - WF Rats
740) C0034705 - Spontaneously Hypertensive Rat	800) C0034707 - WF Rats, Inbred
741) C0034705 - Spontaneously Hypertensive Rats	801) C0043152 - White Heifer Disease
742) C0034705 - Spontaneously Hypertensive Rats	802) C0043153 - White Muscle Disease
743) C0034715 - Sprague-Dawley Rats	803) C0043189 - Wing
744) C0034713 - Sprague-Dawley Rats	804) C0034707 - Wistar Furth Rats
745) C0038125 - Staggerer Mouse	805) C0034707 - Wistar Futul Rats
746) C0038125 - Staggeter Mouse	•
746) C0038233 - Steatins 747) C0038351 - Stomach	806) C0034699 - Wistar Rats, BB 807) C0034709 - WKY Rat
· · · · · · · · · · · · · · · · · · ·	
748) C0038360 - Stomach, Avian	808) C0034709 - WKY Rat, Inbred
749) C0038361 - Stomach, Ruminant	809) C0034709 - WKY Rats
750) C0025930 - Strain Mouse, Mutant	810) C0034709 - WKY Rats, Inbred
751) C0034706 - Strain Rat, Inbred	811) C0043220 - Wool
752) C0034706 - Strain Rats, Inbred	812) C0043528 - Zoonoses
753) C0025927 - Strain, Inbred Mouse	813) C0034719 - Zucker Rats

Animals Trees (18):

- 1) C22 Animal Diseases
- 2) A13 Animal Structures
- 3) I01.880.604.100 Animal Welfare
- 4) B01 Animals
- 5) C04.619.045 Carcinoma 256, Walker
- 6) C04.619.124 Carcinoma, Brown-Pearce
- 7) C04.619.169 Carcinoma, Ehrlich Tumor
- 8) C04.619.214 Carcinoma, Krebs 2
- 9) C04.619.230 Carcinoma, Lewis Lung
- 10) G03.230.150.360.250 Housing, Animal
- 11) C04.619.531 Leukemia, Experimental
- 12) C04.619.540 Liver Neoplasms, Experimental
- 13) A11.251.210.520 LLC-PK1 Cells
- 14) C04.619.590 Mammary Neoplasms, Experimental
- 15) C04.619.600 Melanoma, Experimental
- 16) G08.520.769.498 Pregnancy, Animal
- 17) C04.619.857 Sarcoma, Experimental
- 18) A11.251.210.955 Vero Cells

Cats (17):

- 1) C0007450 Cat
- 2) C0007350 Cat Diseases
- 3) C0007450 Cat, Domestic
- 4) C0007450 Cats, Domestic
- 5) C0007450 Domestic Cat
- 6) C0007450 Domestic Cats
- 7) C0325089 feline
- 8) C0079335 Feline Acquired Immunodeficiency Syndrome
- 9) C0007350 Feline Disease
- 10) C0085306 Feline infectious peritonitis
- 11) C0524517 Felis
- 12) C0007450 Felis catus
- 13) C0007450 Felis domestica
- 14) C0007450 Felis domesticus
- 15) C0007450 Felis sylvestris catus
- 16) C0085164 Leukemia, Feline
- 17) C1135593 Viverridae

Cats Trees (1):

1) C22.180 - Cat Diseases

Cattle (22):

- 1) C0007452 Bovine
- 2) C0032291 Bovine atypical interstitial pneumonia 3) C0302363 Bovine brucellosis
- 4) C1449809 Bovine Respiratory Disease Complex
- 5) C0006075 Bovine Virus Diarrhea-Mucosal Disease
- 6) C0302363 Brucellosis, Bovine
- 7) C0007452 Cattle
- 8) C0007453 Cattle Diseases
- 9) C0085209 Encephalopathy, Bovine Spongiform
- 10) C0085165 Enzootic bovine leukosis
- 11) C0014481 Ephemeral Fever
- 12) C0016697 Freemartinism
- 13) C0021334 Infectious Bovine Rhinotracheitis
- 14) C0024106 Lumpy Skin Disease
- 15) C0024587 Malignant Catarrh
- 16) C0024895 Mastitis, Bovine
- 17) C0276046 Pneumonia of Calves, Enzootic
- 18) C0032291 Pneumonia, Atypical Interstitial, of Cattle
- 19) C0039753 Theileriasis
- 20) C0041230 Trypanosomiasis, Bovine
- 21) C0041307 Tuberculosis, Bovine
- 22) C0043152 White Heifer Disease

Cattle Trees (1):

1) C22.196 - Cattle Diseases

Child (142): 1) C0008095 - Abandoned Child 66) C0008097 - Gifted Children 2) C0008095 - Abandoned Children 67) C0008077 - Guidance Clinic, Child 3) C0008060 - Abuse, Child 68) C0008077 - Guidance Clinics, Child 4) C0008062 - Abuse, Child Sexual 69) C0008076 - Guidance, Child 5) C0008060 - Abuses, Child 70) C0008076 - Guidances, Child 6) C0008063 - Advocacies, Child 71) C0008079 - Health Child Service 72) C0008079 - Health Child Services 7) C0008063 - Advocacy, Child 8) C0001843 - Aid to Families with Dependent Children 73) C0021276 - Health Infant Service 9) C0008066 - Behavior Disorders, Child 74) C0021276 - Health Infant Services 10) C0008065 - Behavior, Child 75) C0008079 - Health Service, Child 11) C0041903 - Birth, Unwanted 76) C0021276 - Health Service, Infant 12) C0041903 - Births, Unwanted 77) C0008079 - Health Services, Child 13) C0008067 - Care, Child 78) C0021276 - Health Services, Infant 14) C0008070 - Center, Child Daycare 79) C0008078 - Health, Child 80) C0008098 - Hospitalized Child 15) C0008070 - Centers, Child Daycare 16) C0008059 - Child 81) C0008098 - Hospitalized Children 17) C0008060 - Child Abuses 82) C0079111 - Impaired Parents Offspring 18) C0008063 - Child Advocacies 83) C0079111 - Impaired Parents Offsprings 19) C0008069 - Child Custodies 84) C0079111 - Impaired Parents' Children 20) C0008070 - Child Daycare Center 85) C0205714 - Infant Development 21) C0008070 - Child Daycare Centers 86) C0021276 - Infant Health Service 87) C0021276 - Infant Health Services 22) C0008074 - Child Development Disorders, Pervasive 88) C0021281 - Infant Psychology 23) C0008077 - Child Guidance Clinic 24) C0008076 - Child Guidances 89) C0021276 - Infant Service, Health 25) C0008078 - Child Health 90) C0021276 - Infant Services, Health 26) C0008079 - Child Health Service 91) C0008099 - Institutionalized Child 27) C0008081 - Child Languages 92) C0008099 - Institutionalized Children 28) C1257753 - Child Malnutrition 93) C0008081 - Language, Child 29) C0008062 - Child Molestation, Sexual 94) C0008081 - Languages, Child 30) C0008083 - Child Mortalities 95) C1257753 - Malnutrition in Children 31) C0008083 - Child Mortality 96) C1257753 - Malnutrition, Child 32) C0553726 - Child neglect 97) C0008062 - Molestation, Sexual Child 33) C0008087 - Child Nutrition Disorder 98) C0008062 - Molestation, Sexual, Child 34) C0008086 - Child Nutritions 99) C0008083 - Mortalities, Child 35) C1257764 - Child Overnutrition 100) C0008083 - Mortality, Child 101) C0553726 - neglected child finding 36) C0008090 - Child Reactive Disorder 37) C0008091 - Child Rearings 102) C0008087 - Nutrition Disorder, Child 103) C0008087 - Nutrition Disorders, Child 38) C0008079 - Child Service, Health 39) C0008079 - Child Services, Health 104) C0008086 - Nutrition, Child 105) C0008086 - Nutritions, Child 40) C0008062 - Child Sexual Abuse 41) C0079112 - Child Support 106) C0079111 - Offspring of Impaired Parents 42) C0008059 - Children 107) C1257764 - Overnutrition, Child 108) TxLookup - paediatric 109) C0079111 - Parents Offspring, Impaired 43) C0079111 - Children of Impaired Parents 44) C0008095 - Children, Abandoned 45) C0008096 - Children, Exceptional 110) C0079111 - Parents Offsprings, Impaired 46) C0008097 - Children, Gifted 111) C0876889 - Pediatric 112) C0008089 - Pediatric Psychology 47) C0008098 - Children, Hospitalized 48) C0079111 - Children, Impaired Parents' 113) C0030755 - Pediatrics 49) C0008099 - Children, Institutionalized 114) C0008074 - Pervasive Child Development Disorders 50) C0008100 - Children, Preschool 115) C0008100 - Preschool Child 51) C0008101 - Children, Unwanted 116) C0008100 - Preschool Children 52) C0008077 - Clinic, Child Guidance 117) C0008088 - Psychiatry, Child 53) C0008077 - Clinics, Child Guidance 118) C0008089 - Psychology, Child 119) C0021281 - Psychology, Infant 54) C0008069 - Custodies, Child 55) C0008069 - Custody, Child 120) C0008089 - Psychology, Pediatric 56) C0008070 - Day Care Centers for Children 121) C0008067 - Puericulture 57) C0008070 - Daycare Center, Child 122) C0008090 - Reactive Disorder, Child 58) C0008070 - Daycare Centers for Children 123) C0008091 - Rearing, Child 59) C0008070 - Daycare Centers, Child 124) C0008091 - Rearings, Child 60) C0008071 - Development, Child 61) C0205714 - Development, Infant 125) C0008079 - Service, Child Health 126) C0008079 - Service, Health Child 62) C0008066 - Disorders, Child Behavior 127) C0021276 - Service, Health Infant 63) C0008096 - Exceptional Child 128) C0021276 - Service, Infant Health

129) C0008079 - Services, Child Health

130) C0008079 - Services, Health Child

64) C0008096 - Exceptional Children

65) C0008097 - Gifted Child

Child continued:

131) C0021276 - Services, Health Infant 132) C0021276 - Services, Infant Health 133) C0008062 - Sexual Abuse of Child 134) C0008062 - Sexual Abuse, Child 135) C0008062 - Sexual Child Abuse 136) C0008062 - Sexual Child Molestation 137) C0079112 - Support, Child 138) C0041903 - Unwanted Birth 139) C0041903 - Unwanted Births 140) C0008101 - Unwanted Child 141) C0008101 - Unwanted Children 142) C0008093 - Welfare, Child

Child Trees (1):

1) M01.060.406 - Child

Dogs (8):

1) C0012979 - Canine Diseases 2) C0012984 - Canis familiaris

3) C0012984 - Dog

4) C0012979 - Dog Diseases 5) C1280551 - Dog family

6) C0012984 - familiaris, Canis

7) C0019191 - Hepatitis, Infectious Canine

8) C0019556 - Hip Dysplasia, Canine

Dogs Trees (1):

1) C22.268 - Dog Diseases

Female (522):

1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0392535 - Abortion, Induced 6) C0000814 - Abortion, Missed 7) C0000817 - Abortion, Septic 8) C0000821 - Abortion, Threatened 9) C0000823 - Abortion, Veterinary 10) C0000812 - Abortions, Legal 11) C0000820 - Abortions, Therapeutic 12) C0000832 - Abruptio Placentae 13) C0001575 - Adnexa Uteri 14) C0001576 - Adnexal Diseases 15) C0001577 - Adnexitis 16) C0001588 - Adolescent, Female 17) C0001588 - Adolescents, Female 18) C0002453 - Amenorrhea 19) C0342008 - Amniotic fluid pulmonary embolism 20) C0002935 - Anestrus 21) C0003128 - Anovulation 22) C0085166 - Bacterial Vaginitides 23) C0085166 - Bacterial Vaginitis 24) C0085166 - Bacterial Vaginoses 25) C0085166 - Bacterial Vaginosis 26) C0004768 - Bartholin Glands 27) C0004768 - Bartholin's Glands 28) C0004768 - Bartholins Glands 29) C0242810 - Battered Women 30) C0029976 - Blastocyst Implantation 31) C1135596 - Blastocyst Implantation Inhibition 32) C1135596 - Blastocyst Implantation Suppression 33) C0029977 - Blastocyst Implantation, Delayed 34) C0029976 - Blastocyst Implantation, natural 35) C0029976 - Blastocyst Implantations 36) C0029977 - Blastocyst Implantations, Delayed 37) C0006157 - Breech Presentation 38) C0006205 - Broad Ligament

42) C1135969 - Cell, Large Luteal 43) C0024156 - Cell, Luteal 44) C0024156 - Cell, Lutein 45) C1135970 - Cell, Small Luteal 46) C1135970 - cell, Theca-Luteal 47) C1135970 - Cell, Theca-Lutein 48) C1135969 - Cells, Granulosa-Luteal 49) C1135969 - Cells, Granulosa-Lutein 50) C1135969 - Cells, Large Luteal 51) C0024156 - Cells, Luteal 52) C0024156 - Cells, Lutein 53) C1135970 - Cells, Small Luteal 54) C1135970 - cells, Theca-Luteal 55) C1135970 - Cells, Theca-Lutein 56) C0007868 - Cervical dysplasia 57) C0600454 - Cervical Ripening 58) C0007860 - Cervicitis 59) C0007874 - Cervix 60) C0007867 - Cervix Diseases 61) C0007869 - Cervix Erosion 62) C0007871 - Cervix Incompetence 63) C0007873 - Cervix Neoplasms 64) C0007874 - Cervix Uteri 65) C0007874 - Cervix, Uterine 66) C0007874 - Cervixes 67) TxLookup - cesarean 68) C0007876 - Cesarean section 69) C0206101 - Cesarean Section, Repeat 70) C0008043 - Chiari-Frommel Syndrome 71) C0008495 - Chorioamnionitis 72) C0008497 - Choriocarcinoma 73) C0008509 - Chorionic Villi Sampling 74) C0887804 - Circulation, Fetal-Placental 75) C0887804 - Circulation, Fetoplacental 76) C0887803 - Circulation, Placental 77) C0242622 - Circulation, Uteroplacental 78) C0887804 - Circulations, Fetal-Placental 79) C0887804 - Circulations, Fetoplacental 80) C0079341 - Circumcision, Female 81) C0008984 - Clitoris 82) C0010092 - Corpus Luteum

39) C0006852 - Candidiasis of vagina

40) C1135969 - Cell, Granulosa-Luteal

41) C1135969 - Cell, Granulosa-Lutein

Female continued:	152) C0015959 - Fetomaternal Transfusion
83) C0010095 - Corpus Luteum Maintenance	153) C0887804 - Fetoplacental Circulation
84) C0010096 - Corpus Luteum Regression	154) C0887804 - Fetoplacental Circulations
85) C0011106 - Decidua	155) C0016426 - Follicular Atresia
86) C0011107 - Decidual Cell Reaction	156) C0016431 - Follicular Fluid 157) C0016434 - Follicular Phase
87) C0011107 - Decidual Cell Reactions 88) C0029977 - Delayed Blastocyst Implantation	158) C0016722 - Frigidity
89) C0029977 - Delayed Blastocyst Implantations	159) C0235660 - Galactorrhea
90) C0029977 - Delayed Embryo Implantation	160) C0269995 - Galactorrhea associated with childbirth
91) C0029977 - Delayed Embryo Implantations	161) C0016999 - Gamete Intrafallopian Transfer
92) C0029977 - Delayed Nidation	162) C0017411 - Genital Diseases, Female
93) C0029977 - Delayed Nidations	163) C0017416 - Genital Neoplasms, Female
94) C0029977 - Delayed Ovum Implantation	164) C0017421 - Genitalia, Female
95) C0029977 - Delayed Ovum Implantations	165) C0032914 - Gestosis, Edema-Proteinuria-Hypertension
96) C0011209 - Deliveries, Obstetric	166) C0032914 - Gestosis, EPH 167) C0032914 - Gestosis, Hypertension-Edema-Proteinuria
97) C0011442 - Dentists, Women 98) C0221074 - Depression, Postpartum	168) C0032914 - Gestosis, Proteinuria-Edema-Hypertension
99) C0085207 - Diabetes, Gestational	169) TxLookup - girl
100) C0012154 - Diestrus	170) C0004768 - Glands, Bartholin's
101) C0012358 - Dilatation and Curettage	171) C0018207 - Granulosa Cells
102) C0242172 - Disease, Inflammatory Pelvic	172) C1135969 - Granulosa Luteal Cells
103) C0242172 - Disease, Pelvic Inflammatory	173) C1135969 - Granulosa Lutein Cells
104) C0242172 - Diseases, Inflammatory Pelvic	174) C1135969 - Granulosa-Luteal Cell
105) C0242172 - Diseases, Pelvic Inflammatory	175) C1135969 - Granulosa-Luteal Cells
106) C0013390 - Dysmenorrhea 107) C0013394 - Dyspareunia	176) C1135969 - Granulosa-Lutein Cell 177) C1135969 - Granulosa-Lutein Cells
108) C0013394 - Dysparedina 108) C0013418 - Dystocia	177) C1133909 - Grandiosa-Editent Cens 178) C0242543 - Group, Women's
109) C0013537 - Eclampsia	179) C0242543 - Groups, Women's
110) C0032914 - Edema Proteinuria Hypertension Gestosis	180) C0018414 - Gynatresia
111) C0032914 - Edema-Proteinuria-Hypertension Gestosis	181) C0038902 - Gynecologic Surgical Procedures
112) C0013927 - Embolism, Amniotic Fluid	182) C0043212 - Health Service, Woman's
113) C1135596 - Embryo Implantation Inhibition	183) C0043212 - Health Service, Women's
114) C1135596 - Embryo Implantation Suppression	184) C0043212 - Health Services, Woman
115) C0029977 - Embryo Implantation, Delayed 116) C0029976 - Embryo Implantations	185) C0043212 - Health Services, Woman's 186) C0043212 - Health Services, Womans
117) C0029977 - Embryo Implantations, Delayed	187) C0043212 - Health Services, Women
118) C0013936 - Embryonic Development	188) C0043212 - Health Services, Women's
119) C0014173 - Endometrial Hyperplasia	189) C0080339 - Health, Woman's
120) C0014170 - Endometrial Neoplasms	190) C0080339 - Health, Women's
121) C0014175 - Endometriosis	191) C0018811 - Heart Rate, Fetal
122) C0014175 - Endometriosis, site unspecified 123) C0014179 - Endometritis	192) C0018811 - Heart Rates, Fetal 193) C0162739 - HELLP Syndrome
124) C0007103 - Endometrium	194) C0018934 - Hematocolpos
125) C0032914 - EPH Complex	195) C0018948 - Hematometra
126) C0032914 - EPH Gestosis	196) C0018948 - Hemometra
127) C0032914 - EPH Toxemia	197) C0019343 - Herpes Gestationis
128) C0032914 - EPH Toxemias	198) C0242786 - High Risk Pregnancy
129) C0014586 - Episiotomy	199) C0242786 - High-Risk Pregnancies
130) C0014935 - Estrogen Replacement Therapy 131) C0014948 - Estrus	200) C0242786 - High-Risk Pregnancy 201) C0019857 - Home Childbirth
131) C0014946 - Estrus 132) C0014950 - Estrus Synchronization	201) C0242659 - Homosexuality, Female
133) C0015362 - Extraction, Obstetrical	203) C0043210 - Human Females
134) C0015560 - Fallopian Tube	204) C0020217 - Hydatidiform Mole
135) C0015556 - Fallopian Tube Diseases	205) C0008493 - Hydatidiform Mole, Invasive
136) C0015558 - Fallopian Tube Neoplasms	206) C0020412 - Hymen
137) C0015560 - Fallopian Tubes	207) C0020450 - Hyperemesis Gravidarum
138) C0015780 - Female	208) C0032914 - Hypertension Edema Proteinuria Gestosis
139) C0001588 - Female Adolescent 140) C0017421 - Female genitalia	209) C0340274 - Hypertension, Pregnancy-Induced 210) C0032914 - Hypertension-Edema-Proteinuria Gestosis
141) C0021361 - Female infertility	211) C0020699 - Hysterectomy
142) C0015786 - Female Sexual Arousal Disorder	212) C0020700 - Hysterectomy, Vaginal
143) C0086287 - Females	213) C1135596 - Implantation Inhibition, Blastocyst
144) C0015894 - Fertile Period	214) C1135596 - Implantation Suppression, Blastocyst
145) C0018811 - Fetal Heart Rate	215) C1135596 - Implantation Suppression, Embryo
146) C0018811 - Fetal Heart Rates	216) C0029976 - Implantation, Blastocyst
147) C0015944 - Fetal Membranes, Premature Rupture	217) C0029976 - Implantation, Embryo
148) C0887804 - Fetal Placental Circulation 149) C0887804 - Fetal-Placental Circulation	218) C0029976 - Implantation, Ovum 219) C0029977 - Implantation, Ovum, Delayed
150) C0887804 - Fetal-Placental Circulations	220) C0029977 - Implantation, Ovum, Delayed 220) C0029976 - Implantations, Blastocyst
151) C0015958 - Fetofetal Transfusion	221) C0029976 - Implantations, Embryo
	-

Female continued:	291) C0027484 - Natural Childbirth
222) C0029976 - Implantations, Ovum	292) C0496920 - Neoplasm of uncertain or unknown behavior of
223) C0600107 - Incomplete legal abortion 224) C0000810 - Incomplete spontaneous abortion	ovary 293) C0029976 - Nidation
225) C0008495 - Infection of amniotic sac and membranes	294) C0029977 - Nidation 294) C0029977 - Nidation, Delayed
226) C0021361 - Infertility, Female	295) C0029976 - Nidations
227) C0282657 - Infibulation	296) C0029977 - Nidations, Delayed
228) C0282657 - Infibulations	297) C0085166 - Nonspecific Vaginitis
229) C0242172 - Inflammatory Disease, Pelvic	298) C0011209 - Obstetric Deliveries
230) C0242172 - Inflammatory Diseases, Pelvic	299) C0011209 - Obstetric Delivery
231) C0242172 - Inflammatory Pelvic Disease	300) C0038906 - Obstetric Surgical Procedures
232) C0242172 - Inflammatory Pelvic Diseases	301) C0079924 - Oligohydramnios
233) C0269886 - Inversion of uterus during delivery	302) C0028949 - Oligomenorrhea
234) C0022783 - Kraurosis Vulvae	303) C0029051 - Oophoritis
235) C0022864 - Labor (Childbirth) 236) C0022865 - Labor Complications	304) C0029458 - Osteoporosis, Postmenopausal 305) C0029927 - Ovarian Cysts
237) C0022868 - Labor Onset	306) C0029928 - Ovarian Diseases
238) C0474368 - Labor Pain	307) C0085215 - Ovarian Failure, Premature
239) C0022869 - Labor Presentation	308) C0018120 - Ovarian Follicle
240) C0022871 - Labor Stage, First	309) C0085083 - Ovarian Hyperstimulation Syndrome
241) C0022872 - Labor Stage, Second	310) C0029936 - Ovariectomy
242) C0022873 - Labor Stage, Third	311) C0029928 - Ovary
243) C0022873 - Labor Stages, Third	312) C0015560 - Oviduct, Mammalian
244) C0022875 - Labor, Induced	313) C0015560 - Oviducts, Mammalian
245) C0022876 - Labor, Premature	314) C0029957 - Oviposition
246) C0022873 - Labor, Third Stage 247) C0006147 - Lactation	315) C0029965 - Ovulation 316) C0029976 - Ovum Implantation
248) C0022927 - Lactation Disorders	317) C0029977 - Ovum Implantation, Delayed
249) C1135969 - Large Luteal Cell	318) C0029976 - Ovum Implantations
250) C1135969 - Large Luteal Cells	319) C0029977 - Ovum Implantations, Delayed
251) C0000812 - Legal Abortion	320) C0029979 - Ovum Transport
252) C0000812 - Legal Abortions	321) C0013394 - Pain, coitus, female
253) C0242659 - Lesbian	322) C0030455 - Parametritis
254) C1533642 - Lesbians	323) C0030563 - PARITY
255) C0023533 - Leukorrhea	324) C0030584 - Parovarian Cyst
256) C0043216 - Liberation, Women's	325) C0030612 - Parturient Paresis
257) C0024156 - Luteal Cell Large	326) C0242172 - Pelvic Disease, Inflammatory 327) C0242172 - Pelvic Diseases, Inflammatory
258) C1135969 - Luteal Cell, Large 259) C1135970 - Luteal Cell, Small	328) C0242172 - Pelvic Inflammatory Diseases
260) C0024156 - Luteal Cells	329) C0993589 - Perimenopause
261) C1135969 - Luteal Cells, Large	330) C0086839 - Period, Postpartum
262) C1135970 - Luteal Cells, Small	331) C0085547 - Phenylketonuria, Maternal
263) C0024153 - Luteal Phase	332) C0032044 - Placenta Accreta
264) C0010096 - Luteal Regression	333) C0032045 - Placenta Diseases
265) C0024156 - Lutein Cell	334) C0032046 - Placenta Praevia
266) C0024156 - Lutein Cells	335) C0242669 - Placenta, Retained
267) C0010096 - Luteolysis 268) C0007847 - Malignant neoplasm of cervix uteri	336) C0032051 - Placental Insufficiency
269) C0015560 - Mammalian Oviduct	337) C0032058 - Placentation 338) C0032460 - Polycystic Ovary Syndrome
270) C0015560 - Mammalian Oviducts	339) C0020224 - Polyhydramnios
271) C0085076 - Mammaplasty	340) C1446947 - Postimplantation Embryo Development
272) C0024894 - Mastitis	341) TxLookup - Postimplantation Phase
273) C0024895 - Mastitis, Bovine	342) C0206159 - Postmenopause
274) C0243033 - Maternal Exposure	343) C0086839 - Postpartum
275) C0024929 - Maternal-Fetal Exchange	344) C0032796 - Postpartum Amenorrhea
276) C0200040 - Medical procedure on cervix	345) C0032797 - Postpartum Hemorrhage
277) C0025184 - Meigs' Syndrome 278) C0025274 - Menarche	346) C0086839 - Postpartum Period 347) C0032804 - Postpartum Women
278) C0025274 - Menarche 279) C0025320 - Menopause	348) C0032914 - Pre Eclampsia
280) C0025320 - Menopause, Premature	349) C0032914 - Pre-Eclampsia
281) C0025322 - Menorrhagia	350) C0032914 - Preeclampsia
282) C0025329 - Menstrual cycle	351) C0242786 - Pregnancies, High-Risk
283) C0016434 - Menstrual cycle, proliferative phase	352) C0032961 - Pregnancy
284) C0025344 - Menstruation	353) C0032962 - Pregnancy Complications
285) C0025345 - Menstruation Disturbances	354) C0032963 - Pregnancy Complications, Cardiovascular
286) C0025597 - Metestrus	355) C0032964 - Pregnancy Complications, Hematologic
287) C0025874 - Metrorrhagia	356) C0032965 - Pregnancy Complications, Infectious
288) C0026132 - Milk Ejection 289) C0312416 - Morning Sickness	357) C0032966 - Pregnancy Complications, Neoplastic 358) C0162494 - Pregnancy Complications, Parasitic
289) C0312416 - Morning Sickness 290) C0027088 - myometrium	358) C0162494 - Pregnancy Complications, Parasitic 359) C0032968 - Pregnancy in Adolescence
270) C0021000 - myometrum	337, C0032700 - Freguancy in Adolescence

	400) G00000 40 FF G H
Female continued:	429) C0039748 - Theca Cells
360) C0032969 - Pregnancy in Diabetics	430) C1135970 - Theca Luteal cells
361) C0032971 - Pregnancy Maintenance	431) C1135970 - Theca Lutein Cells
362) C0032972 - Pregnancy Outcome 363) C0032975 - Pregnancy Rate	432) C1135970 - Theca-Luteal cell
	433) C1135970 - Theca-Luteal cells 434) C1135970 - Theca-Lutein Cell
364) C0242836 - Pregnancy Reduction, Multifetal	
365) C0032914 - Pregnancy Toxemia	435) C1135970 - Theca-Lutein Cells
366) C0032914 - Pregnancy Toxemias 367) C0032984 - Pregnancy, Abdominal	436) C0000820 - Therapeutic Abortion
	437) C0000820 - Therapeutic Abortions
368) C0032986 - Pregnancy, Animal 369) C0032987 - Pregnancy, Ectopic	438) C0022873 - Third Labor Stage 439) C0022873 - Third Labor Stages
370) C0242786 - Pregnancy, High Risk	440) C0022873 - Third Labor Stages 440) C0022873 - Third Stage Labor
371) C0242786 - Pregnancy, High-Risk	441) C0040348 - Tocolysis
371) C0242766 - Fregnancy, Fright-Risk 372) C0032989 - Pregnancy, Multiple	442) C0032914 - Toxemia, EPH
373) C0032993 - Pregnancy, Prolonged	443) C0032914 - Toxemia, Pregnancy
374) C0032994 - Pregnancy, Tubal	444) C0032914 - Toxemias, EPH
375) C0041747 - Pregnancy, Unplanned	445) C0032914 Toxemias, Pregnancy
376) C0032995 - Pregnancy, Unwanted	446) C0040862 - Trial of Labor
377) C0549206 - Pregnant	447) C0040923 - Trichomonas Vaginitis
378) C0033011 - Pregnant Women	448) C0041182 - Trophoblastic Neoplasms
379) C1446949 - Preimplantation Embryo Development	449) C0206666 - Trophoblastic Tumor, Placental Site
380) TxLookup - Preimplantation Phase	450) C0038289 - Tubal sterilization
381) C0151526 - Premature Birth	451) C0015560 - Tube, Fallopian
382) C0206158 - Premenopause	452) C0015560 - Tube, Uterine
383) C0033046 - Premenstrual syndrome	453) C0041311 - Tuberculosis, Female Genital
384) C0033054 - Prenatal Exposure Delayed Effects	454) C0015560 - Tubes, Fallopian
385) C0033274 - Proestrus	455) C0015560 - Tubes, Uterine
386) C0032914 - Proteinuria Edema Hypertension Gestosis	456) C0080265 - Ultrasonography, Prenatal
387) C0032914 - Proteinuria-Edema-Hypertension Gestosis	457) C0032995 - Unwanted pregnancy
388) C0033778 - Pruritus Vulvae	458) C0001575 - Uterine adnexae structure
389) C0033831 - Pseudopregnancy	459) C0007874 - Uterine Cervix
390) C0034040 - Puerperal Disorders	460) C0042130 - Uterine Contraction
391) C0034041 - Puerperal Infection	461) C0042131 - Uterine Diseases
392) C0034042 - Puerperium	462) C0042134 - Uterine hemorrhage
393) C0018811 - Rate, Fetal Heart	463) C0042135 - Uterine Inertia
394) C0018811 - Rates, Fetal Heart	464) C0162482 - Uterine Inversion
395) C0034895 - Rectovaginal Fistula	465) C0040345 - Uterine Monitoring
396) C0010096 - Regression, Corpus Luteum	466) C0042138 - Uterine Neoplasms
397) C0010096 - Regression, Luteal	467) C0042139 - Uterine Perforation
398) C0206076 - Reproductive History	468) C0042140 - Uterine Prolapse
399) C0043213 - Right, Woman's	469) C0042143 - Uterine Rupture
400) C0043213 - Right, Women's	470) C0015560 - Uterine Tube
401) C0043213 - Rights, Woman's	471) C0015560 - Uterine Tubes
402) C0043213 - Rights, Women's	472) C0242622 - Uteroplacental Circulation
403) C0035877 - Round Ligament	473) C0042131 - uterus
404) C0015560 - Salpinges	474) C0042223 - Vacuum Curettage
405) C0036130 - Salpingitis	475) C0042225 - Vacuum Extraction, Obstetrical
406) C0036136 - Salpingostomy	476) C0042232 - Vagina
407) C0015560 - Salpinx	477) C0042232 - Vaginal
408) C0043212 - Service, Woman's Health	478) C0080301 - Vaginal Birth after Cesarean
409) C0043212 - Service, Women's Health	479) C0227791 - Vaginal Discharge
410) C0043212 - Services, Woman Health	480) C0042251 - Vaginal Diseases 481) C0042253 - Vaginal Fistula
411) C0043212 - Services, Woman's Health 412) C0043212 - Services, Womans Health	481) C0042255 - Vaginal Fistura 482) C0042258 - Vaginal Neoplasms
413) C0043212 - Services, Womans Health	482) C0042238 - Vaginal Neoplashis 483) C0079104 - Vaginal Smears
414) C0043212 - Services, Women's Health	484) C0042266 - Vaginismus
415) C0043212 - Services, Women's Health	485) C0085166 - Vaginitides, Bacterial
416) C1135970 - Small Luteal Cell	486) C0042267 - Vaginities
417) C1135970 - Small Luteal Cells	487) C0085166 - Vaginitis, Bacterial
418) C0037853 - Sperm-Ovum Interactions	488) C0085166 - Vaginitis, Nonspecific
419) C0000786 - Spontaneous abortion	489) C0085166 - Vaginoses, Bacterial
420) C0022873 - Stage, Third Labor	490) C0085166 - Vaginosis, Bacterial
421) C0022873 - Stages, Third Labor	491) C0042556 - Version, Fetal
422) C0043214 - Status, Women's	492) C0042582 - Vesicovaginal Fistula
423) C0038289 - Sterilization, Tubal	493) C0042993 - Vulva
424) C0010092 - Structure of corpus luteum of ovary	494) C0042994 - Vulvar Diseases
425) C0020412 - Structure of hymen	495) C0042995 - Vulvar Neoplasms
426) C0038822 - Superfetation	496) C0042996 - Vulvitis
427) C0038835 - Superovulation	497) C0042998 - Vulvovaginitis
428) C0000811 - Termination of pregnancy	498) C0043210 - Woman
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Female continued:

- 499) C0080339 Woman Health
- 500) C0043212 Woman Health Services
- 501) C0043213 Woman Rights
- 502) C0080339 Woman's Health
- 503) C0043212 Woman's Health Service
- 504) C0043212 Woman's Health Services
- 505) C0043213 Woman's Right
- 506) C0043213 Woman's Rights
- 507) C0043215 Woman, Working
- 508) C0043210 Women
- 509) C0242543 Women Groups
- 510) C0080339 Women Health

Female Trees (12):

- 1) G08.520.188 Estrous Cycle
- 2) C13.371 Genital Diseases, Female
- 3) A05.360.319 Genitalia, Female
- 4) E04.950.300 Gynecologic Surgical Procedures
- 5) G09.330.553.400.509.430 Heart Rate, Fetal
- 6) G08.520.440 Menstrual Cycle
- 7) C23.550.568 Menstruation Disturbances
- 8) E04.520 Obstetric Surgical Procedures
- 9) G08.520.734 Postpartum Period
- 10) G08.520.769 Pregnancy
- 11) C13.703 Pregnancy Complications
- 12) G08.520.769.498 Pregnancy, Animal

Cricetinae (7):

- 1) C0085080 Chinese hamster ovary cell
- 2) C0018555 Chinese Hamsters
- 3) C0085080 CHO Cells
- 4) C0018557 Cricetinae
- 5) C0010321 Cricetus
- 6) C0018557 Hamster
- 7) C0018555 Hamsters, Chinese

Cricetinae Trees (2):

- 1) A11.251.210.200 CHO Cells
- 2) B01.150.900.649.865.635.150 Cricetinae

Humans (73):

- 1) C0001487 Adenovirus Infections, Human
- 2) C0001578 Adolescence
- 3) C0205653 Adolescent
- 4) C0001675 Adult
- 5) C0001792 Aged
- 6) C0006287 Bronchopulmonary Dysplasia
- 7) C0282560 Caco-2 Cells
- 8) C0008059 Child
- 9) C0008100 Child, Preschool
- 10) C0079204 Dental Care for Aged
- 11) C0001792 Elderly
- 12) C0016539 Forefoot, Human
- 13) C0079377 Frail Elderly
- 14) C0017429 Genome, Human
- 15) C0242543 Group, Women's
- 16) C0242543 Groups, Women's
- 17) C0043212 Health Service, Woman's
- 18) C0043212 Health Service, Women's
- 19) C0043212 Health Services, Woman
- 20) C0043212 Health Services, Woman's
- 21) C0043212 Health Services, Womans
- 22) C0043212 Health Services, Women 23) C0043212 - Health Services, Women's
- 24) C0080339 Health, Woman's

- 511) C0043212 Women Health Services
- 512) C0043214 Women Status
- 513) C0242543 Women's Group
- 514) C0242543 Women's Groups
- 515) C0080339 Women's Health 516) C0043212 - Women's Health Service
- 517) C0043216 Women's Liberation
- 518) C0043213 Women's Right
- 519) C0043214 Women's Status
- 520) C0032804 Women, Postpartum
- 521) C0043215 Working Woman
- 522) C0043215 Working Women

- 25) C0080339 Health, Women's
- 26) C0018873 Hela Cells
- 27) C0282549 HL-60 Cells
- 28) C0019874 Hominidae
- 29) C0020114 Homo sapiens
- 30) C0282639 HT29 Cells
- 31) C0020114 Human
- 32) C0043210 Human Females
- 33) C0020192 Hyaline Membrane Disease
- 34) C0021270 Infant
- 35) C0021289 Infant, Newborn
- 36) C0376448 Jurkat Cells
- 37) C0022539 KB Cells
- 38) C0085429 Koro
- 39) C0025266 Male population group 40) C0024554 - MAN
- 41) C0020114 Man (Taxonomy)
- 42) C0020114 Man, Modern 43) C0025266 - Men
- 44) C0026062 Middle Age
- 45) C0020114 Modern Man
- 46) C0021289 Newborn infant
- 47) C0029458 Osteoporosis, Postmenopausal
- 48) C0030705 Patient

Humans continued:

- 49) C0030705 Patients
- 50) C0031190 Persistent Fetal Circulation Syndrome
- 51) C0043212 Service, Woman's Health
- 52) C0043212 Service, Women's Health
- 53) C0043212 Services, Woman Health
- 54) C0043212 Services, Woman's Health
- 55) C0043212 Services, Womans Health
- 56) C0043212 Services, Women Health
- 57) C0043212 Services, Women's Health
- 58) C0043212 Services, Womens Health
- 59) C0000786 Spontaneous abortion
- 60) C0043210 Woman
- **Humans Trees (4):**
 - 1) M01.060 Age Groups
 - 2) A01.378.610.250.149 Ankle
 - 3) A11.284.187.520.300 Chromosomes, Human
 - 4) A01.378.610.250.300 Forefoot, Human

Infant (3):

- 1) TxLookup babies
- 2) C0021270 Baby
- 3) C0021270 Infant

Infant, Newborn (29):

- 1) C0002636 Amniotic Band Syndrome
- 2) C0002891 Anemia, Neonatal
- 3) C0004045 Asphyxia Neonatorum
- 4) C0006287 Bronchopulmonary Dysplasia
- 5) C0014761 Erythroblastosis, Fetal
- 6) C0019088 Hemorrhagic Disease of Newborn
- 7) C0020192 Hyaline Membrane Disease
- 8) C0021289 Infant, Newborn
- 9) C0021290 Infant, Newborn, Diseases
- 10) C0021295 Infant, Premature, Diseases
- 11) C0021289 Infants, Newborn
- 12) C0021709 Intensive Care Units, Neonatal
- 13) C0021711 Intensive Care, Neonatal
- 14) C0022353 Jaundice, Neonatal
- 15) C0023529 Leukomalacia, Periventricular
- 16) C0025048 Meconium Aspiration
- 17) C0027609 Neonatal Abstinence Syndrome
- 18) C0079893 Neonatal Nursing
- 19) C0027617 Neonatal Screening
- 20) C0021289 Neonate
- 21) C0021289 Newborn
- 22) C0021289 Newborn infant
- 23) C0021289 Newborn Infants
- 24) C0021289 Newborns
- 25) C0029076 Ophthalmia Neonatorum
- 26) C0031190 Persistent Fetal Circulation Syndrome
- 27) C0035220 Respiratory Distress Syndrome, Newborn
- 28) C0035344 Retinopathy of Prematurity
- 29) C0036415 Sclerema Neonatorum

Infant, Newborn Trees (2):

- 1) M01.060.703.520 Infant, Newborn
- 2) C16.614.521 Infant, Premature, Diseases

In Vitro (3):

- 1) C1449561 Embryo Culture Techniques
- 2) C0021135 In Vitro
- 3) TxLookup invitro

- 61) C0080339 Woman Health
- 62) C0043212 Woman Health Services
- 63) C0080339 Woman's Health
- 64) C0043212 Woman's Health Service
- 65) C0043212 Woman's Health Services
- 66) C0043210 Women
- 67) C0242543 Women Groups
- 68) C0080339 Women Health
- 69) C0043212 Women Health Services
- 70) C0242543 Women's Group
- 71) C0242543 Women's Groups
- 72) C0080339 Women's Health
- 73) C0043212 Women's Health Service

Male (144):	
1) C0524605 - Accessory Sex Organs, Male	69) C0017422 - Male Genital Organs
2) C0403766 - Acquired phimosis	70) C0017422 - Male Genitalia
3) C0001216 - Acrosome	71) C0242658 - Male Homosexuality
4) C0001589 - Adolescent, Male	72) C0025266 - Male population group
5) C0039585 - Androgen Insensitivity Syndrome	73) C0153604 - Malignant neoplasm of scrotum
6) C0936016 - Androgen Insensitivity Syndrome, Complete	74) C0024554 - MAN
7) C0268301 - Androgen Insensitivity Syndrome, Partial	75) C0025266 - Men
8) C0039585 - Androgen-Insensitivity Syndrome	76) C0428003 - Observation of motility of sperm
9) C0936016 - Androgen-Insensitivity Syndrome, Complete	77) C0028960 - Oligospermia
10) C0268301 - Androgen-Insensitivity Syndrome, Partial	78) C0029191 - Orchitis
11) C0268301 - Androgen-Insensitivity Syndromes, Partial	79) C0017422 - Organs, Male Genital
12) C0232984 - Andropause	80) C0030483 - Paraphimosis
13) C0004690 - Balanitis	81) C0243034 - Paternal Exposure
14) TxLookup - boy	82) C0030846 - Penile Diseases
15) C0242788 - Breast Neoplasms, Male	83) C0030847 - Penile Erection
16) C0006366 - Bulbourethral gland structure	84) C0030848 - Penile Induration
17) C0006366 - Bulbourethral Glands	85) C0030848 - Penile Indurations
18) C0030848 - Cavernitides, Fibrous	86) C0030849 - Penile Neoplasms
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19) C0030848 - Cavernitis, Fibrous	87) C0030846 - penis
20) C0008819 - Circumcision	88) C0030848 - Peyronie Disease
21) C0008819 - Circumcision, Male	89) C0030848 - Peyronie's Disease
22) C0008819 - Circumcisions	90) C0030848 - Peyronies Disease
23) C0079341 - Circumcisions, Female	91) C0031538 - Phimosis
24) C0008819 - Circumcisions, Male	92) C0033117 - Priapism
25) C0195076 - Clitorectomies	93) C0033572 - Prostate
26) C0195076 - Clitorectomy	94) C0033573 - Prostatectomy
27) C0195076 - Clitoridectomies	95) C0033575 - Prostatic Diseases
28) C0195076 - Clitoridectomy	96) C0005001 - Prostatic Hypertrophy, Benign
29) C0345326 - Congenital phimosis	97) C0033578 - Prostatic Neoplasms
30) C0010417 - Cryptorchidism	98) C0033581 - Prostatitis
31) C0268919 - Disease of scrotum	99) C0034919 - Redundant prepuce and phimosis NOS
32) C0268896 - Disease of seminal vesicle	100) C0268301 - Reifenstein Syndrome
33) C0030848 - Disease, Peyronie	101) C0268301 - Reifenstein's Syndrome
34) C0030848 - Disease, Peyronie's	102) C0268301 - Reifensteins Syndrome
35) C0013746 - Ejaculation	103) C0035278 - Rete Testis
36) C0013747 - Ejaculatory duct structure	104) C0036471 - Scrotum
37) C0013747 - Ejaculatory Ducts	105) C0036628 - Seminal Vesicles
38) C0678217 - Encounter due to sperm count	106) C0036629 - Seminiferous Epithelium
	107) C0036630 - Seminiferous tubule structure
39) C0014533 - Epididymis	•
40) C0700113 - Epididymis disorders	108) C0036630 - Seminiferous Tubules
41) C0014534 - Epididymitis	109) C0036770 - Sertoli Cells
42) C0079341 - Female Circumcision	110) C0524605 - Sex Organs, Accessory, Male
43) C0079341 - Female Circumcisions	111) C0037839 - Sperm Agglutination
44) C0030848 - Fibrous Cavernitides	112) C0037840 - Sperm Banks
45) C0030848 - Fibrous Cavernitis	113) C0037841 - Sperm Capacitation
46) C0019898 - Gay	114) C0037842 - Sperm Count
47) C0242657 - Gays	115) C0037842 - Sperm Count Procedure
48) C0017412 - Genital Diseases, Male	116) C0037844 - Sperm Head
49) C0403893 - Genital Mutilation, Female	117) C0037846 - Sperm Maturation
50) C0017417 - Genital Neoplasms, Male	118) C0037848 - Sperm Motility
51) C0017422 - Genital Organs, Male	119) C0037842 - Sperm number
52) C0017422 - Genitalia, Male	120) C0037851 - Sperm Tail
53) C0018418 - Gynecomastia	121) C0037852 - Sperm Transport
54) C0018931 - Hematocele	122) C0037853 - Sperm-Ovum Interactions
55) C0018931 - Hematocele of tunica vaginalis testis	123) C0037855 - Spermatic Cord
56) C0242658 - HOMOSEXUALITY, MALE	124) C0037856 - Spermatic Cord Torsion
57) C0020252 - Hydrocele	125) C0037857 - Spermatic Cord Torsion
58) C0020646 - Hypospadias	126) C0037859 - Spermatocele
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59) C0021116 - Impotence	127) C0037863 - Spermatocytes
60) C0243000 - Impotence, Vasculogenic	128) C0037864 - Spermatogenesis
61) C0030848 - Induration, Penile	129) C0037866 - Spermatogonia
62) C0030848 - Indurations, Penile	130) C0037868 - Spermatozoa
63) C0021364 - Infertility, Male	131) C0023602 - Structure of interstitial cell of Leydig
64) C0085429 - Koro	132) C0035278 - Structure of rete testis
65) C0023602 - Leydig Cells	133) C0036770 - Structure of sertoli cell
66) C0024554 - Male	134) C0036629 - Structure of spermatogenic epithelium
67) C0008819 - Male Circumcision	135) C0039584 - Testicular Diseases
(0) (00000010 34.1 ()	
68) C0008819 - Male Circumcisions	136) C0936016 - Testicular Feminization

Male continued:

- 137) C0039590 Testicular Neoplasms
- 138) C0039597 Testis
- 139) C0041317 Tuberculosis, Male Genital
- 140) C0038914 Urologic Surgical Procedures, Male

Male Trees (7):

- 1) G08.520.084 Ejaculation
- 2) C12.294 Genital Diseases, Male
- 3) A05.360.444 Genitalia, Male
- 4) G08.520.717 Penile Erection
- 5) G08.520.310.760 Spermatogenesis
- 6) A11.497.760 Spermatozoa
- 7) E04.950.774.860 Urologic Surgical Procedures, Male

Mice (306):

- 1) C0085087 3T3 Cells
- 2) C0025918 AKR Mice
- 3) C0025918 AKR Mice, Inbred
- 4) C0025918 AKR Mouse
- 5) C0025918 AKR Mouse, Inbred
- 6) C0025932 Athymic Mice
- 7) C0025932 Athymic Mouse
- 8) C0025919 BALB C Mice
- 9) C0025919 BALB C Mice, Inbred
- 10) C0025919 BALB C Mouse
- 11) C0025919 BALB C Mouse, Inbred
- 12) C1136222 Biozzi Mice
- 13) C0025920 C3H Mice
- 14) C0025920 C3H Mice, Inbred
- 15) C0025920 C3H Mouse
- 16) C0025920 C3H Mouse, Inbred
- 17) C0025921 C57BL Mice
- 18) C0025921 C57BL Mice, Inbred
- 19) C0025921 C57BL Mouse
- 20) C0025921 C57BL Mouse, Inbred
- 21) C0025922 CBA Mice
- 21) C0025922 CBA Mice, Inbred
- 23) C0025922 CBA Mouse
- 24) C0025922 CBA Mouse, Inbred
- 25) C0206610 CFTR Mice
- 26) C0206610 CFTR Mice, Inbred
- 27) C0206610 CFTR Mouse
- 28) C0206610 CFTR Mouse, Inbred
- 29) C0600530 Congenic Mice
- 30) C0025923 DBA Mice
- 31) C0025923 DBA Mice, Inbred
- 32) C0025923 DBA Mouse
- 33) C0025923 DBA Mouse, Inbred
- 34) C0085243 Diabetic Mice, Non-Obese
- 35) C0085243 Diabetic Mice, Nonobese
- 36) C0085243 Diabetic Mouse, Non-Obese
- 37) C0085243 Diabetic Mouse, Nonobese
- 38) C0751318 domesticus, Mus
- 39) C0751318 domesticus, Mus musculus
- 40) C1450009 Founder Mice, Transgenic
- 41) C0025924 Hairless Mice
- 42) C0025924 Hairless Mouse
- 43) C0025914 House Mice
- 44) C0025914 House Mouse
- 45) C0025924 HRS Mice
- 46) C0025924 HRS Mice, Inbred
- 47) C0025924 HRS Mouse
- 48) C0025924 HRS Mouse, Inbred
- 49) C0162418 Hyperglycemic Mice 50) C0162418 - Hyperglycemic Mouse
- 51) C0025925 ICR Mice
- 52) C0025925 ICR Mice, Inbred

- 141) C0042341 Varicocele
- 142) C0042360 Vas Deferens
- 143) C0042360 Vas deferens structure
- 144) C0042421 Vasovasostomy

- 53) C0025925 ICR Mouse
- 54) C0025925 ICR Mouse, Inbred
- 55) C0524641 ICRC Mice, Inbred
- 56) C0524641 ICRC Mouse, Inbred
- 57) C0085112 Immunodeficient Mice, Severe Combined
- 58) C0025917 Inbred A Mice
- 59) C0025917 Inbred A Mouse
- 60) C0025918 Inbred AKR Mice
- 61) C0025918 Inbred AKR Mouse
- 62) C0025919 Inbred BALB C Mice
- 63) C0025919 Inbred BALB C Mouse
- 64) C0025920 Inbred C3H Mice
- 65) C0025920 Inbred C3H Mouse
- 66) C0025921 Inbred C57BL Mice
- 67) C0025921 Inbred C57BL Mouse
- 68) C0025922 Inbred CBA Mice
- 69) C0025922 Inbred CBA Mouse
- 70) C0206610 Inbred CFTR Mice
- 71) C0206610 Inbred CFTR Mouse 72) C0025923 - Inbred DBA Mice
- 73) C0025923 Inbred DBA Mouse
- 74) C0025924 Inbred HRS Mice
- 75) C0025924 Inbred HRS Mouse
- 76) C0025925 Inbred ICR Mice
- 77) C0025925 Inbred ICR Mouse
- 78) C0524641 Inbred ICRC Mice
- 79) C0524641 Inbred ICRC Mouse
- 80) C0206535 Inbred mdx Mice
- 81) C0206535 Inbred mdx Mouse
- 82) C0025927 Inbred Mouse Strain
- 83) C0025927 Inbred Mouse Strains 84) C0085243 - Inbred NOD Mice
- 85) C0085243 Inbred NOD Mouse
- 86) C0025926 Inbred NZB Mice
- 87) C0025926 Inbred NZB Mouse 88) C0242854 - Inbred SENCAR Mice
- 89) C0242854 Inbred SENCAR Muse
- 90) C0025927 Inbred Strain of Mice
- 91) C0025927 Inbred Strain of Mouse
- 92) C0025927 Inbred Strain of Mouse 92) C0025927 - Inbred Strains of Mice
- 93) C0025927 Hibred Strains of Wild 93) C0025928 - Jimpy Mice
- 94) C0206745 Knock-out Mice
- 95) C0206745 Knockout Mice 96) C0206745 - Knockout Mouse
- 97) C0022827 L Cells (Cell Line)
- 98) C0025929 Laboratory Mice
- 99) C0025929 Laboratory Mouse
- 100) C0376632 lpr Mice, MRL
- 101) C0376632 lpr Mouse, MRL 102) C0024148 - Lurcher Mice
- 103) C0024148 Lurcher Mouse
- 104) C0206535 mdx Mice

Mice continued:	174) C0026200 - Minute Virus, Mice
105) C0206535 - mdx Mice, Inbred	175) C0026200 - Minute Viruses, Mice
106) C0206535 - mdx Mouse	176) C0025914 - Mouse
107) C0206535 - mdx Mouse, Inbred	177) C0025917 - Mouse Inbred Strain
108) C0025914 - Mice	178) C0025927 - Mouse Inbred Strains
109) C0026200 - Mice Minute Viruses	179) C0025930 - Mouse Mutant Strain
110) C0025930 - Mice Mutant Strain	180) C0025930 - Mouse Mutant Strains
111) C0025930 - Mice Mutant Strains	181) C0025927 - Mouse Strain, Inbred
112) C0025918 - Mice, AKR	182) C0025930 - Mouse Strain, Mutant
113) C0025932 - Mice, Athymic	183) C0025927 - Mouse Strains, Inbred
114) C0025919 - Mice, BALB C	184) C0025930 - Mouse Strains, Mutant
115) C0025920 - Mice, C3H	185) C0025918 - Mouse, AKR
116) C0025921 - Mice, C57BL	186) C0025932 - Mouse, Athymic
117) C0025922 - Mice, CBA	187) C0025919 - Mouse, BALB C
118) C0206610 - Mice, CFTR	188) C0025920 - Mouse, C3H
119) C0600530 - Mice, Congenic	189) C0025921 - Mouse, C57BL
120) C0025923 - Mice, DBA	190) C0025922 - Mouse, CBA
121) C0025924 - Mice, Hairless	191) C0206610 - Mouse, CFTR
122) C0025914 - Mice, House	192) C0025923 - Mouse, DBA
123) C0025924 - Mice, HRS	193) C1450009 - Mouse, Founder, Transgenic
124) C0162418 - Mice, Hyperglycemic	194) C0025924 - Mouse, Hairless
125) C0025925 - Mice, ICR	195) C0025914 - Mouse, House
126) C0025917 - Mice, Inbred A	196) C0025924 - Mouse, HRS
127) C0025917 Mice, Indred AKR	197) C0162418 - Mouse, Hyperglycemic
128) C0025919 - Mice, Inbred BALB C	198) C0025925 - Mouse, ICR
129) C0025917 Mice, Indred BALD C	199) C0025917 - Mouse, Inbred A
130) C0025920 - Mice, Indied C511 130) C0025921 - Mice, Inbred C57BL	200) C0025918 - Mouse, Inbred AKR
131) C0025922 - Mice, Inbred CBA	201) C0025919 - Mouse, Inbred BALB C
132) C0206610 - Mice, Inbred CFTR	202) C0025920 - Mouse, Inbred C3H
133) C0025923 - Mice, Inbred DBA	203) C0025920 - Mouse, Inbred C57BL
134) C0025924 - Mice, Inbred HRS	204) C0025922 - Mouse, Inbred CBA
135) C0025925 - Mice, Inbred ICR	205) C0206610 - Mouse, Inbred CFTR
136) C0524641 - Mice, Inbred ICRC	206) C0025923 - Mouse, Inbred DBA
137) C0206535 - Mice, Inbred mdx	207) C0025924 - Mouse, Inbred HRS
138) C0376632 - Mice, Inbred MRL lpr	208) C0025925 - Mouse, Inbred ICR
139) C0085243 - Mice, Inbred NOD	209) C0524641 - Mouse, Inbred ICRC
140) C0025926 - Mice, Inbred NZB	210) C0206535 - Mouse, Inbred mdx
141) C0242854 - Mice, Inbred SENCAR	211) C0376632 - Mouse, Inbred MRL lpr
142) C0025927 - Mice, Inbred Strains	212) C0085243 - Mouse, Inbred NOD
143) C0025928 - Mice, Jimpy	213) C0025926 - Mouse, Inbred NZB
144) C0206745 - Mice, Knock out	214) C0242854 - Mouse, Inbred SENCAR
145) C0206745 - Mice, Knock-out	215) C0025927 - Mouse, Inbred Strain
146) C0206745 - Mice, Knockout	216) C0206745 - Mouse, Knockout
147) C0025929 - Mice, Laboratory	217) C0025929 - Mouse, Laboratory
148) C0024148 - Mice, Lurcher	218) C0024148 - Mouse, Lurcher
149) C0206535 - Mice, mdx	219) C0206535 - Mouse, mdx
150) C0376632 - Mice, MRL lpr	220) C0376632 - Mouse, MRL lpr
151) C0025930 - Mice, Mutant Strains	221) C0025930 - Mouse, Mutant Strain
152) C0027762 - Mice, Nervous	222) C0027762 - Mouse, Nervous
153) C0025931 - Mice, Neurologic Mutant	223) C0025931 - Mouse, Neurologic Mutant
154) C0025931 - Mice, Neurologic Mutants	224) C0025931 - Mouse, Neurological Mutant
155) C0025931 - Mice, Neurological Mutants	225) C0085243 - Mouse, NOD
156) C0085243 - Mice, NOD	226) C0085243 - Mouse, Non-Obese Diabetic
157) C0085243 - Mice, Non-Obese Diabetic	227) C0085243 - Mouse, Nonobese Diabetic
158) C0085243 - Mice, Nonobese Diabetic	228) C0025932 - Mouse, Nude
159) C0025932 - Mice, Nude	229) C0025926 - Mouse, NZB
160) C0025926 - Mice, NZB	230) C0025933 - Mouse, Obese
161) C0025933 - Mice, Obese	231) C0034921 - Mouse, Reeler
162) C0025934 - Mice, Quaking	232) C0085112 - Mouse, SCID
163) C0034921 - Mice, Reeler	233) C0086962 - Mouse, SCID hu
164) C0085112 - Mice, SCID	234) C0086962 - Mouse, SCID-hu
165) C0086962 - Mice, SCID-hu	235) C0242854 - Mouse, SENCAR
166) C0242854 - Mice, SENCAR	236) C0038125 - Mouse, Staggerer
167) C0038125 - Mice, Staggerer	237) C0162416 - Mouse, Swiss
168) C0162416 - Mice, Swiss	238) C0025936 - Mouse, Transgenic
169) C0025936 - Mice, Transgenic	239) C0043086 - Mouse, Weaver
170) C1450009 - Mice, Transgenic Founder	240) C0376632 - MRL lpr Mice
171) C0043086 - Mice, Weaver	241) C0376632 - MRL lpr Mouse
172) C0025938 - Micelle	242) C0019185 - Murine hepatitis virus
173) C0026200 - Minute Virus of Mice	243) C0026809 - Mus
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	AREA GOODEROOK NURDAN
Mice continued:	275) C0025926 - NZB Mouse
244) C0751318 - Mus domesticus	276) C0025926 - NZB Mouse, Inbred
245) C0025914 - Mus musculus	277) C0025933 - Obese Mice
246) C0751318 - Mus musculus domesticus	278) C0025933 - Obese Mouse
247) C0751318 - musculus domesticus, Mus	279) C0025934 - Quaking Mice
248) C0025931 - Mutant Mice, Neurologic	280) C0034921 - Reeler Mice
249) C0025930 - Mutant Mouse Strain	281) C0034921 - Reeler Mouse
250) C0025930 - Mutant Mouse Strains	282) C0086962 - SCID hu Mice
251) C0025931 - Mutant Mouse, Neurologic	283) C0085112 - SCID Mice
252) C0025930 - Mutant Strain Mouse	284) C0085112 - SCID Mouse
253) C0025930 - Mutant Strain of Mouse	285) C0086962 - SCID-hu Mice
254) C0025930 - Mutant Strains Mice	286) C0086962 - SCID-hu Mouse
255) C0025930 - Mutant Strains of Mice	287) C0242854 - SENCAR Mice
256) C0027762 - Nervous Mice	288) C0242854 - SENCAR Mice, Inbred
257) C0027762 - Nervous Mouse	289) C0242854 - SENCAR Mouse
258) C0025931 - Neurologic Mutant Mice	290) C0242854 - SENCAR Mouse, Inbred
259) C0025931 - Neurologic Mutant Mouse	291) C0085112 - Severe Combined Immunodeficient Mice
260) C0025931 - Neurological Mutant Mouse	292) C0038125 - Staggerer Mice
261) C0085243 - NOD Mice	293) C0038125 - Staggerer Mouse
262) C0085243 - NOD Mice, Inbred	294) C0025930 - Strain Mouse, Mutant
263) C0085243 - NOD Mouse	295) C0025927 - Strain, Inbred Mouse
264) C0085243 - NOD Mouse, Inbred	296) C0025930 - Strain, Mutant Mouse
265) C0085243 - Non Obese Diabetic Mice	297) C0025930 - Strains Mice, Mutant
266) C0085243 - Non Obese Diabetic Mouse	298) C0025927 - Strains, Inbred Mouse
267) C0085243 - Non-Obese Diabetic Mice	299) C0025930 - Strains, Mutant Mouse
268) C0085243 - Non-Obese Diabetic Mouse	300) C0162416 - Swiss Mice
269) C0085243 - Nonobese Diabetic Mice	301) C0162416 - Swiss Mouse
270) C0085243 - Nonobese Diabetic Mouse	302) C1450009 - Transgenic Founder Mice
271) C0025932 - Nude Mice	303) C0025936 - Transgenic Mice
272) C0025932 - Nude Mouse	304) C0025936 - Transgenic Mouse
273) C0025926 - NZB Mice	305) C0043086 - Weaver Mice
274) C0025926 - NZB Mice, Inbred	306) C0043086 - Weaver Mouse
Mice Trees (3): 1) A11 251 210 700 - 3T3 Cells	
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice	
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line)	
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line)	
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice	30) C0032914 - Edema-Proteinuria-Hypertension Gestosis
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159):	30) C0032914 - Edema-Proteinuria-Hypertension Gestosis 31) C0013927 - Embolism, Amniotic Fluid
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion	
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand	31) C0013927 - Embolism, Amniotic Fluid
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed	 31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic	 31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened	 31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary	 31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic	 31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Septic 7) C0000823 - Abortion, Veterinary 9) C0000820 - Abortion, Threatened 8) C0000820 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000823 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Theratened 8) C0000823 - Abortion, Therapeutic 10) C0000832 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulations 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abrutio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulations 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulations 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation 47) C0235660 - Galactorrhea
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental 20) C0887804 - Circulation, Fetoplacental	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulations 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulations 46) C0887804 - Fetoplacental Circulations 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension
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1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Threatened 8) C0000823 - Abortion, Therapeutic 10) C0000832 - Abortions, Therapeutic 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Chorioarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental 20) C0887804 - Circulation, Fetoplacental 21) C0887803 - Circulation, Placental	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension 49) C0032914 - Gestosis, EPH 50) C0032914 - Gestosis, Hypertension-Edema-Proteinuria 51) C0032914 - Gestosis, Proteinuria-Edema-Hypertension
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1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Chorioarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental 20) C0887804 - Circulation, Fetoplacental 21) C0887804 - Circulation, Placental 22) C0242622 - Circulation, Uteroplacental 23) C0887804 - Circulations, Fetal-Placental	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension 49) C0032914 - Gestosis, EPH 50) C0032914 - Gestosis, Hypertension-Edema-Proteinuria 51) C0032914 - Gestosis, Proteinuria-Edema-Hypertension 52) C0018811 - Heart Rate, Fetal
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000820 - Abortions, Therapeutic 10) C0000832 - Abortions, Therapeutic 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma 18) C00887804 - Circulation, Fetal-Placental 20) C0887804 - Circulation, Fetal-Placental 21) C0887804 - Circulation, Placental 22) C0242622 - Circulation, Uteroplacental 23) C0887804 - Circulations, Fetal-Placental 24) C0887804 - Circulations, Fetal-Placental 25) C0010095 - Corpus Luteum Maintenance	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemia 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension 49) C0032914 - Gestosis, Hypertension-Edema-Proteinuria 51) C0032914 - Gestosis, Proteinuria-Edema-Hypertension 52) C0018811 - Heart Rate, Fetal 53) C0018811 - Heart Rates, Fetal 54) C0162739 - HELLP Syndrome
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000832 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental 20) C0887804 - Circulation, Fetal-Placental 21) C0887803 - Circulation, Placental 22) C0242622 - Circulation, Uteroplacental 23) C0887804 - Circulations, Fetal-Placental 24) C0887804 - Circulations, Fetal-Placental 25) C0010095 - Corpus Luteum Maintenance 26) C0085207 - Diabetes, Gestational	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension 49) C0032914 - Gestosis, Hypertension-Edema-Proteinuria 51) C0032914 - Gestosis, Proteinuria-Edema-Hypertension 52) C0018811 - Heart Rate, Fetal 53) C0018811 - Heart Rates, Fetal 54) C0162739 - HELLP Syndrome 55) C0019343 - Herpes Gestationis
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Veterinary 9) C0000823 - Abortion, Veterinary 9) C0000832 - Abortion, Threatened 8) C0000832 - Abortion, Therapeutic 10) C0000832 - Abortion Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental 20) C0887803 - Circulation, Fetal-Placental 21) C0887803 - Circulation, Placental 22) C0242622 - Circulation, Uteroplacental 23) C0887804 - Circulations, Fetal-Placental 24) C0887804 - Circulations, Fetal-Placental 25) C0010095 - Corpus Luteum Maintenance 26) C0085207 - Diabetes, Gestational 27) C0013418 - Dystocia	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rate 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulations 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension 49) C0032914 - Gestosis, EPH 50) C0032914 - Gestosis, Proteinuria-Edema-Proteinuria 51) C0032914 - Gestosis, Proteinuria-Edema-Hypertension 52) C0018811 - Heart Rate, Fetal 53) C0018811 - Heart Rates, Fetal 54) C0162739 - HELLP Syndrome 55) C0019343 - Herpes Gestationis 56) C0242786 - High Risk Pregnancy
1) A11.251.210.700 - 3T3 Cells 2) A11.251.210.505 - L Cells (Cell Line) 3) B01.150.900.649.865.635.505.500 - Mice Pregnancy (159): 1) C0000786 - Abortion 2) C0000793 - Abortion on Demand 3) C0000806 - Abortion, Eugenic 4) C0000809 - Abortion, Habitual 5) C0000814 - Abortion, Missed 6) C0000817 - Abortion, Septic 7) C0000821 - Abortion, Threatened 8) C0000823 - Abortion, Veterinary 9) C0000832 - Abortions, Therapeutic 10) C0000832 - Abruptio Placentae 11) C0342008 - Amniotic fluid pulmonary embolism 12) C0006157 - Breech Presentation 13) C0600454 - Cervical Ripening 14) C0007871 - Cervix Incompetence 15) TxLookup - cesarean 16) C0008495 - Chorioamnionitis 17) C0008497 - Choriocarcinoma 18) C0008509 - Chorionic Villi Sampling 19) C0887804 - Circulation, Fetal-Placental 20) C0887804 - Circulation, Fetal-Placental 21) C0887803 - Circulation, Placental 22) C0242622 - Circulation, Uteroplacental 23) C0887804 - Circulations, Fetal-Placental 24) C0887804 - Circulations, Fetal-Placental 25) C0010095 - Corpus Luteum Maintenance 26) C0085207 - Diabetes, Gestational	31) C0013927 - Embolism, Amniotic Fluid 32) C0013936 - Embryonic Development 33) C0032914 - EPH Complex 34) C0032914 - EPH Gestosis 35) C0032914 - EPH Toxemia 36) C0032914 - EPH Toxemias 37) C0018811 - Fetal Heart Rate 38) C0018811 - Fetal Heart Rates 39) C0015944 - Fetal Membranes, Premature Rupture 40) C0887804 - Fetal Placental Circulation 41) C0887804 - Fetal-Placental Circulation 42) C0887804 - Fetal-Placental Circulation 43) C0015958 - Fetofetal Transfusion 44) C0015959 - Fetomaternal Transfusion 45) C0887804 - Fetoplacental Circulation 46) C0887804 - Fetoplacental Circulation 47) C0235660 - Galactorrhea 48) C0032914 - Gestosis, Edema-Proteinuria-Hypertension 49) C0032914 - Gestosis, Hypertension-Edema-Proteinuria 51) C0032914 - Gestosis, Proteinuria-Edema-Hypertension 52) C0018811 - Heart Rate, Fetal 53) C0018811 - Heart Rates, Fetal 54) C0162739 - HELLP Syndrome 55) C0019343 - Herpes Gestationis

Pregnancy continued:	109) C0032971 - Pregnancy Maintenance
59) C0020217 - Hydatidiform Mole	110) C0032972 - Pregnancy Outcome
60) C0008493 - Hydatidiform Mole, Invasive	111) C0032975 - Pregnancy Rate
61) C0020450 - Hyperemesis Gravidarum	112) C0242836 - Pregnancy Reduction, Multifetal
62) C0032914 - Hypertension Edema Proteinuria Gestosis	113) C0032914 - Pregnancy Toxemia
63) C0340274 - Hypertension, Pregnancy-Induced	114) C0032914 - Pregnancy Toxemias
64) C0032914 - Hypertension-Edema-Proteinuria Gestosis	115) C0032984 - Pregnancy, Abdominal
65) C0600107 - Incomplete legal abortion	116) C0032986 - Pregnancy, Animal
66) C0000810 - Incomplete spontaneous abortion	117) C0032987 - Pregnancy, Ectopic
67) C0008495 - Infection of amniotic sac and membranes	118) C0242786 - Pregnancy, High Risk
68) C0022864 - Labor (Childbirth)	119) C0242786 - Pregnancy, High-Risk
69) C0022865 - Labor Complications	120) C0032989 - Pregnancy, Multiple
70) C0022868 - Labor Onset	121) C0032993 - Pregnancy, Prolonged
71) C0474368 - Labor Pain	122) C0032994 - Pregnancy, Tubal
72) C0022869 - Labor Presentation	123) C0041747 - Pregnancy, Unplanned
73) C0022871 - Labor Stage, First	124) C0032995 - Pregnancy, Unwanted
74) C0022872 - Labor Stage, Second	125) C0549206 - Pregnant
75) C0022873 - Labor Stage, Third	126) C0033011 - Pregnant Women
76) C0022873 - Labor Stages, Third	127) C1446949 - Preimplantation Embryo Development
77) C0022875 - Labor, Induced	128) TxLookup - Preimplantation Phase
78) C0022876 - Labor, Premature	129) C0151526 - Premature Birth
79) C0022873 - Labor, Third Stage	130) C0033054 - Prenatal Exposure Delayed Effects
80) C0024929 - Maternal-Fetal Exchange	131) C0032914 - Proteinuria Edema Hypertension Gestosis
81) C0312416 - Morning Sickness	132) C0032914 - Proteinuria-Edema-Hypertension Gestosis
82) C0079924 - Oligohydramnios	133) C0018811 - Rate, Fetal Heart
83) C0030563 - PARITY	134) C0018811 - Rates, Fetal Heart
84) C0030612 - Parturient Paresis	135) C0000786 - Spontaneous abortion
85) C0085547 - Phenylketonuria, Maternal	136) C0022873 - Stage, Third Labor
86) C0032044 - Placenta Accreta	137) C0022873 - Stages, Third Labor
87) C0032045 - Placenta Diseases	138) C0038822 - Superfectation
88) C0032046 - Placenta Praevia	139) C0000811 - Termination of pregnancy
89) C0242669 - Placenta, Retained	141) C0000820 - Therapeutic Abortion
90) C0032051 - Placental Insufficiency 91) C0032058 - Placentation	141) C0000820 - Therapeutic Abortions 142) C0022873 - Third Labor Stage
92) C0020224 - Polyhydramnios	142) C0022873 - Third Labor Stage 143) C0022873 - Third Labor Stages
93) C1446947 - Postimplantation Embryo Development	144) C0022873 - Third Labor Stages
94) TxLookup - Postimplantation Phase	145) C0040348 - Tocolysis
95) C0032797 - Postpartum Hemorrhage	146) C0032914 - Toxemia, EPH
96) C0032914 - Pre Eclampsia	147) C0032914 - Toxemia, Pregnancy
97) C0032914 - Pre-Eclampsia	148) C0032914 - Toxemias, EPH
98) C0032914 - Preeclampsia	149) C0032914 - Toxemias, Pregnancy
99) C0242786 - Pregnancies, High-Risk	150) C0040862 - Trial of Labor
100) C0032961 - Pregnancy	151) C0041182 - Trophoblastic Neoplasms
101) C0032962 - Pregnancy Complications	152) C0206666 - Trophoblastic Tumor, Placental Site
102) C0032963 - Pregnancy Complications, Cardiovascular	153) C0080265 - Ultrasonography, Prenatal
103) C0032964 - Pregnancy Complications, Hematologic	154) C0032995 - Unwanted pregnancy
104) C0032965 - Pregnancy Complications, Infectious	155) C0042130 - Uterine Contraction
105) C0032966 - Pregnancy Complications, Neoplastic	156) C0042135 - Uterine Inertia
106) C0162494 - Pregnancy Complications, Parasitic	157) C0040345 - Uterine Monitoring
107) C0032968 - Pregnancy in Adolescence	158) C0042143 - Uterine Rupture
108) C0032969 - Pregnancy in Diabetics	159) C0242622 - Uteroplacental Circulation
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Pregnancy Trees (5):	
1) G09.330.553.400.509.430 - Heart Rate, Fetal	
2) G08.520.734 - Postpartum Period	
3) G08.520.769 - Pregnancy	
4) C13.703 - Pregnancy Complications	
5) G08.520.769.498 - Pregnancy, Animal	
Rabbits (1):	
1) C0034493 - Rabbit	
Rats (238):	
1) C0034698 - ACI Rat	5) C0034713 - Athymic Rat
2) C0034698 - ACI Rat, Inbred	6) C0034713 - Athymic Rats
3) C0034698 - ACI Rats	7) C0524710 - August Rat
4) C0034698 - ACI Rats, Inbred	8) C0524710 - August Rats

The state of the s	70) C0024704 I 1 1 1 C ' CD 4
Rats continued:	78) C0034706 - Inbred Strains of Rats
9) C0034699 - BB Rat	79) C0034706 - Inbred Strains Rat
10) C0034699 - BB Rat, Inbred	80) C0034706 - Inbred Strains Rats
11) C0034699 - BB Rats	81) C0034707 - Inbred WF Rat
12) C0034699 - BB Rats, Inbred	82) C0034707 - Inbred WF Rats
13) C0034699 - BB Wistar Rats	83) C0034709 - Inbred WKY Rat
14) C0034699 - Bio Breeding Inbred Rats	84) C0034709 - Inbred WKY Rats
15) C0034699 - Bio-Breeding Inbred Rat	85) C0086893 - Laboratory Rat
16) C0034699 - Bio-Breeding Inbred Rats	86) C0086893 - Laboratory Rats
17) C0034700 - BN Rat	87) C0600547 - LEC Rat, Inbred
18) C0034700 - BN Rat, Inbred	88) C0600547 - LEC Rats, Inbred
19) C0034700 - BN Rats	89) C0034704 - Lew Rat
20) C0034700 - BN Rats, Inbred	90) C0034704 - Lew Rat, Inbred
21) C0034694 - Brattleboro Rats	91) C0034704 - Lew Rats
22) C0034701 - BUF Rat	92) C0034704 - Lew Rats, Inbred
23) C0034701 - BUF Rat, Inbred	93) C0034704 - Lewis Rats, Inbred
24) C0034701 - BUF Rats	94) C0600547 - Long Evans Cinnamon Rats
25) C0034701 - BUF Rats, Inbred	95) C0324537 - Long Evans Rats
26) C0034701 - Buffalo Rats, Inbred	96) C0600547 - Long-Evans Cinnamon Rats
27) C0034703 - CDF Rat, Inbred	97) C0324537 - Long-Evans Rats
28) C0034703 - CDF Rats, Inbred	98) C0034711 - Mutant Strains Rat
29) C0600547 - Cinnamon Rats, Long-Evans	99) C0034711 - Mutant Strains Rats
30) C0600534 - Dahl Hypertensive Rats	100) C0034693 - Norway Rats
31) C0600533 - Dahl Rats	101) C0034713 - Nude Rat
32) C0600533 - Dahl Rats, Inbred	102) C0034713 - Nude Rats
33) C0600535 - Dahl Salt Resistant Rats	103) C0600548 - OLETF Rat, Inbred
34) C0600534 - Dahl Salt Sensitive Rats	104) C0600548 - OLETF Rats, Inbred
35) C0600535 - Dahl Salt-Resistant Rats	105) C0600548 - Otsuka Long Evans Tokushima Fatty Rats
36) C0600535 Dahl Salt-Resistant Rats	106) C0600548 - Otsuka Long Evans Tokushima Rats
37) C0324537 - Evans Rats, Long	107) C0600548 - Otsuka-Long-Evans-Tokushima Fatty Rats
38) C0034703 - F344 Rat	108) C0600548 - Otsuka-Long-Evans-Tokushima Rats
39) C0034703 - F344 Rat, Inbred	109) C0085262 - PC12 Cells
40) C0034703 - F344 Rats	110) C0034693 - Rat
41) C0034703 - F344 Rats, Inbred 42) C0600548 - Fatty Rats, Otsuka-Long-Evans-Tokushima	111) C0034706 - Rat Inbred Strain
·	112) C0034706 - Rat Inbred Strains
43) C0034703 - Fischer Rats	113) C0034706 - Rat Strain, Inbred
44) C0034696 - Gunn Rats	114) C0034706 - Rat Strains, Inbred
45) C0242589 - Holtzman Rats	115) C0034698 - Rat, ACI
46) C0600534 - Hypertensive Rats, Dahl	116) C0034713 - Rat, Athymic
47) C0034698 - Inbred ACI Rat	117) C0524710 - Rat, August
48) C0034698 - Inbred ACI Rats	118) C0034699 - Rat, BB
49) C0034699 - Inbred BB Rat	119) C0034699 - Rat, Bio-Breeding Inbred
50) C0034699 - Inbred BB Rats	120) C0034700 - Rat, BN
51) C0034700 - Inbred BN Rat	121) C0034701 - Rat, BUF
52) C0034700 - Inbred BN Rats	122) C0034703 - Rat, F344
53) C0034701 - Inbred BUF Rat	123) C0034698 - Rat, Inbred ACI
54) C0034701 - Inbred BUF Rats	124) C0034699 - Rat, Inbred BB
55) C0034701 - Inbred Buffalo Rats	125) C0034700 - Rat, Inbred BN
56) C0034703 - Inbred CDF Rat	126) C0034701 - Rat, Inbred BUF
57) C0034703 - Inbred CDF Rats	127) C0034703 - Rat, Inbred CDF
58) C0600533 - Inbred Dahl Rats	128) C0034703 - Rat, Inbred F344
59) C0034703 - Inbred F344 Rat	129) C0600547 - Rat, Inbred LEC
60) C0034703 - Inbred F344 Rats	130) C0034704 - Rat, Inbred Lew
61) C0600547 - Inbred LEC Rat	131) C0600548 - Rat, Inbred OLETF
62) C0600547 - Inbred LEC Rats	132) C0034705 - Rat, Inbred SHR
63) C0034704 - Inbred Lew Rat	133) C0034706 - Rat, Inbred Strain
64) C0034704 - Inbred Lew Rats	134) C0034706 - Rat, Inbred Strains
65) C0034704 - Inbred Lewis Rats	135) C0034707 - Rat, Inbred WF
66) C0600548 - Inbred OLETF Rat	136) C0034709 - Rat, Inbred WKY
67) C0600548 - Inbred OLETF Rats	137) C0086893 - Rat, Laboratory
68) C0034706 - Inbred Rat Strain	138) C0034704 - Rat, Lew
69) C0034706 - Inbred Rat Strains	139) C0034711 - Rat, Mutant Strains
70) C0034699 - Inbred Rat, Bio-Breeding	140) C0034713 - Rat, Nude
71) C0034699 - Inbred Rats, Bio-Breeding	141) C0034705 - Rat, SHR
72) C0034705 - Inbred SHR Rat	142) C0034705 - Rat, Spontaneously Hypertensive
73) C0034705 - Inbred SHR Rats	143) C0034707 - Rat, WF
74) C0034706 - Inbred Strain of Rat	144) C0034709 - Rat, WKY
75) C0034706 - Inbred Strain of Rats	145) C0034706 - Rats Inbred Strain
76) C0034706 - Inbred Strain Rat	146) C0034706 - Rats Inbred Strains
77) C0034706 - Inbred Strain Rats	147) C0034698 - Rats, ACI

Rats continued:	193) C0034711 - Rats, Mutant Strains
148) C0034713 - Rats, Athymic	194) C0034693 - Rats, Norway
149) C0524710 - Rats, August	195) C0034713 - Rats, Nude
150) C0034699 - Rats, BB	196) C0600548 - Rats, Otsuka-Long-Evans-Tokushima
151) C0034699 - Rats, BB Wistar	197) C0600548 - Rats, Otsuka-Long-Evans-Tokushima Fatty
152) C0034699 - Rats, Bio-Breeding Inbred	198) C0034705 - Rats, SHR
153) C0034700 - Rats, BN	199) C0034705 - Rats, Spontaneously Hypertensive
154) C0034694 - Rats, Brattleboro	200) C0034715 - Rats, Sprague Dawley
155) C0034701 - Rats, BUF	201) C0034715 - Rats, Sprague-Dawley
156) C0600533 - Rats, Dahl	202) C0034707 - Rats, WF
157) C0600534 - Rats, Dahl Hypertensive	203) C0034716 - Rats, Wistar
158) C0600535 - Rats, Dahl Salt-Resistant	204) C0034707 - Rats, Wistar Furth
159) C0600534 - Rats, Dahl Salt-Sensitive	205) C0034709 - Rats, Wistar Kyoto
160) C0034703 - Rats, F344	206) C0034709 - Rats, WKY
161) C0034703 - Rats, Fischer	207) C0034719 - Rats, Zucker
162) C0034696 - Rats, Gunn	208) C0034721 - Rattus
163) C0242589 - Rats, Holtzman	209) C0034693 - Rattus norvegicus
164) C0034698 - Rats, Inbred A x C 9935 Irish	210) C0600535 - Salt-Resistant Rats, Dahl
165) C0034698 - Rats, Inbred ACI	211) C0600534 - Salt-Sensitive Rats, Dahl
166) C0034699 - Rats, Inbred BB	212) C0034705 - SHR Rat
167) C0034700 - Rats, Inbred BN	213) C0034705 - SHR Rat, Inbred
168) C0034700 - Rats, Inbred Brown Norway	214) C0034705 - SHR Rats
169) C0034701 - Rats, Inbred BUF	215) C0034705 - SHR Rats, Inbred
170) C0034701 - Rats, Inbred Buffalo	216) C0034705 - Spontaneously Hypertensive Rat
171) C0034703 - Rats, Inbred CDF	217) C0034705 - Spontaneously Hypertensive Rats
172) C0600533 - Rats, Inbred Dahl	218) C0034715 - Sprague Dawley Rats
173) C0034703 - Rats, Inbred F344	219) C0034715 - Sprague-Dawley Rats
174) C0034703 - Rats, Inbred Fischer 344	220) C0034706 - Strain Rat, Inbred
175) C0034703 - Rats, Inbred Fisher 344	221) C0034706 - Strain Rats, Inbred
176) C0600547 - Rats, Inbred LEC	222) C0034706 - Strain, Inbred Rat
177) C0034704 - Rats, Inbred Lew	223) C0034711 - Strains Rat, Mutant
178) C0034704 - Rats, Inbred Lewis	224) C0034711 - Strains Rats, Mutant
179) C0600547 - Rats, Inbred Long Evans Cinnamon	225) C0034706 - Strains, Inbred Rat
180) C0600547 - Rats, Inbred Long-Evans Cinnamon	226) C0034707 - WF Rat
181) C0600548 - Rats, Inbred OLETF	227) C0034707 - WF Rat, Inbred
182) C0034705 - Rats, Inbred SHR	228) C0034707 - WF Rats
183) C0034706 - Rats, Inbred Strain	229) C0034707 - WF Rats, Inbred
184) C0034706 - Rats, Inbred Strains	230) C0034707 - Wistar Furth Rats
185) C0034707 - Rats, Inbred WF	231) C0034709 - Wistar Kyoto Rats
186) C0034707 - Rats, Inbred Wistar Furth	232) C0034716 - Wistar Rats
187) C0034709 - Rats, Inbred WKY	233) C0034699 - Wistar Rats, BB
188) C0086893 - Rats, Laboratory	234) C0034709 - WKY Rat
189) C0034704 - Rats, Lew	235) C0034709 - WKY Rat, Inbred
190) C0324537 - Rats, Long Evans	236) C0034709 - WKY Rats
191) C0324537 - Rats, Long-Evans	237) C0034709 - WKY Rats, Inbred
192) C0600547 - Rats, Long-Evans Cinnamon	238) C0034719 - Zucker Rats

Rats Trees (1):

1) B01.150.900.649.865.635.505.700 - Rats

- Sheep (6):
 1) C0027345 Nairobi Sheep Disease
 2) C0032306 Pneumonia, Progressive Interstitial, of Sheep
 3) C0034049 Pulmonary Adenomatosis, Ovine
 4) C0036946 Sheep Diseases
 5) C0024003 Swayback
 6) C0080323 Visna

Sheep Trees (1):1) C22.836 - Sheep Diseases

Swine (14):

- 1) C0001752 African Swine Fever
- 2) C0019841 Classical Swine Fever
- 3) C0013605 Edema Disease of Swine
- 4) C0014073 Encephalomyelitis, Enzootic Porcine
- 5) C0014521 Epidermitis, Exudative, of Swine
- 6) C0017162 Gastroenteritis, Transmissible, of Swine
- 7) C0242598 LLC-PK1 Cells
- 8) C0376538 Porcine Reproductive and Respiratory Syndrome
- 9) C0039006 Swine Diseases
- 10) C0039007 Swine Erysipelas
- 11) C0019841 Swine Fever
- 12) C0039010 Swine Vesicular Disease
- 13) C0039011 Swine, Miniature
- 14) C0042584 Vesicular Exanthema of Swine

Swine Trees (2):

- 1) A11.251.210.520 LLC-PK1 Cells
- 2) C22.905 Swine Diseases

United States (54):

- 1) C0002455 American Cancer Society
- 2) C0002456 American Dental Association
- 3) C0002458 American Heart Association
- 4) C0002459 American Hospital Association
- 5) C0002461 American Medical Association
- 6) C0002463 American Nurses' Association
- 7) C0078936 American Speech-Language-Hearing Association
- 8) C0007670 Centers for Disease Control and Prevention (U.S.) 9) C0009434 - Commission on Professional and Hospital Activities
- 10) C0282438 Consensus Development Conference, NIH [Publication Type]
 - 11) C0376631 Employee Retirement Income Security Act
 - 12) C0018727 Health Planning
 - 13) C0018764 Health system plans
 - 14) C0018763 Health Systems Agencies
 - 15) C0020007 Hospitals, Federal
 - 16) C0020012 Hospitals, Military 17) C0021621 - Institute of Medicine (U.S.)
- 18) C0022405 Joint Commission on Accreditation of Healthcare

Organizations

- 19) C0025071 Medicaid
- 20) C0025140 MEDLARS
- 21) C0025141 MEDLINE
- 22) C0027446 National Academy of Sciences (U.S.)
- 23) C0027447 National Center for Health Care Technology 24) C0027450 - National Center for Health Statistics (U.S.)
- 25) C0027454 National Health Insurance, United States
- 26) C0027456 National Health Planning Information Center
- 27) C0027463 National Institute for Occupational Safety and Health
- 28) C0027466 National Institute of Mental Health (U.S.)

- 29) C0027468 National Institutes of Health (U.S.)
- 30) C0027470 National Library of Medicine (U.S.)
- 31) C0085291 National Practitioner Data Bank
- 32) C0600418 Patient Self-Determination Act
- 33) C0031826 Physician Payment Review Commission
- 34) C0033518 Prospective Payment Assessment Commission
- 35) C0038192 State Health Planning and Development Agencies
- 36) C0038194 State Health Plans
- 37) C0080268 United States Agency for Healthcare Research and Quality
- 38) C0041718 United States Centers for Medicare and Medicaid Services
- 39) C0085410 United States Department of Agriculture
- 40) C0041735 United States Department of Veterans Affairs
- 41) C0041711 United States Dept. of Health and Human Services
- 42) C0041712 United States Environmental Protection Agency 43) C0041713 - United States Federal Trade Commission
- 44) C0041714 United States Food and Drug Administration
- 45) C0041720 United States Health Resources and Services Administration

- 46) C0085141 United States Indian Health Service
- 47) C0242776 United States National Aeronautics and Space

Administration

48) C0041731 - United States Occupational Safety and Health

Administration

- 49) C0041732 United States Office of Economic Opportunity
- 50) C0206601 United States Office of Research Integrity
- 51) C0041733 United States Office of Technology Assessment
- 52) C0041734 United States Public Health Service
- 53) C0282680 United States Social Security Administration
- 54) C0041704 United States Substance Abuse and Mental Health Services Administration

United States Trees (4):

- 1) N03.219.521.576.343.840 Medicare
- 2) N03.540.452.508 State Health Planning and Development Agencies
- 3) N03.540.427.300 United States Dept. of Health and Human Services
- 4) N03.540.427.550 United States Office of Technology Assessment

Cercopithecus aethiops (4):

- 1) C0026438 Cercopithecus aethiops
- 2) C1438037 MBD-205 protein, Cercopithecus aethiops
- 3) C0638274 osteoclast functional antigen, Cercopithecus aethiops
- 4) C0042542 Vero Cells

Appendix M - MeSH SubHeading Treecode Triggers List

```
economics (1):
   1) N03.219 - Economics
   1) K01.316 - Ethics
genetics (5):
   1) G13 - Genetic Phenomena
   2) G05 - Genetic Processes
   3) N02.421.308 - Genetic Services
   4) G14 - Genetic Structures
   5) G01.273.343 - Genetics
immunology (3):
   1) D12.776.124.486.485.114:D12.776.124.790.651.114:D12.776.377.715.548.114 - Antibodies
   2) D23.050 - Antigens
   3) G04.610 - Immunity
pharmacokinetics (1):
   1) G12.091.690.140 - Biotransformation
radiography (1):
   1) E01.370.350.700 - Radiography
radionuclide imaging (1):
   1) E01.370.384.730 - Radionuclide Imaging
radiotherapy (1):
   1) E02.815 - Radiotherapy
rehabilitation (1):
   1) E02.831 - Rehabilitation
surgery (1):
   1) E04 - Surgical Procedures, Operative
transmission (1):
   1) G03.850.310 - Disease Transmission
transplantation (9):
   1) E04.936.225 - Cell Transplantation
2) E04.936.337 - Cold Ischemia
   3) E04.936.450 - Organ Transplantation
   4) E04.936.580 - Tissue Transplantation
   5) E04.936.664 - Transplantation, Autologous
   6) E04.936.764 - Transplantation, Heterologous
   7) E04.936.800 - Transplantation, Heterotopic
   8) E04.936.864 - Transplantation, Homologous
   9) E04.936.932 - Warm Ischemia
ultrasonography (1):
   1) E01.370.350.850 - Ultrasonography
virology (1):
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1) G04.185.515.880 - Viral Physiology

Appendix N – Special Publication Type List

Publication Type	Recommendation Limit
Review	14
News	14
Editorial	9
Letter	8