OBESIT

Vorld

MY QAEDA CLASSMATE • GERMANY'S CLASS PROBLEM

ewswee

We're Eating More Junk And Getting Less Exercise. Obesity Is

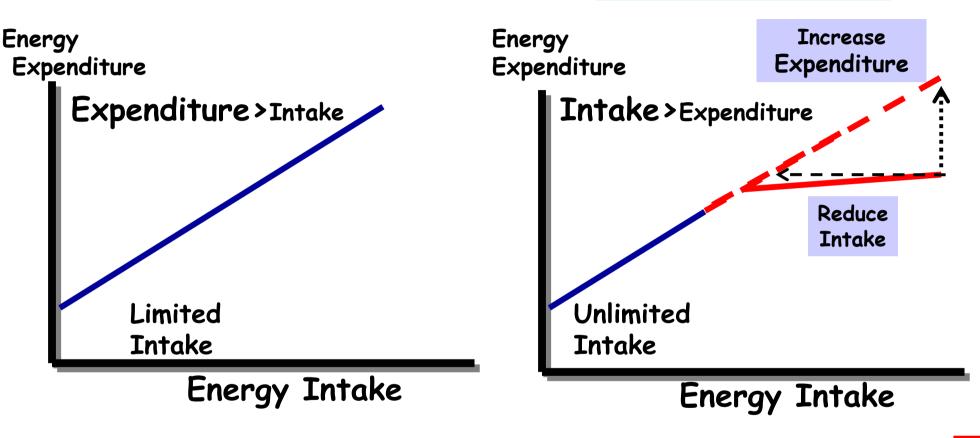
Obesity Is The Globe's Newest Epidemic.



www.time.com AOL Keyword: TIME



Modern Life



Low Energy Stores (body fat)



Increase in Energy Stores Energy balance established at unhealthy weight.







BMI and % body fat

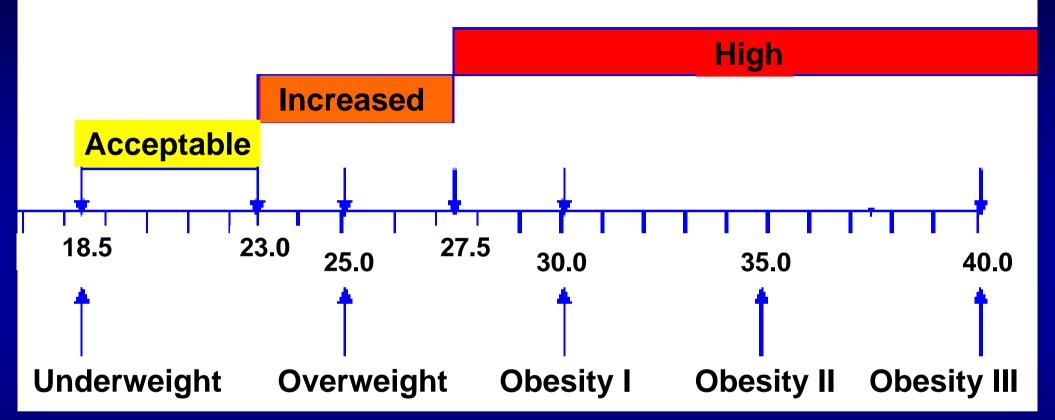




9.1 % 21.2 %

Source: THE LANCET • Vol 363 • January 10, 2004 • www.thelancet.com

WHO recommended BMI cut offs for Asians 2004



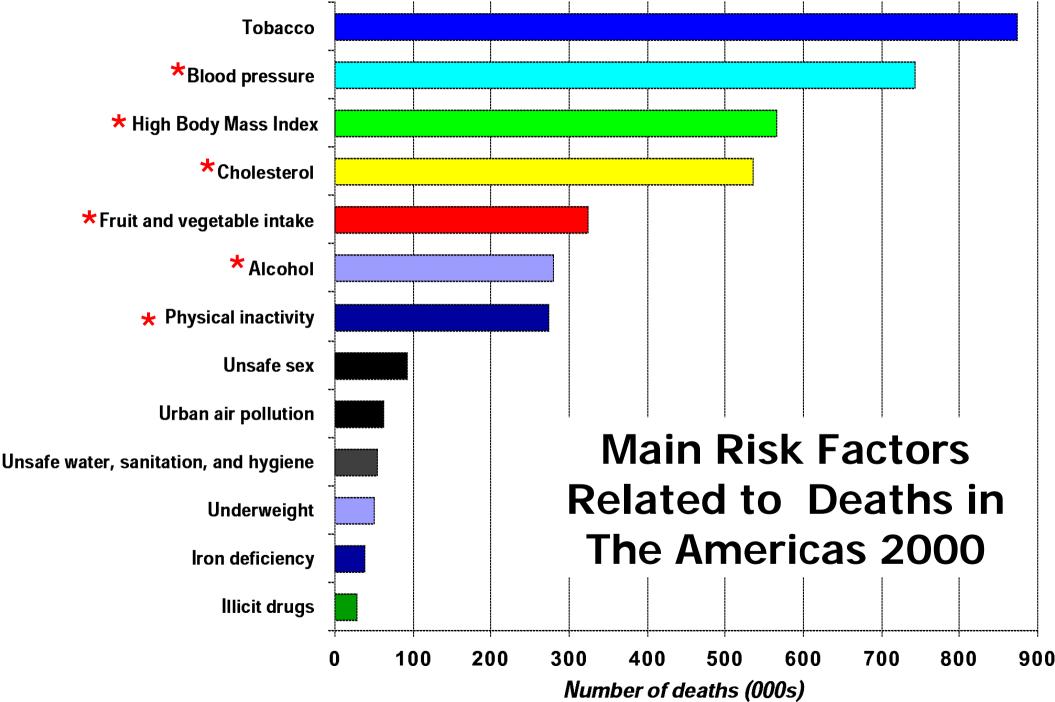
WHO international classification retained with new subcategories:
BMI <18.5 – underweight</p>
BMI 18.5-23 – increasing but acceptable risk
BMI 23–27.5 kg/m2 – increased
BMI >27.5 kg/m2 – high risk.
THE LANCET • Vol 363 • January 10, 2004 • www.thelancet.com

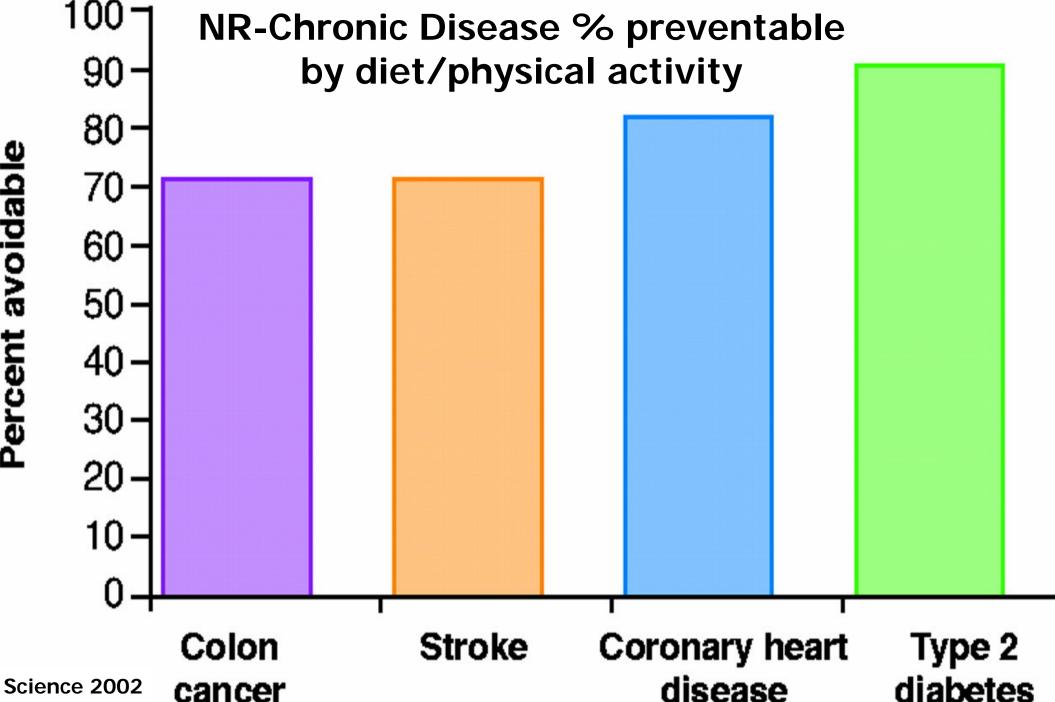
Relative risks associated with obesity

Greatly increased (>3)	Moderately increased (2-3)	Slightly increased (1-2)
NIDDM	CHD	Cancer breast cancer (in post menopausal women), endometrial, colon
Gallbladder disease	Hypertension	Reproductive hormone abnormalities
Dislipidemias	Osteoarthritis	Polycystic ovary syndrome
Insulin Resistance	Hyperuricemia and gout	Impaired fertility
Breathlessness		Low back pain Anaesthesia complications
Sleep apnoea		
	WHO TRS 894 Obesity: Preventing and Managing the Global Epidemic	Fetal defects in maternal obesity

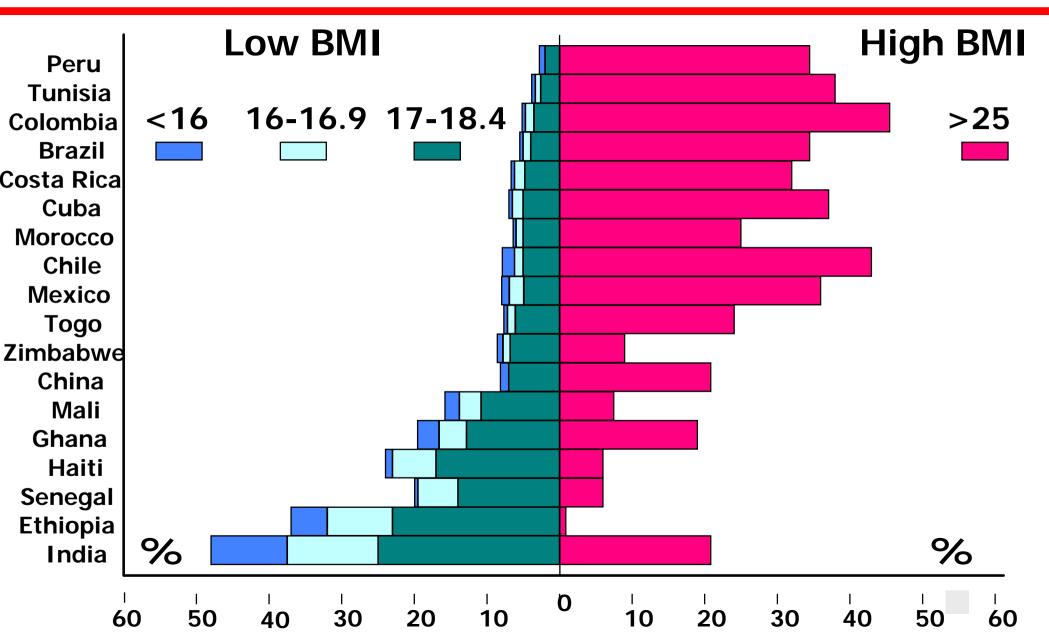
Definitions used

- Blood pressure (SBP >= 115 mmHg)
- Cholesterol (3.8 mmol/l; 147 mg/dl)
- High body Mass Index (>= 21 kg/ht²)
- Low fruit and vegetable intake (600 gms per day)
- Physical Inactivity (<= 2.5 hours per week; 400 kJ/week)
- Tobacco Use (none)
- Alcohol Use (none)

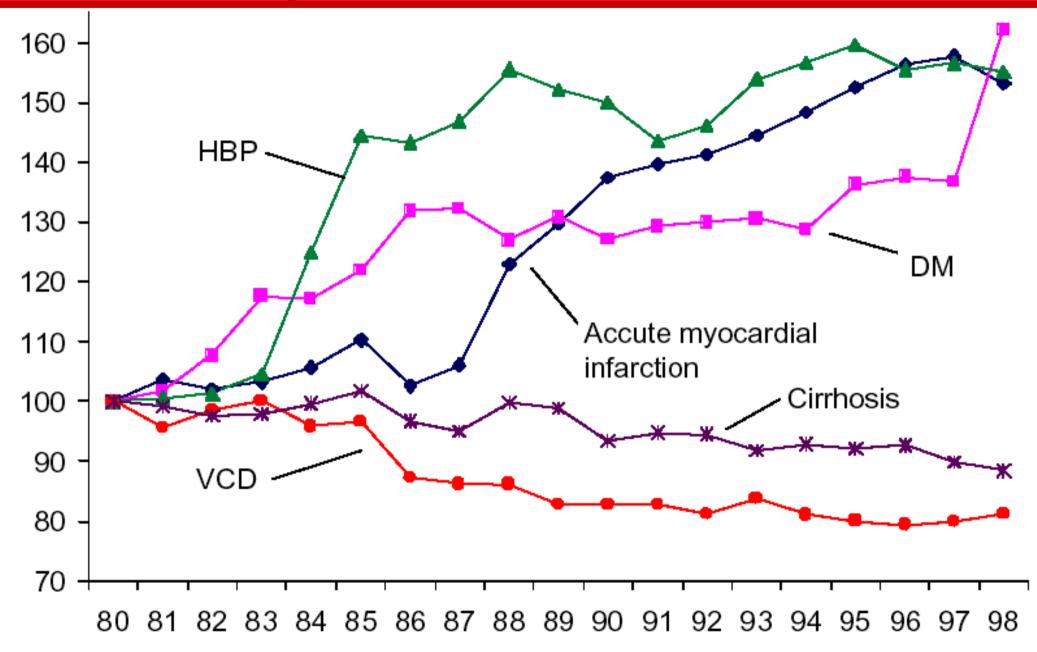




Body Mass Index of Adult Population



NCD Adjusted Deaths in Mexico (45-64 years of age)



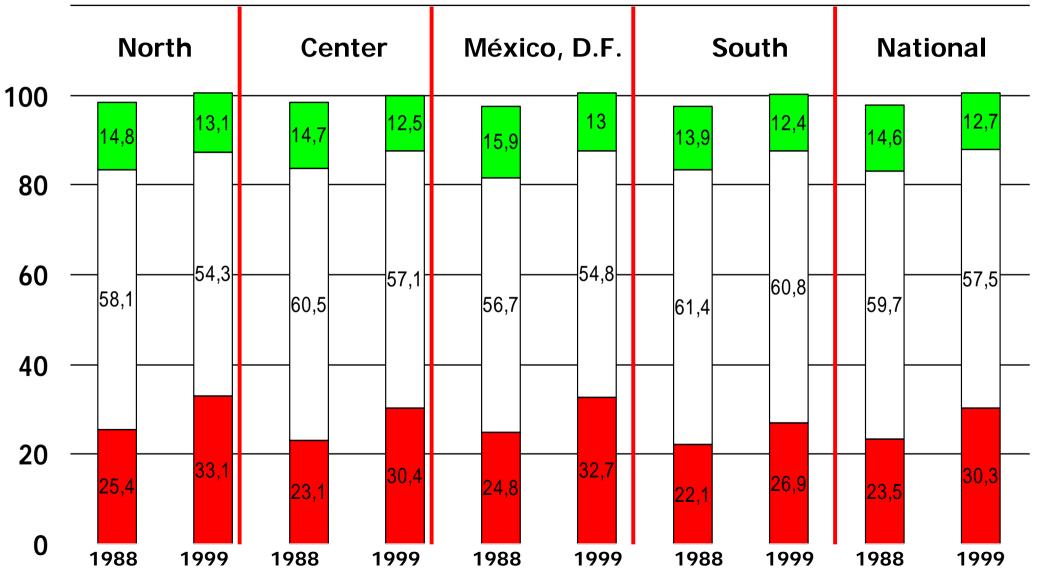


"EUREKA !... I'VE DISCOVERED THE GENE THAT MAKES US THINK THAT EVERYTHING'S DETERMINED BY GENES !"

Changes in Macronutrient Intake in Mexico 88/99

Fat CHO **Protein**

% Calories



Basic Causes

Community empowerment demand for: safe & healthy foods, active life

Public and private sector response to people's health demands

Government response in protection of public interest

International and National framework policies: health, education, agriculture, economic, urbanization, recreation, transport, trade

Legislative framework: to promote, support and protect right to safe and nutritious foods.

Underlying Factors

Access to safe and healthy foods (quantity and quality)

Balancing Energy Intake and expenditure

Factors affecting food and PA supply chain

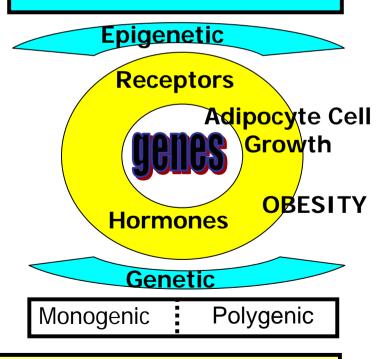
Policies affecting marketing, advertisement, subsidies

Urban space and facilities for active life (household school & workplace)

Psycho-social determinants of food intake and PA

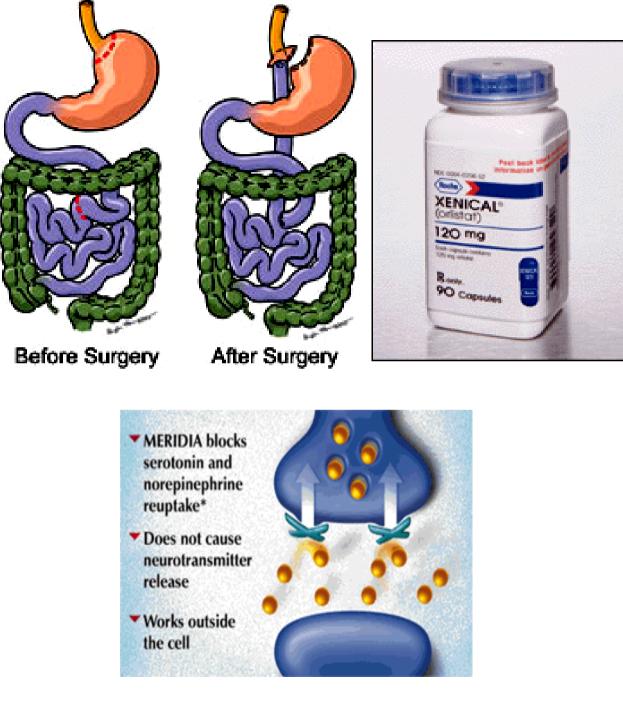
Nutrition Related Susceptibility (life-course exposure)

Energy Balance Energy dense diets *(fat & sugar)* Physical Activity Appetite & food intake Control Pre & postnatal growth Macronutrient quality Micronutrient balance Hormonal response to diet



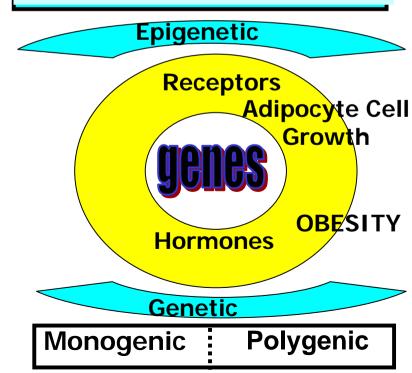
present efforts

potential for future effectiveness



Nutrition Related Susceptibility (life-course exposure)

Energy Balance Energy dense diets Physical Activity Appetite & food intake Control Pre & postnatal growth Macronutrient quality Micronutrient balance Hormonal response to diet





Joint WHO/FAO expert consultation on diet, nutrition and the prevention of chronic diseases



Geneva, Switzerland 28 January – 1 February 2002

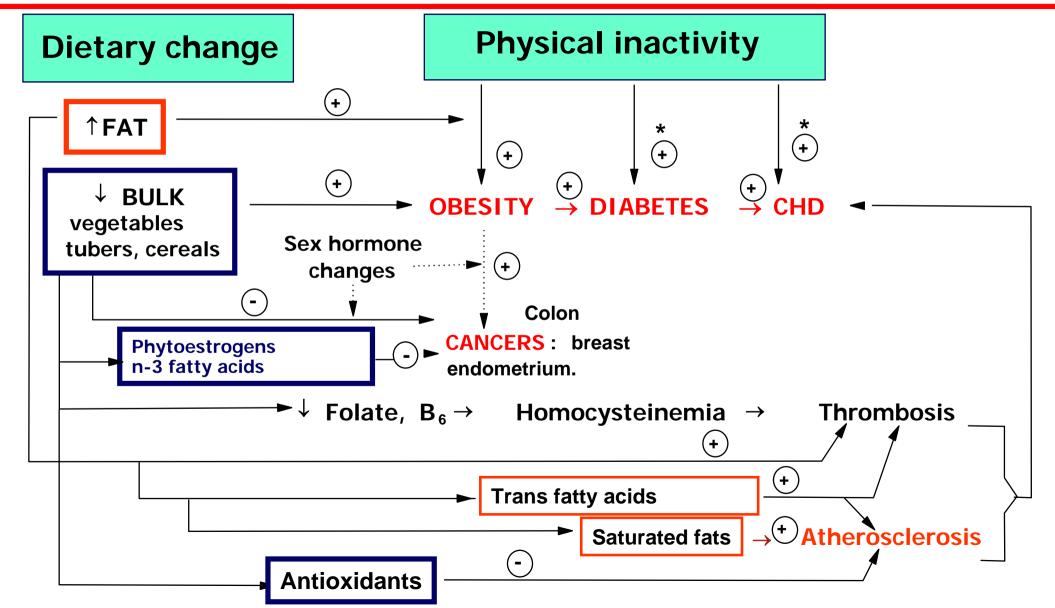
Diet, nutrition and the prevention of chronic diseases

Report of the Joint WHO/FAO expert consultation



www.who.int/hpr/nutrition/ExpertConsultationGE.htm

The interaction of physical inactivity and dietary change on prevalence of obesity and other diet related NCDs



Principal nutrient/food changes

Reduce

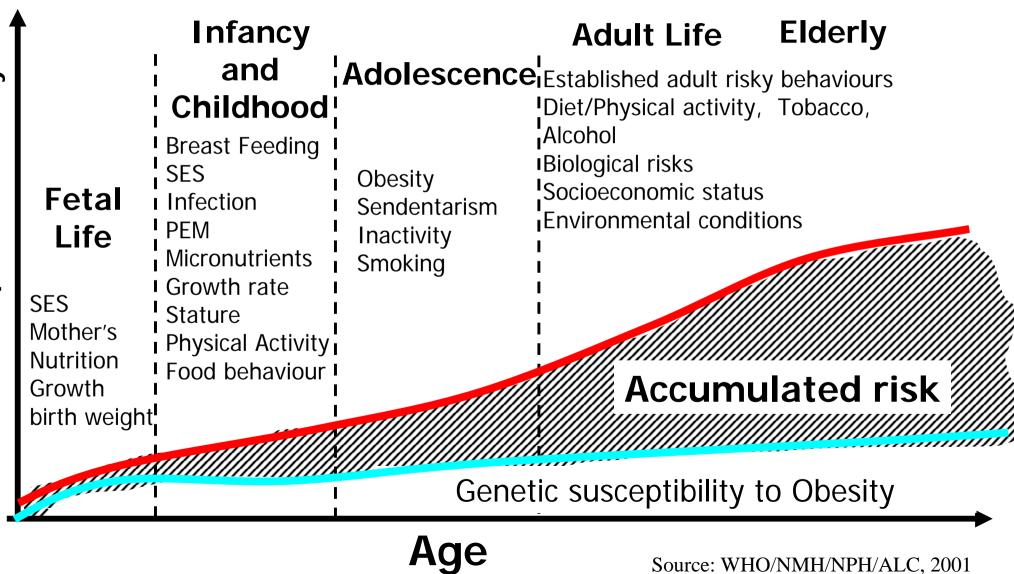
- Total fat
- Saturated Fats (C14,C16)
- Trans fatty acids
- Free sugars
- Refined starches
- Sodium/salt
- Preserved meats

Increase

- Vegetables,
- Fruits, legumes
- Fibre/NSP
- ω 3 fatty ac (LNA, EPA, DHA)
- Iron/iodine
- Zinc/folate?
- PHYSICAL ACTIVITY

Obesity prevention : a Life Course Approach

Development of Obesity



IOTF 2004 Obesity in children and young people: a crisis in public health

- 10% of world's children affected
- Rates rising in developing countries
- Need for urgent action to develop effective prevention throughout the world

Report to the World Health Organization

AN OPHICIAL JOURNAL OF THE INTERNATIONAL ASSOCIATION FOR THE STUDY OF CRESTY FORTHO BY ARNE ASTRUP COPENHADEN, VOLUME 5, SUPPLEMENT 1, MAY 2004

iaso

obesityreviews

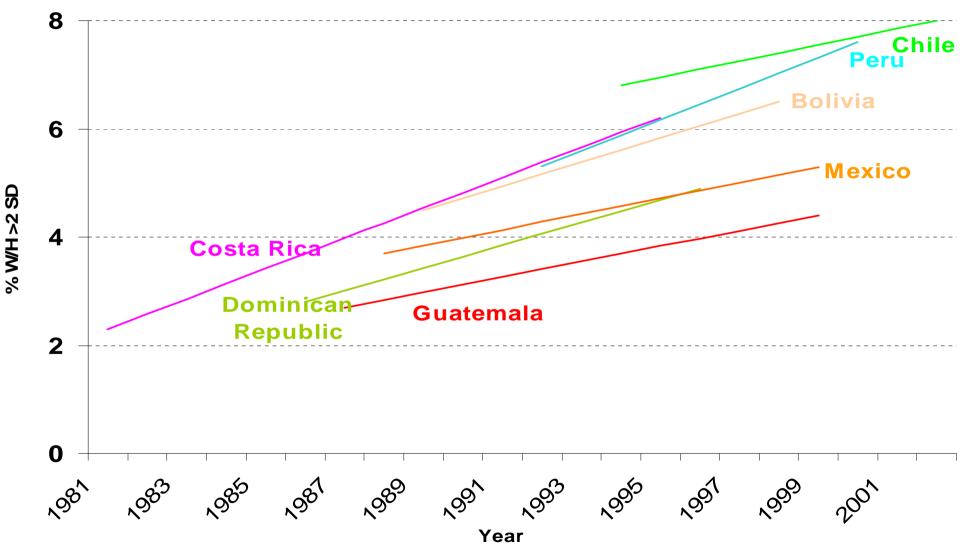
CHESTY IN CHILDREN AND YOUNS FEORLE A CHILDS IN PUBLIC HEALTH

aport to the World Health Organization



International Obeaity Taskfords

Prevalence and trends of overweight in preschool children from LA region

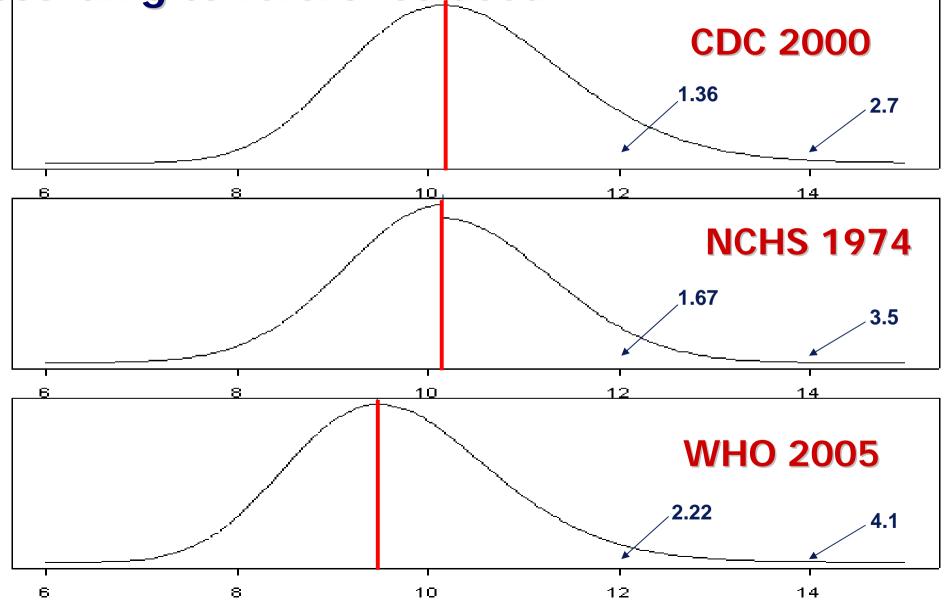


Adapted from: de Onis M and Blössner M. Am J Clin Nutr 2000;72:1032-9.

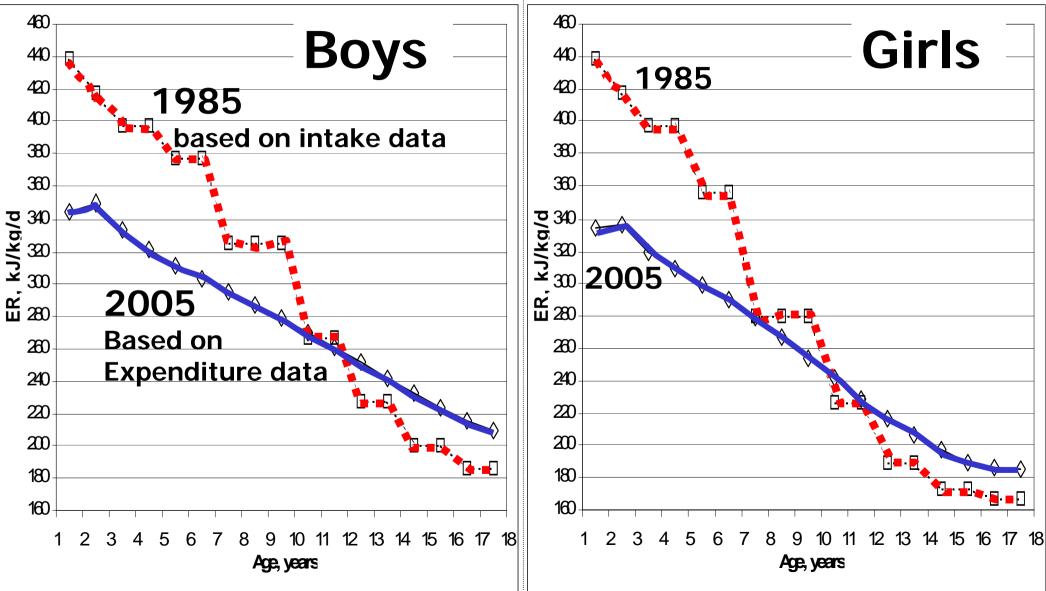
WHO Multicentre Growth Reference Study (MGRS)



Weight for age of a 1 yr old boy weighing 12 kg according to reference used



Energy Recommendations for Children FAO/WHO



Individual responsibility

Change in the Environment

Uauy and Monteiro 2004

Underlying Factors

- Access to safe and healthy foods (quantity and quality)
- Balancing Energy Intake and expenditure
- Factors affecting food and PA supply chain
- Urban space and facilities for active life (household school & workplace)
- Policies affecting regulation marketing, subsidies
- Psycho-social determinants of food intake and PA



TO BE ACTIVE

- Walk
- 3 km per day
- 1 km in
- 100 m in

Agita Mundo OMS

- 15 km/wk
 - 30 min
 - 10 min
 - 1 min

We Eat: what we are "forced" to eat



Mixed metaphors







Basic Causes

Supply and demand side of food and PA chain.

Community empowerment demand for: safe & healthy foods, active life

Public and private sector response to people's health demands

Government response in protection of public interest

International and National policies: health, education, agriculture, economic, urbanization, recreation, transport, trade



Senators seek a trimmer America July 31, 2002 Posted: 10:31 AM EDT (1431 GMT)

•Obesity is our nation's fastest rising public health problem,"

•"As a nation, we can no longer afford to ignore the escalating costs associated with obesity & unhealthy lifestyles, such as physical inactivity and poor dietary habits."

THE LANCET Who pays in the obesity war

 Mirroring tobacco industry tactics, public-health needs are being stifled by business interests.

 WHO Global Strategy on Diet, Physical Activity and Health calls for reductions in fat, salt, and sugar contents of foods, and recommends exercise to prevent obesity

• High-fat, energy-dense foods are often the cheapest options for the consumer.

•As long as a meal of grilled chicken, broccoli, and fresh fruit costs more, and is less convenient, than a burger and fries or a peanut butter sandwich, then the battle against obesity will be lost.

