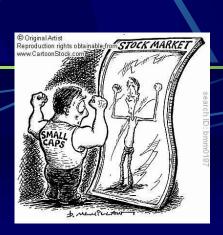
Diversity and Body Image: Mindset Shift







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Agenda

- Identify the different forms of body image issues
 - Eating disorders
 - Disordered eating
 - Muscle Dysmorphia
 - Obesity

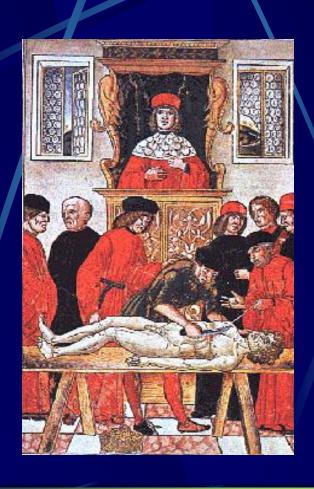
Definitions

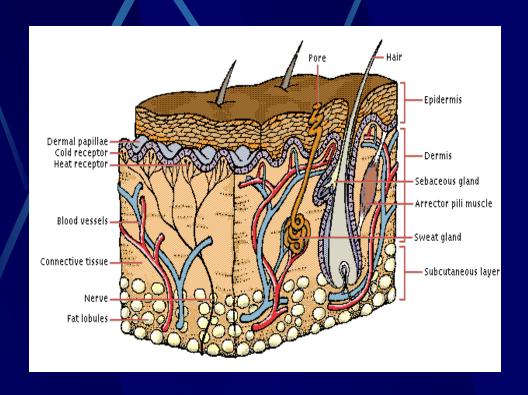
- Body Image
 - How we see ourselves when we look in the mirror or picture ourselves in our minds
- Obesity
 - Abnormally high proportion of body fat based on BMI or body fat percentages
- Overweight
 - Excess body weight compared to set standards
- Anorexia
 - Self-starvation

Definitions

- Bulimia
 - Cycles of binge eating and purging
- Binge eating disorder
 - Eating large amounts of food in short period of time
- Disordered eating
 - Troublesome eating behaviors such as restrictive dieting, bingeing, or purging
- Muscle Dysmorphia
 - Preoccupation with size; warped perception of self

Medical Research





Scientific Medicine: 1900-2012

- 1940: Wells published "Adipose Tissue: A neglected subject"
- 1946: Hydrostatic weight
- 1946: Fat cells metabolize
- 1947: Risk of peripheral Fat
- 1950: Obese mouse described
- 1953: Bypass surgery for obesity

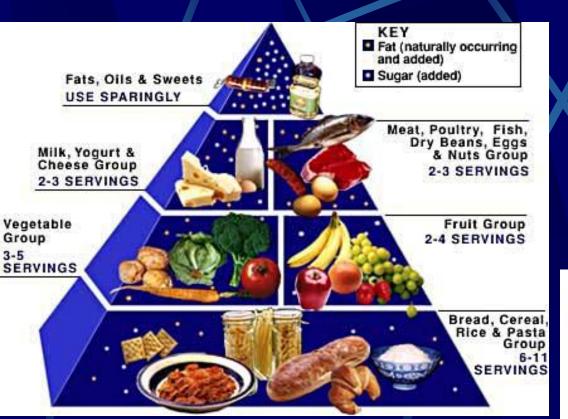
Scientific Medicine: 1900-2012

- 1963: Socio-economic status & obesity
- 1975: Fat cells cultured
- 1978: Adrenalectomy prevents obesity
- 1980-1989: Obesity levels grew dramatically; Eating disorders were labelled
- 1982: CT of Visceral Fat

Scientific Medicine: 1900-2012

- 1990's: Connection among specific diseases and obesity and eating disorders; treatment centers began to develop; DSM criteria was developed for eating disorders
- 1992: Food guide pyramid introduced
- 2000s: Metabolic Syndrome; Food guide pyramid revised four times; USDA Dietary Guidelines reports; billions \$\$\$ obesity research; hospital surgeries, fitness programs; new disorder identified: Muscle Dysmorphia
- 2004: One third of Americans are obese; 25 percent are diabetic or pre-diabetic; 1 in 3 Type II diabetes life risk
- 2011: Two thirds of Americans are overweight or obese;
 My plate replaces pyramid

Nutrition Changes





Summary of Medical History

- 1900 Infectious Diseases
- 1960 Chronic Diseases
- 1990 Inactivity/Sedentary
- 2000 Metabolic Syndrome; Surgeries

Obesity Facts

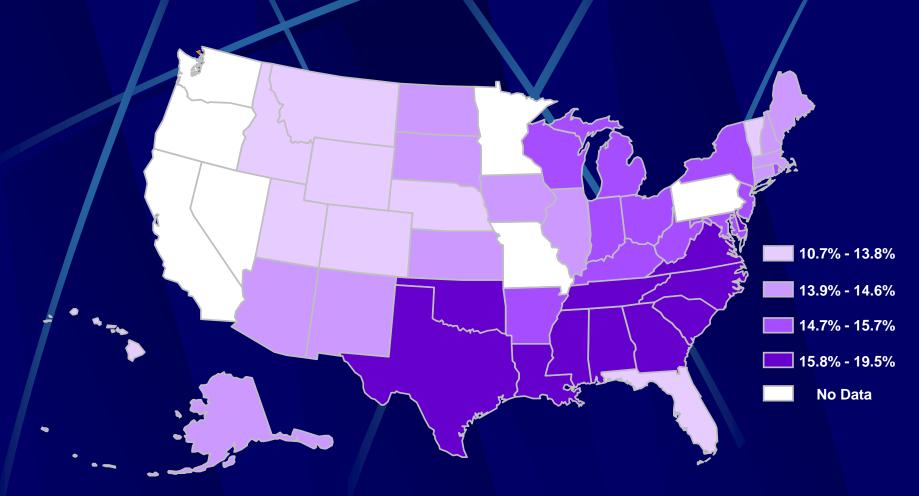
- No state has a prevalence of obesity less than 20%.
- Thirty-six states have a prevalence of 25% or more;
- 12 of these states (Alabama, Arkansas, Kentucky, Louisiana, Michigan, Mississippi, Missouri, Oklahoma, South Carolina, Tennessee, Texas, and West Virginia) had a prevalence of 30% or more.

Face the Facts

- 35.7% of all U.S. adults are obese
- 16.9% of all U.S. children are obese
 - 12.3% >97th percentile
- 66.8% of Texas residents are either overweight or obese (TDSHS, 2011)

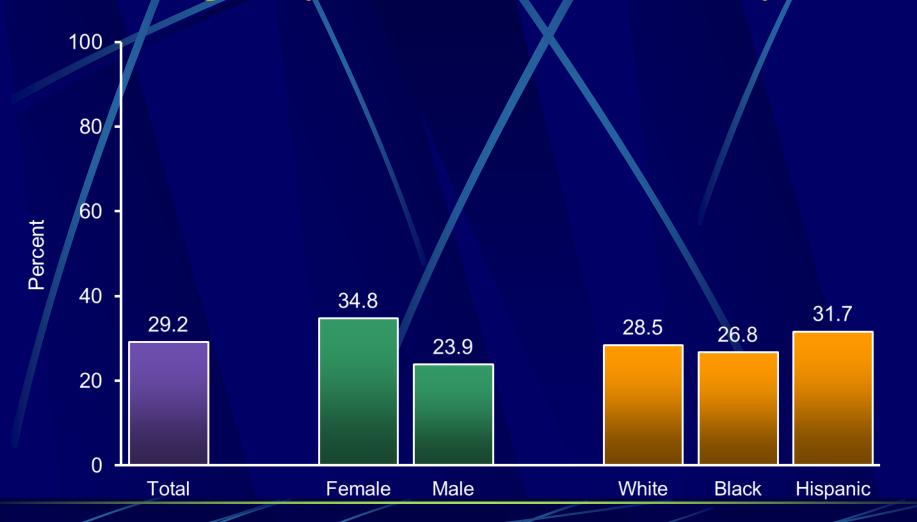


Percentage of High School Students Who Were Overweight,* 2011



^{*} Students who were = 85th percentile but < 95th percentile for body mass index, based on sex- and agespecific reference data from the 2000 CDC growth charts.

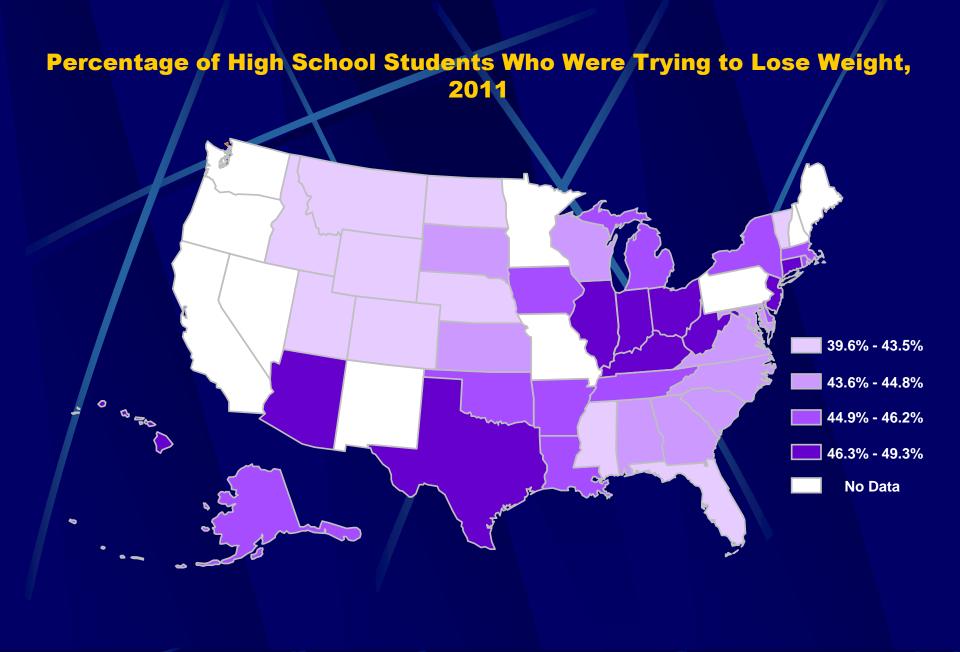
Percentage of High School Students Who Described Themselves as Slightly or Very Overweight, by Sex* and Race/Ethnicity, 2011



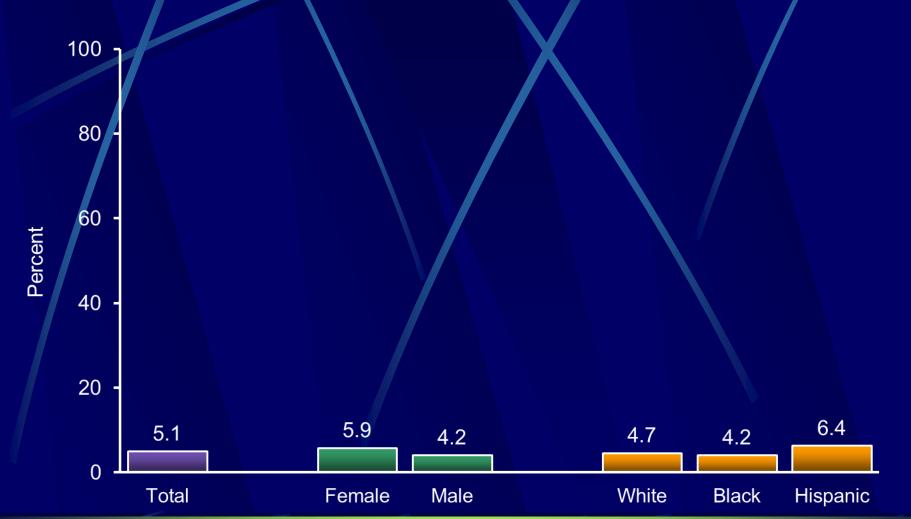






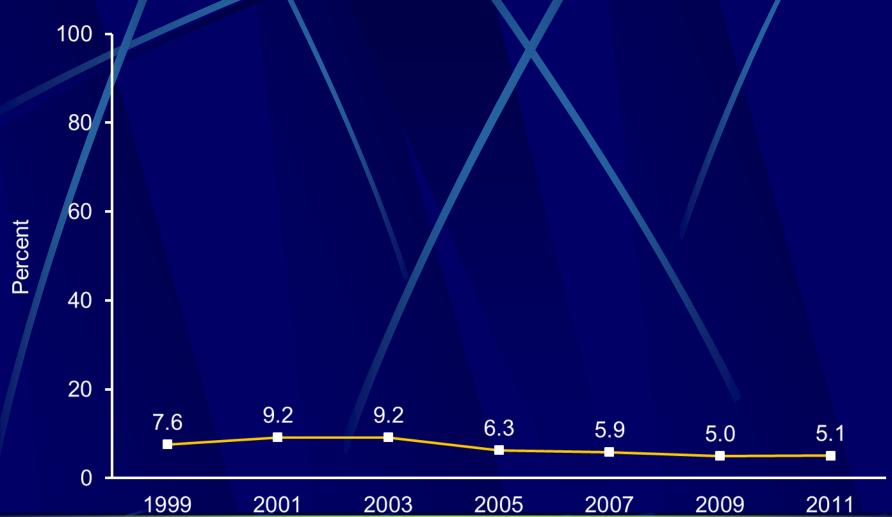


% HS Students Who Took Diet Pills, Powders, or Liquids to Lose Weight or to Keep from Gaining Weight,* by Sex† and Race/Ethnicity,§ 2011



^{*} Without a doctor's advice during the 30 days before the survey.

†F>M §H>WB Percentage of High School Students Who Took Diet Pills, Powders, or Liquids to Lose Weight or to Keep from Gaining Weight,* 1999 – 2011†



^{*} Without a doctor's advice during the 30 days before the survey.

† Increased 1999–2001, decreased 2001–2011, p < 0.05.

Healthcare Costs 1950 to 2018

- 1950s: Healthcare costs <\$20 billion</p>
- 1960s: Healthcare costs = \$27.1 billion
- 1970s: Healthcare costs = \$74.4 billion
- 1980s: Healthcare costs = \$250.1 billion Federal budget deficit >\$100 billion for 1st time
- 1990s: Healthcare costs = \$675 billion
- 1994:Healthcare costs = \$1,000 billion or 14% of gross domestic product (GDP)
- 2018: \$344 billion in medical-related expenses, or 21% of our nation's health-care spending

The Body Image Continuum

Ectomorphy

Mesomorphy

Endomorphy

Anorexia

Nervosa/

Bulimia

Muscle

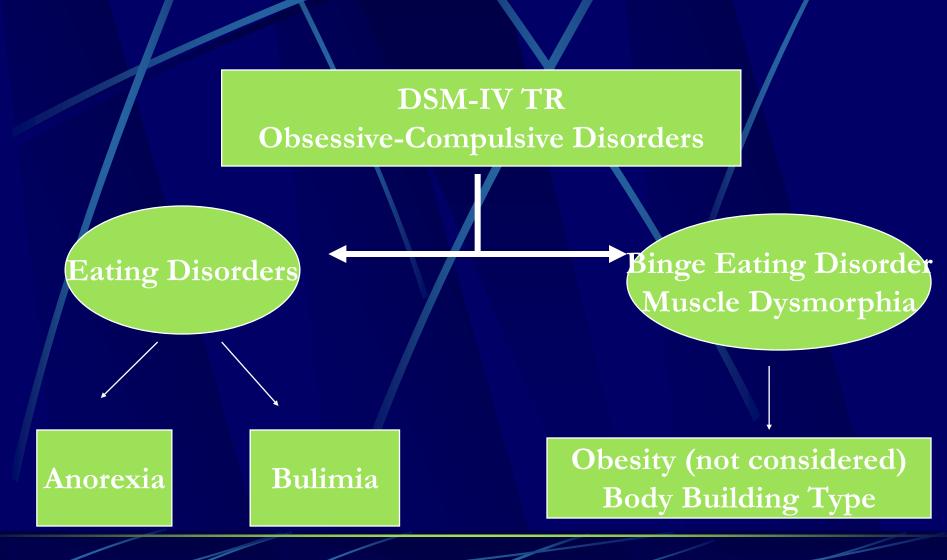
Dysmorphia

Obesity/Binge

Eating

Disorder

OCD/Addiction Model



Five Themes of Body Image Issues

- Physiological approach to a controlled system of food intake
- Cellular basis
- Molecular biological approaches
- Behavioral or Psychological aspects
- Socio-cultural aspects

Eating Disorders, Muscle Dysmorphia & Obesity

- They share a range of weight related problems
- Body dissatisfaction & unhealthy dieting practices
- Binge eating
- Environment
- Depression, anxiety, mood disorders
- Self-esteem issues

Health Risks: Eating Disorders

- Stunted growth
- Delayed menstruation
- Damage to vital organs
- Nutritional deficiencies
- Cardiac arrest
- Emotional problems

Health Risks: Obesity

- High blood pressure
- Stroke
- Cardiovascular Disease
- Gallbladder Disease
- Diabetes
- Respiratory problems
- Arthritis
- Emotional problems

Health Risks: Muscle Dysmorphia

- Damaged muscles, joints, & tendons
- Self-hatred
- Depression & suicide
- Poor relationships
- Negatively affected social, work, or school life
- Inability to relax without worry
- Negative effects from steroid use

Different characteristics for different races

- Restraint
- Bingeing
- Purging
- Laxatives
- Perfectionism
- Acculturated stress

(Franko & Striegel-Moore, 2002; Rhea, 1999; Rhea et al., 2013)

Risk or protective?

- Risk:
 - BID (when impervious)
 - Traditional values compromised
 - Cultural norms discounted
 - Overweight?
 - Inability to express negative emotion
 - Low self-esteem
 - Acculturation (Fiji)

Protective:

- High self-esteem
- Acculturation
- Less emphasis on food & weight concerns

