

Managing the Obese Client

**Satellite Conference and Live Webcast
Wednesday, August 8, 2012
2:00 – 4:00 p.m. Central Time**

**Produced by the Alabama Department of Public Health
Video Communications and Distance Learning Division**

Faculty

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How Is Obesity Determined?

- **Several methods can be used:**
 - **Height-weight tables used to be the standard**
 - **Measure percent of body fat**

How Is Obesity Determined?

- **Waist-to-hip measure**
 - **Measure hips and waist**
 - **Divide waist by hip measurement**

How Is Obesity Determined?

- **Waist-to-hip measure ratio**
 - **Men below 0.90**
 - **Women below 0.80**

How Is Obesity Determined?

- **Body Mass Index**
 - **BMI standard now**
 - **Measure that compares weight to height**

BMI

- Gives a number that indicates:
 - Under weight
 - Less than 18.5
 - Normal weight
 - 18.5 - 24.9
 - Overweight
 - 25 - 29.9

BMI

- Obese, Class I
 - 30 - 34.9
- Obese, Class II
 - 35 - 39.9
- Severely obese, Class III
 - 40 or greater

Calculating BMI

- $[(\text{Weight} - \text{lbs} \div \text{Height} - \text{inches}) \div \text{Height} - \text{inches}] \times 703$
 - Example
 - $(250 \text{ lbs} \div 63) \div 63 \times 703 = \text{BMI of } 44$

Use BMI Calculator

- adph.org/worksitewellness
 - Related links
 - Quizzes
 - Body Mass Index evaluation

BMI Calculator and Body Weight Comparison

BMI = kg/m²

This bmi calculator calculates **body mass index** from your Weight and Height and also shows how your weight compares to others of the same height and age.

Weight pounds or
 Height inches cm
 results: **Body Mass Index:** kg/m²

"Male" is the initial setting on this page.

Age: years ()
 Gender:

Women may prefer to bookmark this [body mass index calculator](#) instead.

Body Description:

UPDATED > [Accessibility](#) [WHO-CDC](#)

Your Weight is at compared to others of same Height and Age

Use BMI Chart

- Height in inches on left side of chart
- Go across to weight in pounds
- Number at top of column is BMI
- Can be found in ADPH Document Library under Professional and Support Services
 - Weight Watchers

Hospital Equipment Costs



Replace wall mounted toilets for floor mounted

Hospital Equipment Costs

- Sinks reinforced
- Doorways widened

Hospital Equipment Costs



Stretchers to accommodate up to 750 pounds

Transferring

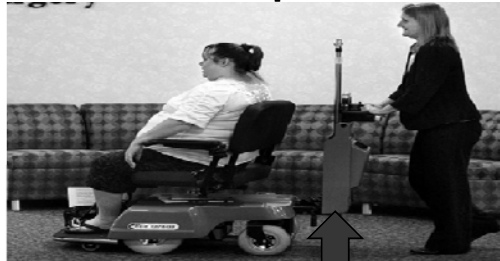


Larger Chairs



A regular sized wheelchair (L) is pictured alongside an oversized one

Transport

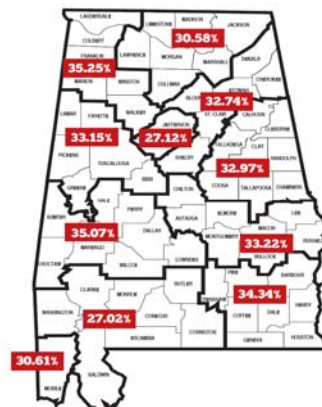


Not only larger chairs, but a motorized device to help push

Obesity in Alabama

- High rates of obesity in Alabama are well established
 - Adults – 31%
- Ranked 2nd in the F as in Fat Report for 2010

2010 Obesity Rates in Alabama by Public Health Area

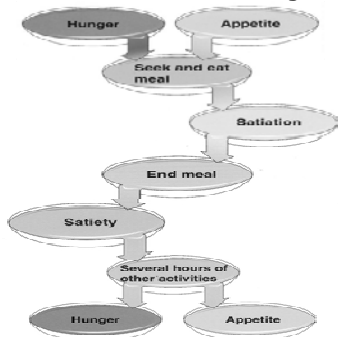


Why Do We Choose to Eat the Foods We Do?

Hunger OR Appetite
 Physical need Psychological drive

Weight of the Nation Mismatch Video

Food Intake: Normal Cascade of Regulation



Factors that Influence Food Intake

- Brain neurochemicals
- Emotional triggers
 - Stress eating
- External cues
 - Environment
- Lack of sleep
- Genetics

Environmental Effects that Contribute to Obesity



Food Composition Affects Intake

- **Protein**
 - Person eats less and blood sugar levels don't increase or drop quickly
- **Complex carbohydrates and fibers**
 - Creates feeling of fullness and person eats less

Food Composition Affects Intake

- **High fat foods**
 - Stimulate appetite and person eats more and become hungry sooner

How Can Obesity Be Managed

- **Diet**
- **Physical Activity**
- **Medications**
 - As indicated for weight loss and other disease conditions
- **Each part works with the individual's preferences, schedule, and health status**

Nutrition and Activity Goals

- **Are the same for most people regardless of weight or disease state**
 - Eat more fruits and vegetables
 - Get enough calcium from dairy or other sources to help maintain bones
 - Limit the amount of fats
 - Adequate lean protein intake

Nutrition and Activity Goals

- Limit the amount of simple sugars eaten
- Try to get at least 30 minutes of some kind of physical activity each day
- Increase amount of whole grains and high fiber foods

Ways to Increase Intake of Whole Grains and Fiber

- Eat high fiber breakfast cereals
 - Bran, barley, oats
- Add berries, nuts, flaxseed, or cinnamon to cereals

Ways to Increase Intake of Fruits and Vegetables

- Eat total of 6-9 servings of fruits and vegetables a day
 - Add applesauce to cooked cereal like oatmeal
 - Blend vegetables and add to soups or sauces
 - Chop vegetables and add to pasta dishes

Aim for More 'Whole' Fruits and Veggies

- Closer to picked state, generally the more fiber
- Helps to create feeling of 'fullness' to limit caloric intake
- Food groups with lowest calories per serving

Aim for More 'Whole' Fruits and Veggies

- Majority of vitamins and minerals needed are obtained for fruits and vegetables

Frozen and Canned Also Good Choices

- May have vitamins and minerals preserved better than fresh
- Can be more economical when certain produce is out of season
- Easier to chew
- Watch for how much sugar or salt is used in preserving

How Much and What Kind of Fats Should Be Eaten

- Include more monounsaturated fats
 - Olive oil
 - Canola oil
 - Peanut oil

How Much and What Kind of Fats Should Be Eaten

- Reduce saturated fat
 - Butter
 - Lard
 - Shortening

How Much and What Kind of Fats Should Be Eaten

- Limit trans fats to less than 1% of total calories (1g/1000 calories)
- To provide Omega 3 fatty acids:
 - Eat flaxseeds, walnuts, soybeans
 - Include 1-2 servings of fatty fish per week

Limit Portion Sizes

- Scientific experiments have shown the larger the portion size, the more you are likely to eat!

Limit Portions

- Use smaller dishes to serve meals
- When eating out, avoid buffets
- Ask for a carry out box at beginning of meal
 - Put half of food in it
- Choose smaller servings
 - Regular hamburger instead of large

Changes in Portions over the Years: Cola

20 years ago



6.5 ounces

85 calories

Today



20 ounces

250 calories

*165 calories more

Changes in Portions over the Years: Popcorn

20 years ago



5 cups

270 calories

Today



11 ounces

630 calories

*360 calories more

Good Choice?



Ingredients: Popcorn, Vegetable Oil (Contains One or More of the Following: Corn, Soybean, or Sunflower Oil), Cheddar Cheese (Milk, Cheese Culture, Salt, Enzymes), Whey, Buttermilk, Salt, and Disodium Phosphate.

CONTAINS MILK INGREDIENTS.



Nutrition Facts

Serving Size 1 oz.

Amount Per Serving

Calories 160 Calories from Fat 90

% Daily Values

Total Fat 10g 20%

Saturated Fat 2g 10%

Polyunsaturated Fat 5g

Monounsaturated Fat 3g

Trans Fat 0g

Cholesterol less than 5mg 0%

Sodium 250mg 12%

Potassium 100mg 3%

Total Carbohydrate 14g 0%

Dietary Fiber 2g 0%

Sugars 2g

Protein 3g

Vitamin A 0% **Vitamin C** 0%

Calcium 0% **Iron** 2%

Vitamin E 8% **Vitamin B1** 25%

Riboflavin 0% **Vitamin B6** 4%

Phosphorus 10% **Magnesium** 8%

Zinc 2%

* Percent Daily Values are based on a diet of other people's secrets.

† Your daily values may be higher or lower depending on your calorie needs.

Total Fat Less than 5g 10g

Saturated Fat Less than 1g 2g

Cholesterol Less than 5mg 10mg

Potassium Less than 100mg 100mg

Total Carbohydrate 50g 100g

Dietary Fiber 2g 5g

Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4

Individual Will Ultimately Decide on Food Choices

- The environment can encourage good or poor choices