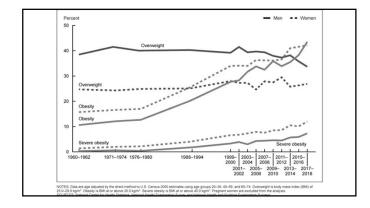
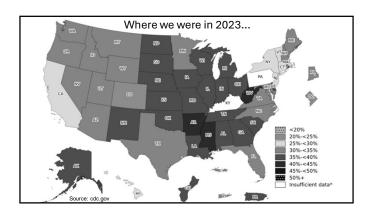
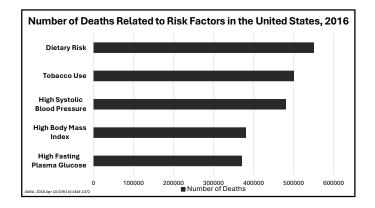


Objectives

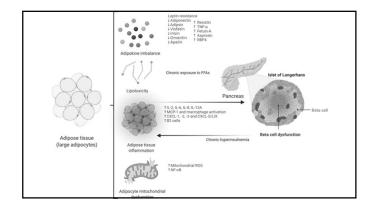
- Describe obesity trends
- Identify contribution of diet to disease and mortality
- Discuss mechanisms by which intensive dietary change can treat and potentially reverse disease
- Recall components of a healthiest diet
- · Prescribe patient centered food interventions
- Utilize the Lifestyle & Obesity Medicine Pillars as a framework to approach nutrition and health optimization

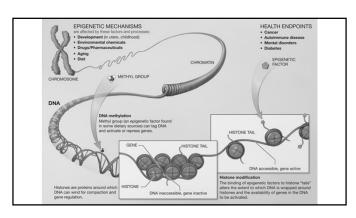








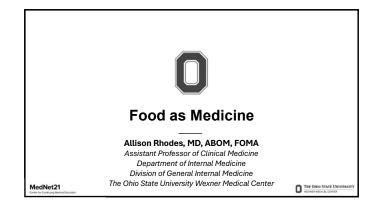


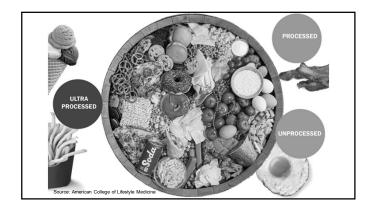


Gut Microbiome

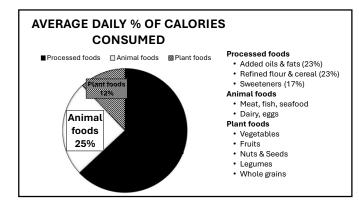
- Trillions of bacteria in colon
- Healthy bacteria
- Feed on fiber, polyphenols & resistant starches
- Create short-chain fatty acids (SCFAs): acetate, propionate,& butyrate
- Unhealthy bacteria
- Feed on meat, eggs, & food additives
- Create inflammatory compounds such as trimethylamine oxide (TMAO)

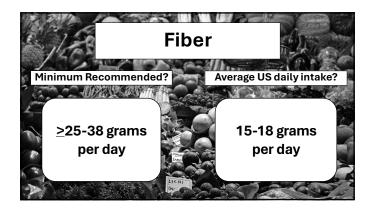


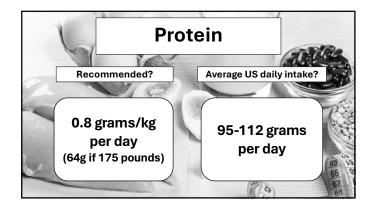




Excesses in the Standard & TRANS FAT & TRANS FAT & ADDED & SATURATED SUGAR & TRANS FAT & ADDED CHOLESTEROL SODIUM

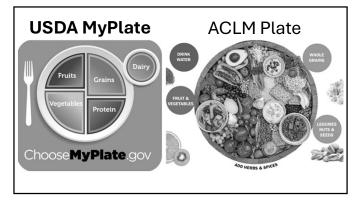












Beans (Legumes/Soy)

Up to 3 servings per day

High in protein and fiber

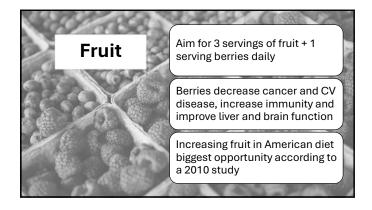
Lowers cholesterol, weight, blood sugar, and insulin levels

Decrease risk of stroke, depression and colon cancer

Soy decreases risk of breast cancer

Lectins destroyed by cooking





Cruciferous Vegetables

Broccoli, Cauliflower, Brussel Sprouts, Kale, Bok choy, Cabbage, Arugula

Aim for at least 1 serving / day

Chemical sulforaphane reduces inflammation and cancer risk, boosts liver detoxification

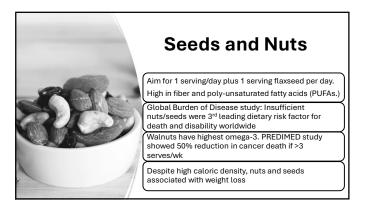


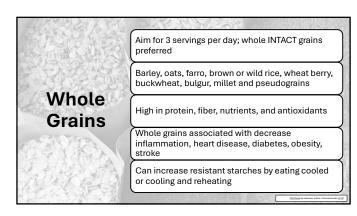
Greens, Vegetables (+ Mushrooms)

Dark leafy greens: high source minerals (calcium, magnesium, iron), vitamins, fiber. Aim for 1 serving per day. Aim for 3 other veggie or mushroom servings per day Mix and match veggies over a week to Mix & Match diversify portfolio and maximize cance

protection. Eat mix of raw and cooked.









Food as Medicine

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Diet Pattern: Mediterranean

What's Encouraged

- Olive oil as main source of fat
- 3-9 servings of vegetables
- 0.5-2 servings of whole fruit
- 1-13 servings of cereals, whole grains & legumes
- Moderate intake of:
- ✓Red wine Fermented dairy
- √Seafood Eggs
- ✓Poultry Nuts & seeds

What to Limit

- Red meat
- Ultra-processed carbohydrates & meats
- Saturated fats



Diet Pattern: DASH



What's Encouraged

- Vegetables, fruits, and whole grains
- Fat-free or low-fat dairy products
- Fish, poultry, and lean meats
- Nuts, seeds, and legumes
- Fiber and the minerals calcium, potassium, & magnesium

What to Limit

- Sodium: 1,500-2,300 mg per day
- Total fat: ~27% of total daily calories
 Saturated fat: < 6% of total daily calories
- Cholesterol: < 150 mg per day for a 2,100-calorie eating
- plan
- Red and processed meats
- Sugar-sweetened beverages & foods with added sugars

Intermittent Fasting

Potential Advantages

- Reducing "decision fatigue" regarding food selection
- Quickly reversible
- May better fit in day-to-day patient scheduling
- May reduce caloric intake with variable effects on lean body mass, resting metabolic rate, and total energy expenditure, often dependent upon physical activity
- May reduce body weight and improve metabolic parameters (i.e., improve insulin sensitivity, blood pressure, lipids, and inflammatory markers)



Potential Disadvantages

- Does not necessarily emphasize healthful meal quality
- May not be appropriate for patients with eating disorders (e.g., bulimia or bingeeating disorder)
- Increases the risk of hypoglycemia among patients with diabetes mellitus who do not appropriately adjust their hypoglycemic anti-diabetes drug treatments
- Unclear if sustainable lifelong
- Most long-termevidence of efficacy, health benefits, and safety derived from animal studies
- Prolonged fasting (not intermittent fasting) may promote gout, urate nephrolithiasis, postural hypotension, and cardiac dysrhythmias.

