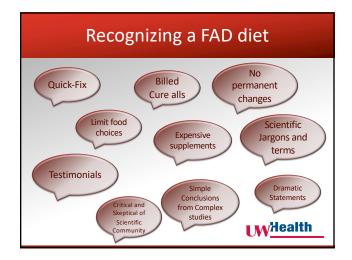
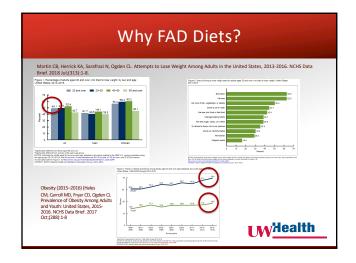


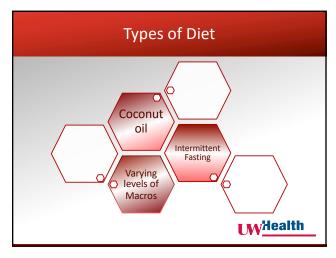


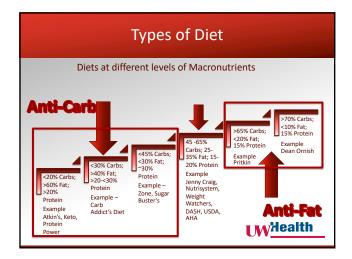
Outline

- Recognizing FAD diet
- Why do people go for FAD diets?
- Popular diet trends
- · What works? Evidence
 - Fact vs. FAD vs. Fiction
- Supporting your patients to make heart healthy choices

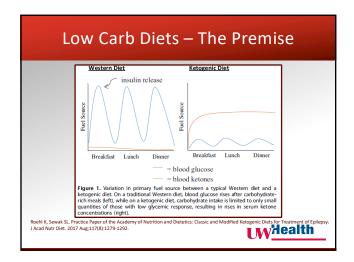


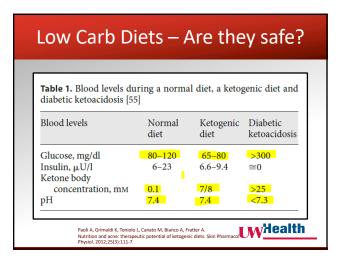


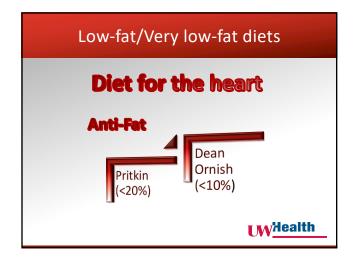


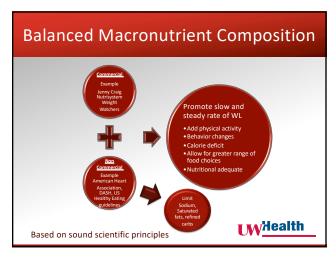




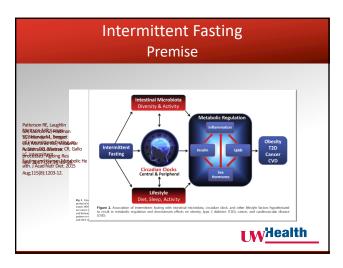


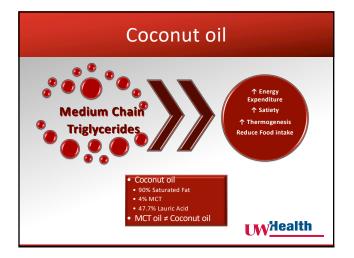








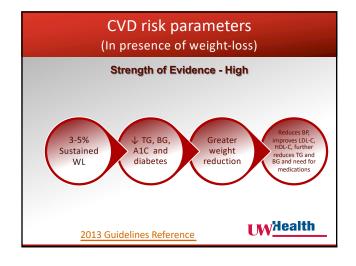


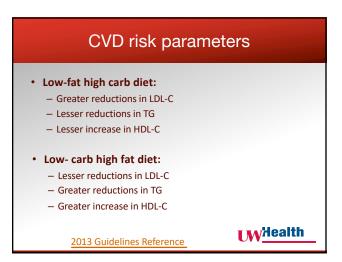












Mediterranean Vs. DASH diet BP: Reduced BP by 6-7/2-3 mm Hg When food was supplied to adults with (Compared to minimal advice to BP 120-159/80-95 mm Hg, the DASH consume a low-fat dietary pattern) Diet, when compared to a typical American diet of the 1990s, lowered BP by 5-6/3 mm Hg. (2-3/1-2 mm ealthy young Hg) – - Strength of Evidence: High adults - Stre When food was supplied to adults with Lipids: a total cholesterol level <260 mg/dL, LDL-C <160 mg/dL, the DASH Diet, Comp r no dietary when compared to a typical American advi sistent effect DL-C diet of the 1990s, lowered LDL-C by 11 on n and TG. in part due to substantial differences and mg/dL, HDL-C by 4 mg/dL, & had no limitations in the studies. effect on TG trength of Evidence: Low — Strength of Evidence; High AHA/ACC – Mostly recommends DASH diet for prevention. The strength of Evidence; High AHA/ACC – Mostly recommends DASH diet for prevention. Strength of Evidence: Low

Macronutrient Manipulation Diets Summary - FACT

- Effective Diet and Lifestyle Interventions
 - Promote behavior changes
 - Support adherence to a calorie-restricted diet
 - Nutrient dense (Macro and micronutrient composition)
 - Provide greater food choices

2013 Guidelines Reference



Intermittent Fasting Weight loss and CVD parameters Intermittent fasting — (13 trials, 2-8 week duration) • 1.3% - 8% weight loss • Seems to improve metabolic parameters • No comparison groups Alternate day fasting — 3 studies — Comparison group • Weight loss comparable to the CER (Continuous energy restriction) group • Reduction in blood glucose and insulin • Intense hunger reported Modified alternate-day fasting • 3.2% (12 wk) compared to control group • 8% (8 wk) weight loss in absence of comparison group • Limited and mixed evidence for ↓ insulin and improved lipids Patternon RE, Laughlin GA, LaCroix AZ, Hartman SJ, Natarajan L, Senger CM, Martinez ME, Willaseñor A, Sean DO, Marinac CR, Gallo LC Intermittent Fasting and Human Metabolic Health. J Acad Nutr

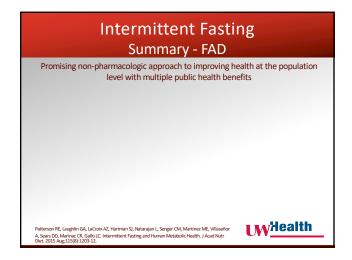
Intermittent Fasting American Heart Association

- Irregular patterns appear less favorable for achieving healthy cardio-metabolic profile
- Intentional Eating with mindful attention to timing and frequency of eating occasions could lead to healthier lifestyle and cardio metabolic risk management

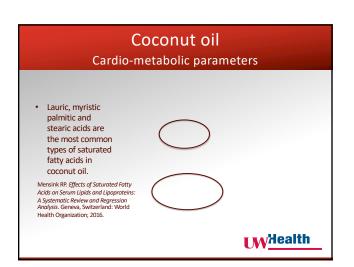
St-Onge MP et al. Meal Timing and Frequency: Implications for Cardiovascular Disease Prevention: A Scientific Statement From the American Heart Association. Circulation. 2017 Feb 28;135(9)

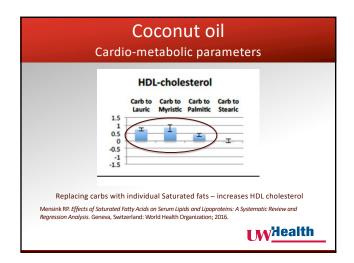


Unknown • Optimal fasting regimen (length of fasting interval, fasting # of days per week, degree of energy restriction, diet behaviors on non-fasting days) • Prolonged nightly fasting in humans and impact on health – does it show sustained improvements More research needed • Randomized trials of longer duration (free living adults) in diverse population including the more vulnerable population • Behavior and metabolic changes are sustainable • Impact on overall energy intake, sleep, energy expenditure Patterson RE, Laughlin GA, LaCroix AZ, Hartman SJ, Natarajan L, Senger CM, Martínez ME, Ullasefior A, Sears DD, Marinac CR, Gallo LC. Intermittent Fasting and Human Metabolic Health. J Acad Nutr Diet. 2015 Aug; 115(8):1203-12.

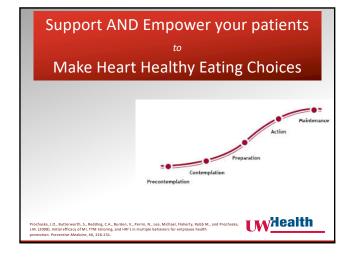


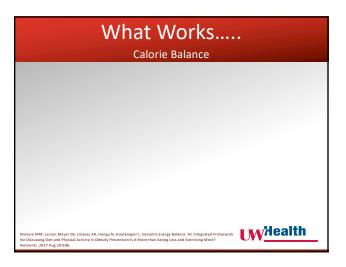
Coconut oil Weight loss Studies conducted with MCT oil show that: Doses of ~ 20-25 g may have an effect on satiety and body weight (by increasing expenditure and thermogenesis) Dose as low as 3-5 g showed some benefits in very few studies Studies conducted with coconut oil show no beneficial impact on weight loss Significant amount of coconut oil would be required to obtain sufficient amounts of medium chain triglycerides for weight loss Studies comparing coconut oil and MCT as a comparator are needed Cleg ME. They say coconut oil can aid weight loss, but can it really? Eur J Clin Nutr. 2017 WHealth



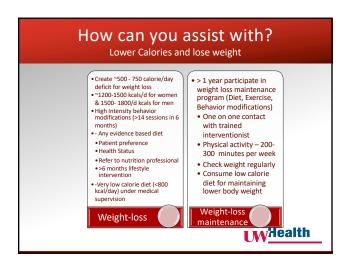








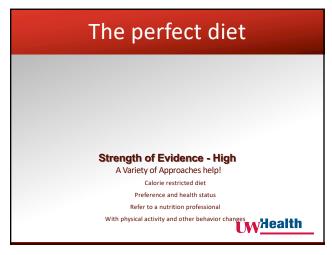
What Works.... ASK Questions Why do you want to try this diet? What other approaches have you tried in the past? Is this diet a permanent lifestyle change? If no, what is your plan after you switch back to your regular eating pattern to maintain weight loss? What is the impact of the diet you have chosen on other medical issues that you have?





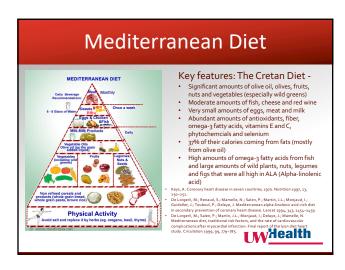












2015 US dietary Guidelines for Americans

- Recommends a "healthy eating pattern:"
 - More fruit, vegetables & grains, at least 1/2 of which are whole grains

 - A variety of protein foods (Example Seafood, lean meats & poultry, eggs
 - Legumes, nuts, seeds & soy products
 - Less salt and use mostly oils
- New Recommendations:
 - Emphasis on optimizing types of dietary fat rather than reducing total
 - Consume a diet rich in unsaturated fats
 - Limit on consumption of dietary cholesterol to 300 mg per day is not included in the 2015 edition

 - Does not suggest that dietary cholesterol is no longer important
 Current average intake of cholesterol is ~270 mg/day (Under previously recommended 300 mg)
 - Adds limit on total sugars to be consumed per day
- Limits Saturated fats and trans fats, added sugars, and sodium
 - < 10 % of calories per day from added sugars and saturated fats

 - If alcohol is consumed, it should be consumed in moderation (0-1

DASH Diet

Dietary approaches to stop hypertension

- Fruits and vegetables; Whole grains and nuts
- Low fat milk products; poultry and fish

Rich in:

- Potassium, magnesium, & calcium
- Protein and fiber

- Sweets and Sodium (~2000 or1500 mg/day)
- Sugar-sweetened beverages and red meats
- Sat (<5-6%), <1% trans fats & total fat (~30%) and cholesterol

Recommends:

- Losing weight if necessary
- Physical activity 2 hrs 30 mins per week @ moderate intensity Eventually 5 hours per week for more health benefits

Role of the PCP

- Start the conversation:
 - Strengthen the patient-physician relationship
 - Enhance the quality of care received
 - Enhance the patient's satisfaction with treatment
- - Tool designed to encourage provider & patient dialogue about the pros and cons of the patients' current status related to Weight, Activity, Variety and Excess.



ASK

- First Step: Assess How to use WAVE Nutrition **Counseling Tool**
 - W=Weight:
 - Review BMI, blood pressure, blood sugar, lipids to screen for Metabolic
 - A=Activity:
 - Ask about physical activity and/or movement in general
- V=Variety and E=Excess:
 - Conduct brief nutrition assessment
 - Intake of total fat and trans fats foods? (Goal: Lean meats & healthy fat)
 - Intake of high fiber foods? (Goal: daily or several times per week)
 - · Number of fruits and vegetables (Goal: at least 5 per day)
 - Use of sweetened beverages (Goal: reduce or eliminate)
 - Use of alcohol? (Goal: ≤2 per day for men & ≤1 per day for women)
 - Smoker? (Goal: Eliminate)



Advise

Give clear, specific and personalized behavior change advice. You might say:

- "Based on what you know about your lipids, where is a place you may be willing to start in order to modify your eating and exercise behaviors?
- Hint: Their response will identify where the patient is in their readiness to change

For patients taking medication for hypertension, diabetes or lipids:

"What you choose to eat and drink is important even if you are taking medication since it could help the medicine do a better job. With a healthy diet and weight loss, you may be able to save money by cutting down on the amount of medicine you take. If that's the case, where would you be willing to start?"

For a patient NOT ready to change behavior, add:

"I'd like to help you make changes in your diet and be more active when you are ready."

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Agree

Collaborate with patient to select treatment goals & methods

- For patients NOT ready to change behavior:
 "Is it okay if I ask you about (eating, exercise,
 - meds, etc) again at our next visit?'
- · Possible goals for patient ready to change:
 - Keep a food and exercise record to help increase awareness
 - · Refer to a Registered Dietitian
 - · Return for progress check in 2-4 weeks



Assist & Arrange

- Assist:
 - Help patient acquire knowledge, skills and support for behavior change through an Action Plan.
 - Provide clear, concise handouts and community or electronic resources, based on patient learning style and readiness to change
- · Arrange:
 - Schedule follow-up
 - Follow-up Appointment and/or Referral to Specialty
 - Give patient a copy of the Action Plan Twhealth



Keep it Simple & Refer

Regardless of which diet you or your patient wants to follow, consider the following and guide them in a healthy direction.

- Timing of meals/snacks ~every 4 hours
- · Nutrient intake and balance
 - Intake of fruits and vegetables
 - Include a protein at each meal & snack
 - 2 food groups at a snack
 - 3 food groups at meals
- · Reduce simple sugar consumption
- Address source of fat intake
- · Lower sodium intake
- · Increase fiber intake
- Address alcohol consumption
- Encourage moderate physical activity



Example - Lipid Disorder

- Sample Diet
- Breakfast:
 - 2 Egg & Sausage McMuffins
- Lunch:
 - Wendy's Baconator & Chicken Sandwich
- Supper:
 - 12" Sub & Cookie
- · Bedtime Snack:
 - Chips, cookies or ice cream
 - Beverages throughout the day: - 20 oz of Coffee, <20 oz of Water, 1-3 Diet Sodas & Alcohol 1-2x/week

Cholesterol: 650 Triglycerides: 3994 **HDL: 18** LDL: Unable to calculate BMI: 31.05 kg/(m^2)

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Example – Lipid Disorder

- Improved Sample diet:
- Breakfast:
- Oatmeal or 2 pc of toast with PB
- Snack:
- Lunch:
- Supper:
- · Beverages:
 - 20 oz Coffee and 8, 16 oz water bottles .
 - Alcohol once every 2 weeks
 - Scotch on the rocks, 1-2

- Patient Goals:
- Consume small, frequent meals (5-6) eaten every 3-4 hours
- Need to keep intake low fat and low carb while triglycerides are elevated
 - Focus on protein at snacks and protein and vegetables at meals
- . Leave out the carb for right now or at a minimum keep it to 1/4 of the plate
- Salmon with baked potato + asparagus +
 Try to switch to having a more protein
 - Eggs/veggies in muffin tins
 - Afternoon snack: Quest bar or veggies and
 - Exercise Goal: Schedule in 3 days/week.



Example – Metabolic Syndrome

- Sample Diet
- Breakfast:
- Bagel w/cinnamon & sugar & coffee Snack:
- 3 Banana within an hour Lunch:
- Cheerios/Rice Krispies, sandwich, or a burger Snack:
- - Sugar-free cookies & Hard candy
- Supper:
 - Sandwich with rice/cabbage or some sort of vegetables or pot roast with potatoes/carrots, salmon/pork chops/chicke with rice & vegetable, or orders pizza (1-2 times per week)
- Snack:
- 2-3 Mini Kit Kats or Hershey bar most nights
- Beverages:
 - 1 cup of coffee with cream/sugar, easily 64 fl oz of water, 3-4 gallons of milk in a week, no juice, soda a couple times per

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Cholesterol: 136

Triglycerides: 143

Hemoglobin A1C: 6.3%

Blood Pressure: 154/62

BMI: 32.71 kg/(m^2)

HDL: 49

LDL: 58

Example – Metabolic Syndrome

- Updated Sample Diet
- Breakfast: Egg Sandwich & coffee
- Lunch: Sandwich & raw veggies
- Snack: Fruit + LF String Cheese
- Supper: Salmon/pork chops/chicken _ Mid-morning snack: Fruit + Protein with rice & vegetable
- · Snack: Optional: Handful of nuts · Beverages: 1 cup of coffee with cream & less sugar, 64 fl oz of water
 - 1 gallon of milk/week

Patient Goals:

Consume small, frequent meals (5-6) eaten every 3-4 hours

carbohydrates with lean protein and/or healthy

- Add protein to breakfast
- Mid-afternoon snack: Fruit + Protein
- Evening snack: Be mindful of whether this is hunger or habit

Use the plate diagram to help with portion sizes and balance

- Lunch: Emphasize veggies and get a side salad when eating out
- Supper: Continue current bala
- Cut back on intake of pilly Health
 Exercise Goal: Plan in 3 days per week

Example - HTN

- Sample Diet
- · Breakfast: skips
- Running to the bus by 6:45 (lucky if meds are taken) Snack:
- - Leftovers eaten over the course of 2 hours (Spaghetti)
- Taco bar, Asian salad, or spicy noodle bowl at the cafeteria
- Snack:
 - Not usually. Maybe raw veggie & ranch if time
- Supper:
- Sloppy Joe's with baked beans & broccoli
- - 16 oz of wine with Taquitos, beef jerky (1/2-1 bag) or Spaghettios
- Beverages:
 - 6 pack of Diet Mt. Dew. Doesn't drink plain water unless sick

Blood Pressure: 140/88, 140/102, 156/88 Cholesterol: 192 Triglycerides: 159 HDL: 66 LDL: 94 BMI: 31.29 kg/(m^2) **W**Health

Example – HTN – Patient Goals

- Consume small, frequent meals (5-6) eaten every 3-4 hours
 - Try to eat (almonds or individual pack of jerky, drink a protein shake or bar within an hour
 - Plan in a mid-morning and mid-afternoon snack
- Balance meals/snacks by pairing complex carbohydrates with lean protein and/or healthy fats
 - Mid-morning snack: Veggies & hummus
 - Mid-afternoon snack: Peeled orange with nuts or 1 individual pack of jerky
 - Evening snack: Be mindful of whether or not this hunger or habit
- Use the plate diagram to help with portion sizes and balance
 - Lunch: Emphasize veggies and get a side salad
 - Supper: Portion back on the meat, continue or increase vegetables and be mindful of the
 - Avoid alcohol if possible
- Exercise Goal: Consider getting on the elliptical and shoot for 3 days per Cut back salt, read labels, unsalted snacks if possible WHealth

Example - Diabetes

- Sample Diet
- Breakfast:
 - Cheerios with a glass of juice and a banana
- None-unless having a low blood sugar & then has a glass of
- · Lunch:
 - Sandwich with chips and fruit or LF yogurt
- Snack: Trying not to snack
- Supper:
 - Spaghetti with garlic bread
 - Pork chops with a baked potato and steamed vegetables
- Bedtime Snack:
 - Pretzels or popcorn
 - Beverages:
 - 24 oz of Water, 3 cans of diet soda per day, 20 oz of coffee

Hemoglobin A1C: 6.6% Glucose: 225 Cholesterol: 112 Triglycerides: 166

HDL: 32 LDL: 47

BMI: 34.40 kg/(m^2)

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Example – Diabetes- Patient Goals

- Consume small, frequent meals (5-6) eaten every 3-4 hours
 - Plan in regular mid-day snacks in the AM & PM
- Balance meals/snacks by pairing complex carbohydrates with lean protein and/or healthy fats
 - Pull out some of the carb at breakfast and add protein
 - Peanut butter, eggs, or string cheese

 - Mid-morning Snack around 9:30 on exercise days:
 Banana + natural peanut butter or Greek yogurt
 Mid-afternoon snack around 3:00:
 Fruit + peanuts or Greek yogurt
- Use the plate diagram to help with portion sizes and balance
 - Lunch: Get consistent with having a side salad or adding veggies
 - Supper: Continue to model the plate diagram and fine tune it
 - If wanting dessert, plan it into your meal as your carb for the meal
- Continue with your water drinking and try to continue avoiding soda.
- Exercise Goal: Continue current exercise routine

