



48 y.o. female presents as a new patient because she "cannot lose weight." Lost only 6 pounds in 12 wks. with lifestyle interventions. Goal wt 145 lbs

Ht: 65 in Wt: 171 lbs. BMI 28.5 BP 128/78 HR 72

PMH: HTN recently started on lisinopril 10/12.5 mg after BP failed to normalize with lifestyle interventions.

Lifestyle interventions:

Diet: 1650 calorie restricted diet using smart phone app to track intake; Meets calorie restriction 85-90% of days.

Exercise: 3-4 days per week 30-45 min. Includes a variety of activities (walking/elliptical, group exercise, light weights)

Pertinent lifestyle history: Has a goal to stop blood pressure medication. Elevated blood pressure 10 years ago that she was able to normalize with weight loss and high intensity exercise. Weight regain began 3 years ago after severe LE injury that has limited her to low intensity exercise. A promotion 18 mo. ago has meant more travel and increased frequency of dining out.

35 y.o female presents for weight management.

Case #2

Key factors: struggled w/weight since early 20's; tried many different diet/exercise interventions; max 15-20 pounds lost w/rapid regain; stops interventions due to lack of progress, difficult to sustain changes and hunger

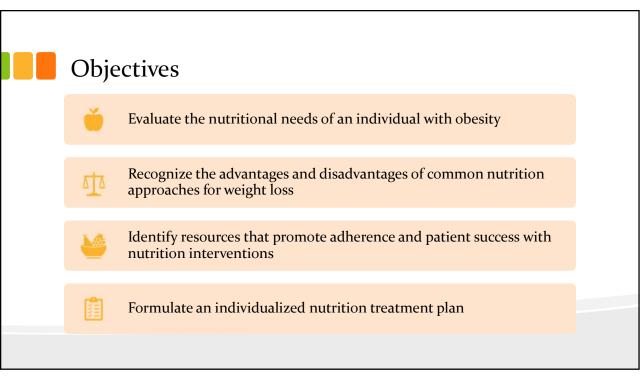
Current motivation: mid back pain; needs breast reduction; must have BMI <35; worried about have to go on disability if cannot have surgery

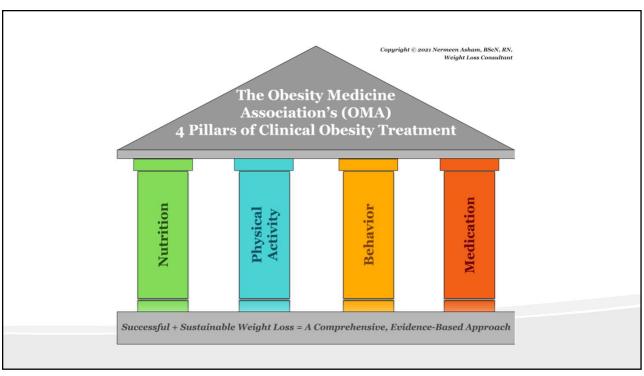
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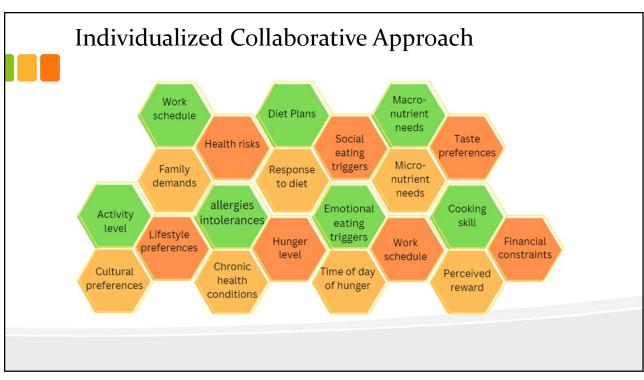
Current Medications: valsartan 160 mg; amlodipine 10 mg, meloxicam 15 mg daily

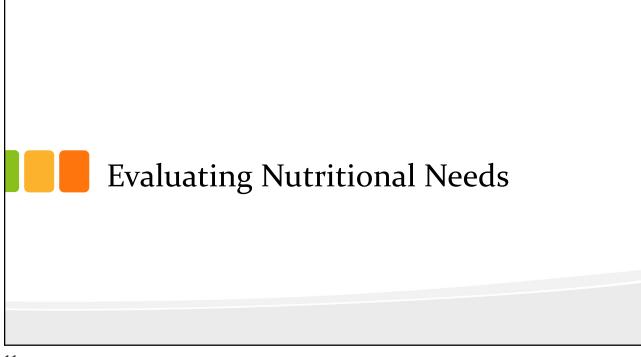
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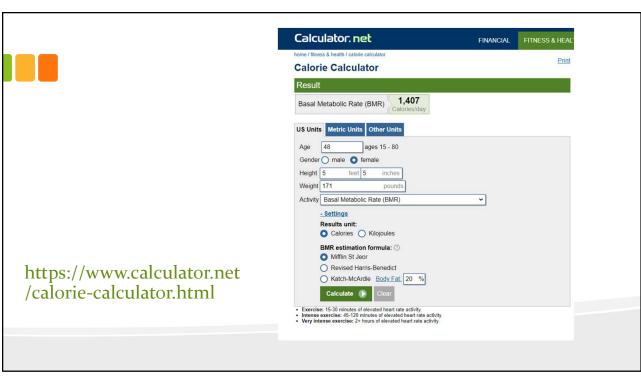
Mifflin-St Jeor Equation

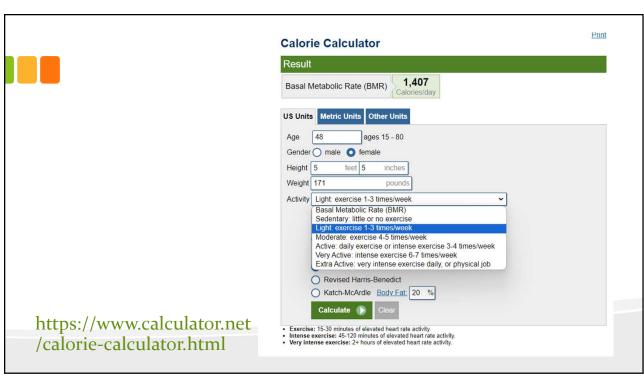
Tool to predict daily energy expenditure in healthy adults.

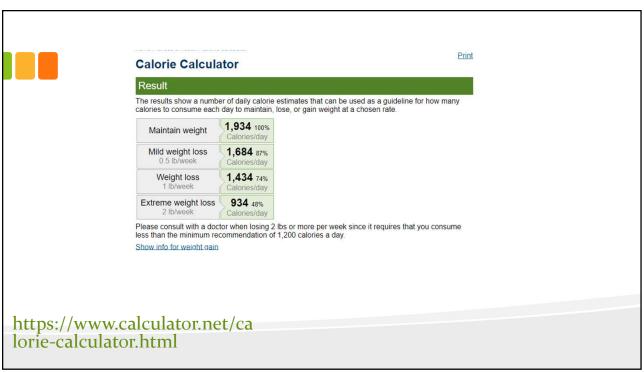
Females: (10*weight [kg]) + (6.25*height [cm]) - (5*age [years]) - 161

Males: (10*weight [kg]) + (6.25*height [cm]) - (5*age [years]) + 5

Multiply by scale factor for activity level: Sedentary *1.2 Lightly active *1.375 Moderately active *1.55 Active *1.725 Very active *1.9









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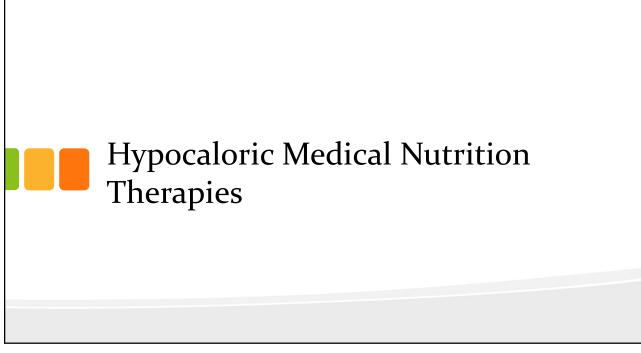
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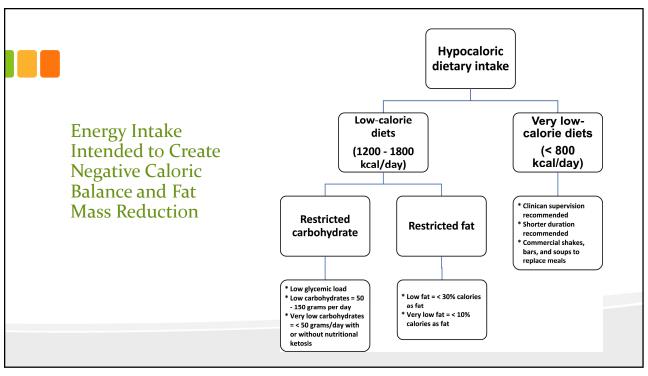
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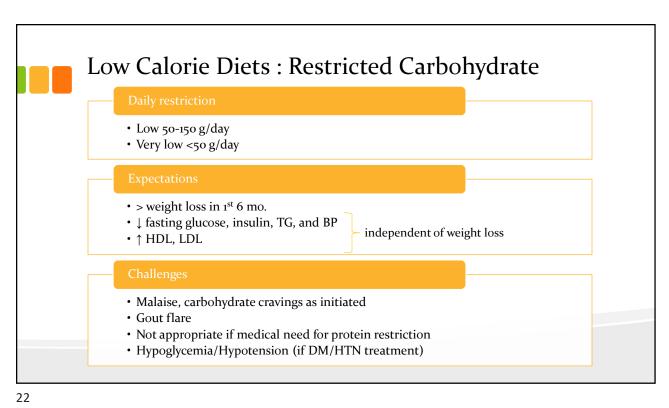


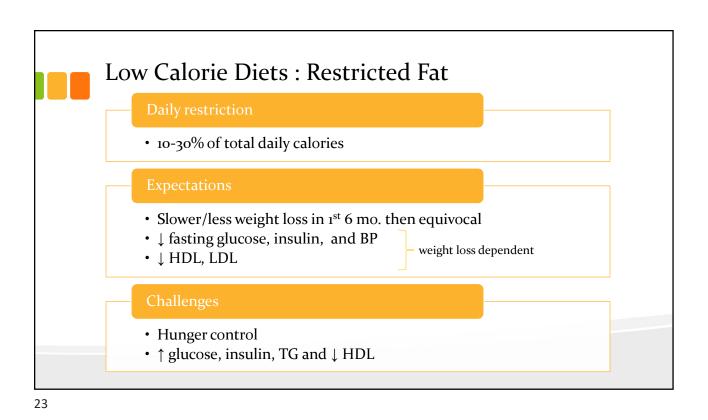
Dietary Reference Intakes (DRIs): Acceptable Macronutrients for Adults

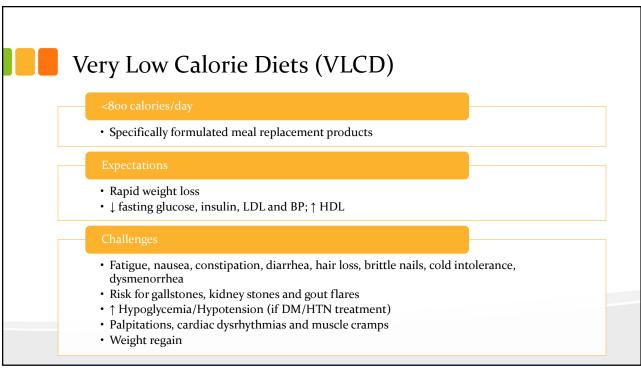
Macronutrient	Range (% of Energy)	Grams/day
Fat (9 kcal/g)	20-35	30
Omega 6 polyunsaturated fatty acids	5-10	
Omega 3 polyunsaturated fatty acids	0.6-1.2	
Carbohydrate (4 kcal/g)	45-65	130 g/day
Protein (4 kcal/g)	10-35	o.8 to 2.0 grams/kg/day
Alcohol (7 kcal/g)		

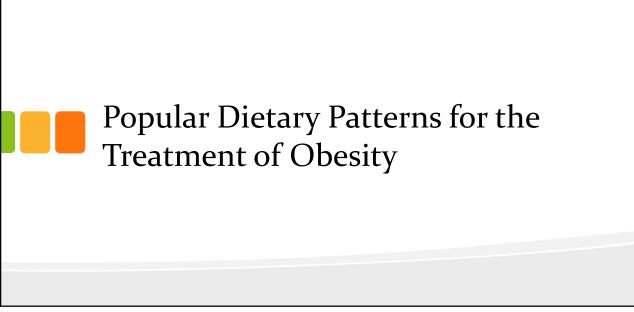


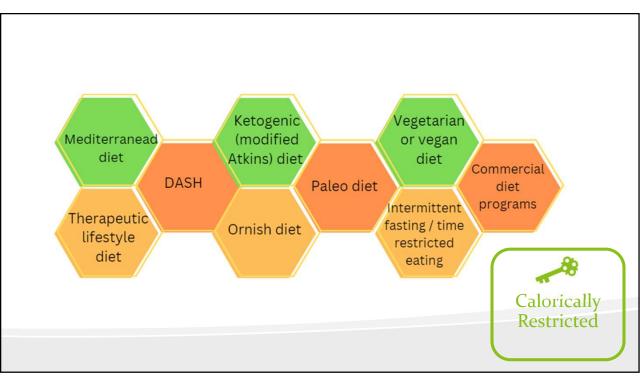














Ketogenic Diet (Keto or Modified Atkins Diet)

Carbohydrate restrictive diet that promotes use of fat for energy and generates ketosis

Encouraged

- 20g (induction) to 60-90 g (maintenance) carbohydrate daily
- · Adequate protein
- Balance of saturated, monounsaturated and polyunsaturated fatty acids

Discouraged

- Ultra processed/refined foods, high glycemic index foods
- Trans fatty acids
- Cereals, breads, grains (except cheese), starchy vegetables, and most fruits (liberalized in maintenance)



Ketogenic Diet (Keto or Modified Atkins Diet)

Carbohydrate restrictive diet that promotes use of fat for energy and generates ketosis

Advantages

- Clinically meaningful weight loss
- · Reduced hunger
- Metabolic improvement-glucose/insulin, DBP, TG, HDL
- Seizure disorders, cancer

Disadvantages

- ↑ LDL (marked increase rare)
- Insulin sensitivity improvement dependent on weight reduction
- Transient fatigue and decrease in mental cognition



Mediterranean Diet

Primarily plantbased eating plan with sufficient scientific evidence for risk reduction of CVD, obesity, type 2 diabetes, metabolic syndrome and obesity

Encouraged

- Olive oil as main source of fat
- Vegetables, fruit, legumes, whole grains, nuts, seeds
- Red wine (in moderation)
- Moderate intake of seafood, fermented dairy products poultry and eggs

Discouraged

- Red meat, processed meat
- Ultra-processed carbohydrates
- Saturated fats



Mediterranean Diet

Primarily plant based eating plan with sufficient scientific evidence for risk reduction of CVD, obesity, type 2 diabetes, metabolic syndrome and obesity

Advantages

- Fat intake: ↓ saturated fat, ↑ Omega-3 fatty acids
- Disease risk reduction

Disadvantages

- Modest weight loss
- Cost/access to preferred food choices



Comparison of dietary foods between Mediterranean and Western Diets.

Foods	Mediterranean Diet	Western Diets	
Vegetables	Every main meal (≥2 servings)	Rarely	
Fruits	Every main meal (1–2 servings)	Rarely	
Bread/pasta/rice/couscous/other cereals	Every main meal (1–2 servings, preferably whole grain)	Rarely whole grain cereals, often refined grains	
Olive Oil	Every main meal (3–4 servings, expecially extra virgin)	Rarely olive oil, often replaced by margarine and butter	
Nuts/seeds/olives	Every day (1-2 servings)	Occasionally	
Dairy Foods	Every day in moderate portions (2 servings, preferably low fat)	Often high fat dairy foods	
Herbs/spices/garlic/onions	Every day (less added salt)	Less often	
Legumes	Weekly (≥2 servings) Less often		
Potatoes	Weekly (≤3 servings)	Less often	
Eggs	Weekly (2–4 servings) Less often		
Fish/seafood	Weekly (≥2 servings)	Less often	
White meat	Weekly (2 servings)	Less often	
Red meat	Weekly (<2 servings)	Often	
Processed meat	Weekly (≤1 serving)	Often	
Sweets	Weekly (≤2 servings)	Often	

Obesity and the Mediterranean Diet: A Review of Evidence of the Role and Sustainability of the Mediterranean Diet - Scientific Figure on ResearchGate. Available from: https://www.researchgate.net/figure/Comparison-of-dietary-foods-between-Mediterranean-and-Western-Diets_tbli_333685197 [accessed 3 Mar, 2024]





DASH Diet

"Dietary Approaches to Stop Hypertension" – Diet pattern promoted to treat high blood pressure.

Encouraged

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

Discouraged

- Limit sodium: 1,500 2,300 mg per day
- Limit total fat: ~27% of total daily calories.
- Limit saturated fat: <6% of total daily calories
- Limit cholesterol: 150 mg (for 2,100 kcal/d)
- · Avoid red and processed meats
- Avoid sugar sweetened beverages
- · Avoid food with added sugars



DASH Diet

"Dietary Approaches to Stop Hypertension" – Diet pattern promoted to treat high blood pressure.

Advantages

- May reduce CVD risk
- May improve blood pressure and dyslipidemia

Disadvantages

- Challenging to maintain
- Eliminates most convenience foods
- Limited weight loss



Vegetarian Diet

Primarily plant based dietary intervention. Multiple variants.

Encouraged

- Vegetables
- Fruits
- Whole grains
- Legumes
- Seeds, nuts
- Variants may include eggs, milk, seafood, and occasional poultry

Discouraged

• Animal protein (variable per variant)

Vegetarian Diet Variants. Common variants of the vegetarian diet, including veganism, lacto-vegetarianism, lacto-ovo vegetarianism, pescatarianism, and flexitarianism [77,78].

VEGETARIAN DIET VARIANTS		
Vegan ("total vegetarian")	Only plant-based foods (e.g., fruits, vegetables, legumes, grains, seeds, and nuts) with no animal proteins or animal by-products, such as eggs, milk, or honey	
Lacto-vegetarian	Plant foods plus some or all dairy products (e.g., cheese)	
Lacto-ovo vegetarian (or ovo- lactovegetarian)	Plant foods, dairy products, and eggs	
Semi- or Partial Vegetarian	Plant foods and may include chicken or fish, dairy products, and eggs, but not red meat	
Pescatarian	Plant foods and seafood	
Flexitarian	Mostly plant-based foods (minimally processed), with occasional fish, meat, and animal products in moderation	

Lydia Alexander, Sandra M. Christensen, Larry Richardson, Amy Beth Ingersoll, Karli Burridge, Angela Golden, Sara Karjoo, Danielle Cortez, Michael Shelver, Harold Edward Bays; Nutrition and physical activity: An Obesity Medicine Association (OMA) Clinical Practice Statement 2022, Obesity Pillars, Volume 1, 2022, 100005, ISSN 2667-3681, https://doi.org/10.1016/j.obpill.2021.100005.



Vegetarian Diet

Primarily plant based dietary intervention. Multiple variants.

Advantages

- Reduced risk of CVD, heart failure
- Beneficial effects on metabolic disease, cancers, all- cause mortality
- Promotes weight loss maintenance

Disadvantages

- Health benefits may be negated by energy dense, ultra-processed plant-based foods
- Vitamin/mineral deficiencies



Therapeutic Lifestyle Change Diet (TLC)

Low-fat meal plan commonly utilized in lipid clinical trials.

Encouraged

- Total fat: 25-35% of daily calories
 - PUFA: Up to 10% of daily calories
 - MUFA: Up to 20% of daily calories
- Carbohydrate: 50% to 60% of total calories
- Soluble fiber: min. 5-10 g/day, pref. 10-25 g/day
- Plant stanols or sterols 2 g/day

Discouraged

- Limit saturated fat: < 7% of total calories
- Limit cholesterol: < 200 mg a day
- Avoid foods with trans fatty acids.



Therapeutic Lifestyle Change Diet (TLC)

Low-fat meal plan commonly utilized in lipid clinical trials.

Advantages

- Encourages healthful lifestyle habits
- May improve lipid levels

Disadvantages

- Requires close tracking of macronutrients
- May produce limited weight loss



Ornish Diet

Vegetarian diet low in fat, refined sugar and animal protein that has shown potential to reverse CVD in combination with aerobic exercise, stress management and support group participation.

Encouraged

- Foods eaten in natural form
- Vegetables, fruits, whole grains, and legumes
- · 1 serving soy product daily
- · Limited green tea
- Fish oil 3-4 g/day
- Small frequent meals

Discouraged

- Limit dietary fat: < 10% of daily calories
- Limit dietary cholesterol: 10 mg per day
- · Limit sugar, sodium, and alcohol
- Avoid animal products (including fish)
- Avoid caffeine (except green tea)
- · Avoid trans fatty acids
- · Avoid refined carbohydrates and oils



Ornish Diet

Vegetarian diet low in fat, refined sugar and animal protein that has shown potential to reverse heart disease in combination with aerobic exercise, stress management and support group participation.

Advantages

• May reduce (reverse) CVD

Disadvantages

- Very restrictive
- Difficulty to maintain long term
- Limited weight loss



Paleolithic Diet

Eating plan patterned on the diet presumed to be eaten in the paleolithic period.

Encouraged

- Fresh vegetables, fruits, and root vegetables
- Grass-fed lean red meats
- Fish/seafood
- Eggs
- Nuts and seeds
- Naturally produced oils

Discouraged

- Cereal grains
- Legumes, including peanuts
- Dairy products
- Potatoes
- Ultra-processed foods
- Refined sugar, refined vegetable oils, and salt





Eating plan patterned on the diet presumed to be eaten in the paleolithic period.

Advantages

- Reduced intake of preservatives, fillers, and nonnatural additives
- Anti-inflammatory
- Improved satiety
- May promote weight loss, ↑ insulin sensitivity, ↓ BP

Disadvantages

- Cost/access to appropriate food choices
- Difficult for vegetarians
- · Limited weight loss



Periods of not eating that limit overall

Periods of not eating that limit overall intake used therapeutically with the intent to avoid malnutrition

Periodic Fasting

- Limited food for >2 consecutive days
- 1 week of normal eating

Intermittent Fasting

- Limited food intake on certain days
 - 5:2 limited x 2 d; normal x 5 d
 - 2: 1 limited x 1 d; normal x 2 d
 - 1:1 limited normal in equal durations
- Time Restricted Feeding
 - food limited to a fixed period during the day



Intermittent Fasting/Time Restricted Eating

Periods of not eating that limit overall intake used therapeutically with the intent to avoid malnutrition

Advantages

- Reduced "decision fatigue"
- Quickly reversible
- Overall reduced caloric intake
- Metabolic improvement: weight, insulin sensitivity, BP, lipids, inflammatory markers

Disadvantages

- No emphasis on healthful food choices
- Caution with comorbid eating disorders
- Hypoglycemia risk
- · Unknown if provides sustained disease improvement
- Risk of gout, nephrolithiasis, postural hypotension and cardiac dysrhythmias w/prolonged fasting



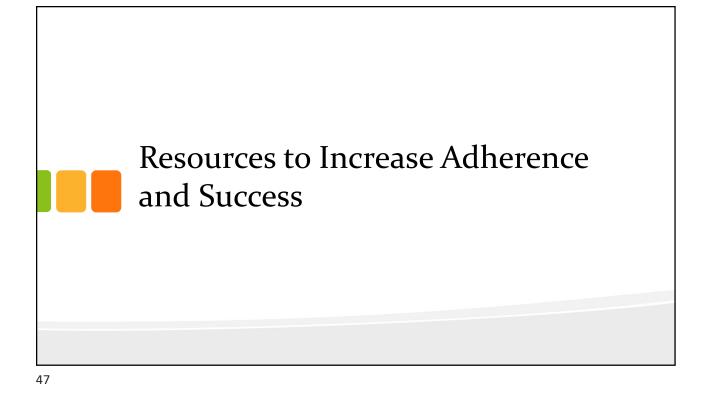
These options usually provide resources such as pre-packaged meals, menus, diet plans, support and more. They traditionally use a 1,000 to 1,500 calorie-per-day diet plan

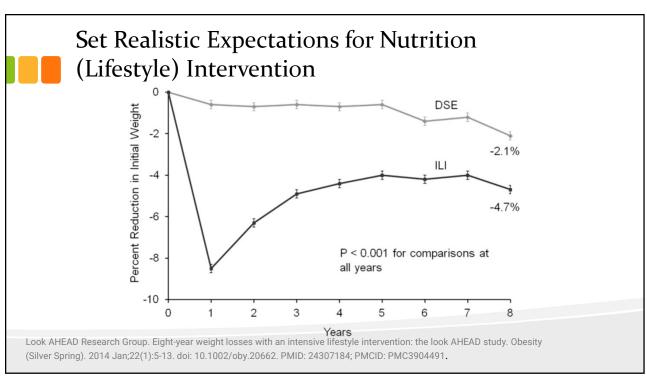
Advantages

- Reduced need for planning
- Support (virtual, face to face, technology)
- Apps/guides for added support

Disadvantages

- Cost
- Minimal medical studies
- Risk of weight regain if program discontinued
- Minimal support for food selection outside of prescribed meal plan





Set Realistic Expectations for Nutrition (Lifestyle) Intervention

Case #1:

Wt: 171 lbs. BMI 28.5 Goal Wt: 145 lbs; BMI 24.5 Desired:

• 26 lbs (15%)

Expected:

- 1 yr 14 lbs
- 8 yr 8 lbs

Case #2

Wt: 286 lbs. BMI 44.8

Goal: BMI <35; <223 lbs

Desired

• 64 lbs (22 %)

Expected

- 1 yr = 24 lbs
- 8 yr = 13 lbs



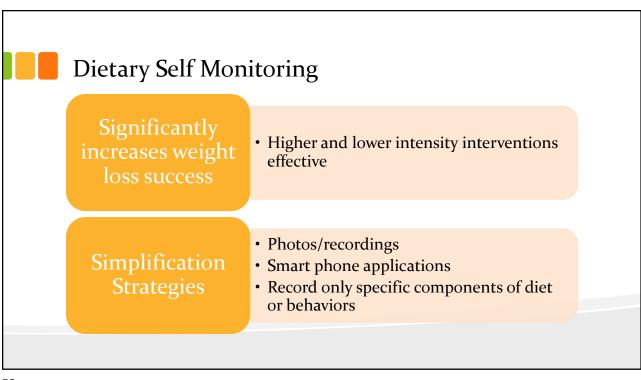
Registered Dietitian Nutritionist (RDN)

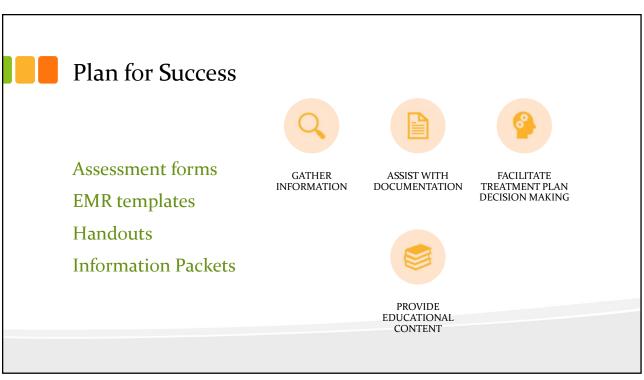
- Establish relationship
- Specialization
 - Certificate of Training in Adult/Pediatric Weight Management
 - Certified Specialist in Obesity and Weight Management
- Dose of Intervention
 - 5+ contacts
 - 12 months in duration
 - ongoing contact Q3 mo for as long as desired by client



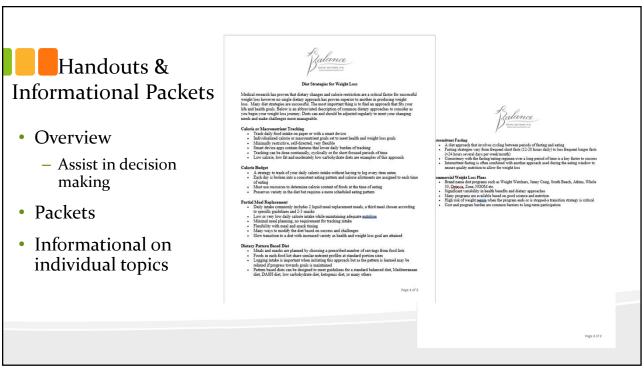
Intensity of Intervention

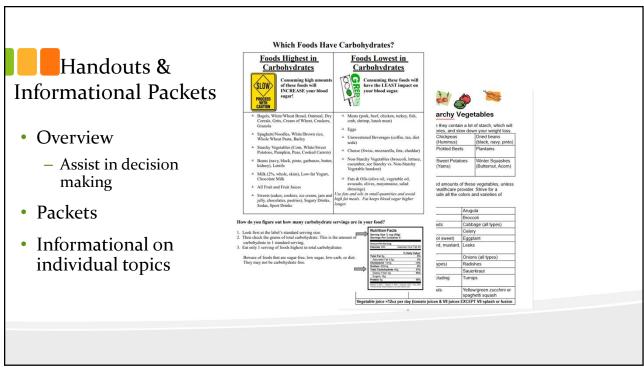
- Frequency of contact is important to outcomes
- Intensity
 - High intensity = ≥14 sessions in 6 month
 - Moderate = 1-2 sessions /month
 - Low intensity = less-than-monthly sessions
- Comprehensive lifestyle intervention
 - Multiple team members may provide contact
- Weight loss maintenance program for 2.5 years reduces weight regain

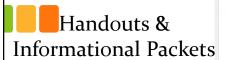




	Dietary/Nutritional History				
Assessment Form	Current Eating Routines/Habits: O Eat 3 meals a day O Frequent Snacker O Binge Eater O Emotional Eater O Healthy Eater O Eat more than 3 meals a day O Skip meal often/Eat 1 time/day O Wake overnight to eat O other				- - -
	What time of the day are you usually the hungriest?	O Morning O A	fternoon O I	Evening	O Late Night
	What meal of the day is the largest?	O Breakfast O Lu	unch O I	Dinner	a v
What approaches to healthy lifestyle or weight management have you tried in the past:					
Mark Y for what worked, Mark N for what did NOT work, and Limiting portion size Using meal replacements Tr	The second secon				
	eto/Paleo/Whole 30 Low Fat Diet				
OTC med/supplement Prescription medication Commercial Weight Loss Program Bariatric Surgery					
Lifantula O. Antivitus					







- Overview
 - Assist in decision making
- Packets
- Informational on individual topics



Meal Planning

One of the most vital skills for successful weight loss ar weight maintenance is meal planning. If you are strugg with what to eat on your diet or the amount of time it tak plan or prepare a meal, try some of the tips provided bel

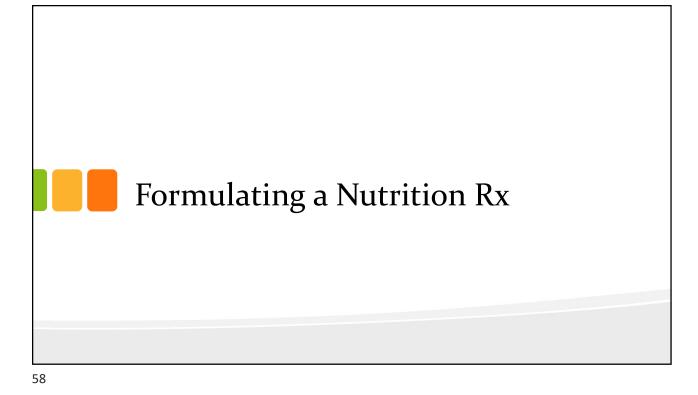
- Prepare meals in bulk so leftovers can be used as additional mea (For Example: Load your grill with several types of meat on the weeks you are ready for the upcoming week.)
- Store leftovers in single serving sized disposable tupper-ware like containers or zip top bags for "on demand" meals. Y store complete meals together or items in single servings so you cand match meat selections with sides for greater variety.
- Experiment with cooking, do NOT burn yourself out by eating the same everyday. You should have a goal of finding 1 new way to prepare a and vegetable each week.
- Shop for pre-cooked and easy to prepare items to make food prepare ite
- If you do not have time or the desire to cook on some days of the we ahead and dine-out. Be sure to make smart choices by choosing " green" glotes. If you know the mean well eneaging, decide what you having hefore entering the restaurant. You can make substitutions i timens to help decrease temptation.



Meal and Snack Timing

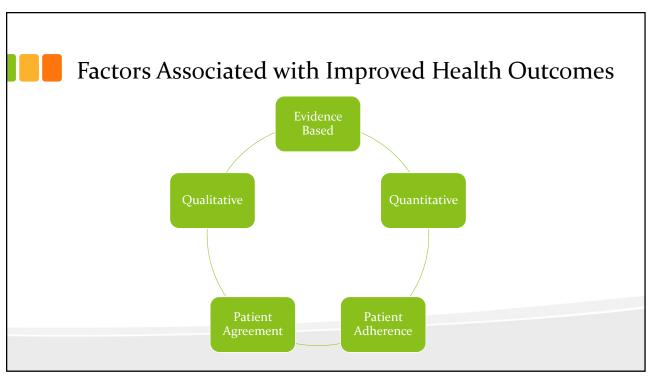
Many people struggle with the timing of eating meals and snacks, especially when they are trying to lose weight. The first thing to know is that there is No on right way. The "right" way is the one that works for you. Use the advice provided below to help you customize and develop your "own way".

- It is not required that you eat six meals or snacks a day.
- The main idea of eating <u>every 3 to 4 hours</u> is to space out your food intake so you do not overindulge when you are <u>hungry</u> (especially in the evening).
- There is <u>not a set pattern</u> for eating your meals and snacks (example: you can eat snack, snack, <u>meal</u> or snack meal snack).
- There is <u>not a set</u> or <u>scheduled time</u> that your meals and snacks should be eaten. It's important to set your own schedule that you are able to follow (For example: snack at 12m, lunch at 3m. Your schedule of eating does not have to be the same <u>everyday</u>.
- If the timing of your meals and snacks continues to be a challenge to your success, be sure to discuss this issue with your health care provider.





The most appropriate nutrition therapy for the management of obesity is one that is **safe**, **effective**, and one that the patient is most likely to **adhere**.







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Pertinent lifestyle history: Has a goal to stop blood pressure medication. Elevated blood pressure 10 years ago that she was able to normalize with weight loss and high intensity exercise. Weight regain began 3 years ago after severe LE injury that has limited her to low intensity exercise. A promotion 18 mo. ago has meant more travel and increased frequency of dining out.

Which initial nutrition advice is most appropriate to aid her in reaching her weight loss goal?

- A. Start a very low-calorie diet (<800 calories/day)
- B. Transition to an intermittent fasting diet
- C. Reduce caloric restriction to 1200-1400 calories daily
- D. Transition to the DASH (Dietary Approach to Stop Hypertension) Diet

Case #1

35 y.o female presents for weight management.



Key factors: struggled w/weight since early 20's; tried many different diet/exercise interventions; max 15-20 pounds lost w/rapid regain; stops interventions due to lack of progress, difficult to sustain changes and hunger

Current motivation: mid back pain; needs breast reduction; must have BMI <35; worried about haveing to go on disability if cannot have surgery

Ht: 67 in Wt: 286 lbs. BMI 44.8 BP 135/85 HR 88

Current Medications: valsartan 160 mg; amlodipine 10 mg, meloxicam 15 mg daily

Medical Hx: GDM w/2 of 3 pregnancies, HTN, chronic back pain

FH: Mother-type 2 diabetes, HTN, hyperlipidemia, osteoarthritis, obesity; Father-deceased at age 39 from MI

Lifestyle factors: Single mom; 3 kids age 8-14; CNA; night shift; frequently skips meals and rarely cooks; dinner often at mom's house; snacks overnight at work on snacks she takes with her; no high calorie or alcoholic beverages.

Which dietary pattern would be the most likely to provide health improvement, meaningful weight loss and match some lifestyle factors

- A. Ketogenic diet
- B. Mediterranean Diet
- C. Intermittent Fasting
- D. DASH (Dietary Approach to Stop Hypertension) Diet

Case #2



35 y.o female presents for weight management.

Key factors: struggled w/weight since early 20's; tried many different diet/exercise interventions; max 15-20 pounds lost w/rapid regain; stops interventions due to lack of progress, difficult to sustain changes and hunger

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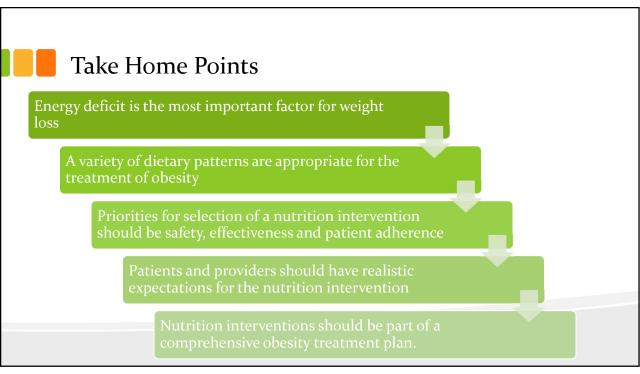
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What expectation can be set with this patient to combat weight regain

- A. Simplified self monitoring strategies
- B. Continued visits for more than 2 years after meeting weight loss goal
- C. Ensure nutrition intervention is based on patient food preferences
- D. All of the above

Case #2





References

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