Weight Loss Maintenance

Help Veterans Put Lapses Into Perspective

- Frame as a temporary dip in the trend line.
- Avoid self recrimination or other negative emotional reactions.
- · Avoid giving up because of a brief lapse.
- Engage in realistic positive thinking.
- Immediately resume appropriate weight control habits.

Ten Relapse Prevention Strategies

- · Continued counseling contact
- Social support
- Contingency plans for high-risk situations
- Self-monitoring
- Environmental cues for weight control behaviors
- Achievable daily goals
- · Self-reinforcement system
- Alternative sources of pleasure besides food
- Positive thinking
- "Alarm" system for behaviors and weight

Strategies For Long-Term Weight Loss Maintenance*

- Use of both dietary restriction and physical activity
- Limiting calorie and fat intake and limiting portion sizes
- Use of regular (daily) physical activity, average of 60-90 min/day
- · Consuming breakfast daily
- Self-monitoring of weight, at least weekly
- Maintaining dietary consistency over the weekends and holidays

Patient handouts for maintenance available on the MOVE! website

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for

Dietitians

Developed by:

VA National Center for Health Promotion and Disease Prevention a program office of VHA Patient Care Services

and

VA Employee Education System

MOVE! Website vaww.move.med.va.gov







^{*}From participants in the National Weight Control Registry

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Level 5 - Bariatric Surgery - 3

Supplementation

- Daily multivitamin/mineral supplement at a minimum
- Other supplements as indicated based on procedure and/or micronutrient evaluation
 - Calcium (take separately from iron)
 - Iron
 - Vitamin B12 (oral, nasal spray, injection)
 - Folic acid
 - Thiamin
 - Fat-soluble vitamins (A, D, E, K)
 - Electrolytes
 - Protein (powder)

Problem	Potential Solution
Nausea	eat smaller amounts
	slow down pace of eating
	introduce new foods one at a time
Vomiting	eat smaller amounts chew food thoroughly slow down pace of eating introduce new foods one at a time consider evaluation for strictures and stenosis if vomiting is particularly severe or develops 6 months or later after surgery
Intolerance for solid foods	evaluate for stricture or stenosis
Dumping syndrome	limit foods with added sugar and fats eliminate known trigger foods consume liquids separately from meals, wait at least 30 minutes before or after a meal before drinking liquids
Dehydration	sip fluids constantly throughout the day IV rehydration if necessary
Gallstone formation	prevented by removal of gallbladder before or at the time of surgery if gallbladder intact then use a solubilizing agent for 6 months post-surgery surgery for symptomatic cases
Lactose-intolerance	use lactase enzyme supplements substitute Lactaid or soy-based products for regular dairy products

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Level 5 - Bariatric Surgery - 2

Post-Operative Patient General Guidance

- Expected Wt Loss ≈30-35% of body weight, peak loss 12-18 mos
- · General wound care unless otherwise directed
- Psychologic anticipate changes in self-image and relationships
- Physical Activity begin slow and gradually increase
- Lifelong surveillance and care required.

Post-Operative Nutrition Guidance

- Nutrition diet slowly advanced from clear liquids to solids over 6-8 weeks
 - Stage 1: water and clear liquids
 - Stage 2: clear and full liquids
 - Stage 3: pureed foods
 - Stage 4: soft diet
- · Measure portions.
- Chew solid foods thoroughly (25 chews/bite), take small bites, and slow down the pace of eating (30 minutes to eat).
- Avoid constant nibbling.
- Avoid drinking liquids just before, during, or just after meals (30 minute spacing). Sip; do not gulp fluids.
- Avoid foods or liquids with added sugar or fat or those high in sugar or fat.
- Avoid carbonated beverages, particularly within the first six weeks after surgery.
- Avoid alcohol for at least 6 months after surgery.
- Lactaid[®] or calcium fortified soy milk can be substituted if cow's milk is not well tolerated.
- Remove all fat and skin before cooking poultry.
- Trim all visible fat from veal, beef, lamb, and pork before cooking; use lean cuts.
- Bake, broil, roast, grill, boil, stew, poach, or microwave instead of frying.
- Use a rack when baking, broiling, or roasting to allow fat to drain.
- · Cook with little or no added fat.

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Program Overview - 1

General Characteristics Of MOVE!

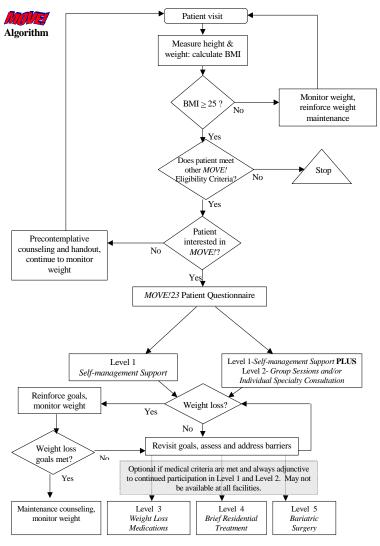
- Emphasis on health and well-being, not appearance
- Lifetime/lifestyle focus
- · Population-based
- Evidence-based
- · Tiered treatment
- Multidisciplinary content: behavior, nutrition, physical activity
- Individually tailored with patient-determined intensity of treatment
- Integration within primary care and existing resources
- Standard program tools and materials available

Program Flow--See Algorithm On Page 4

- 1. Screen for overweight/obesity at least once every 2 years.
- 2. Determine benefit from or eligibility for weight management.
- 3. Risk educate overweight or obese patients who would benefit.
- 4. Offer MOVE! participation.
- 5. Enroll into MOVE! using the MOVE!23 Patient Questionnaire.
- 6. Determine intensity of treatment with veteran.
- Support self-management; provide additional treatment as requested/needed.
- 8. Monitor progress, address barriers, and support maintenance.

MOVE! Program Levels

- Level 1 Self-management Support
- Level 2 Group Sessions and/or Individual Specialty Consultation
- Level 3 Weight Loss Medications
- Level 4 Brief Residential Treatment
- Level 5 Bariatric Surgery



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Level 4 - Brief Residential Treatment

Currently, this service is limited to very few VHA facilities and may not be available for all qualified patients at this time. Consult the *MOVE!* website for the latest information on availability.

Level 5 - Bariatric Surgery - 1

Currently, this service is limited to few VHA facilities and may not be available for all qualified patients at this time. Consult the *MOVE!* website for the latest information on availability.

Candidates For Bariatric Surgery

- 1. BMI ≥ 40; (BMI ≥ 35 with obesity-associated conditions considered case-by-case), AND
- Participation in MOVE! Levels 1-2 or a similar multidisciplinary, behaviorally based weight management program for at least three months, AND
- Formal psychological evaluation that finds patient mentally and emotionally stable, likely to be able to control eating related impulses and comply with a restricted diet post-surgery, and likely to maintain the frequent and long term follow up necessary after this procedure; AND
- Medical evaluation that finds patient has no medical contraindications to surgery.

Complications

- Up to 2% risk of death
- 20% risk of nonfatal complications: surgical complications, gallstones, ulcers, stenosis, nausea/vomiting, dumping syndrome
- Other side effects [loss of hair, body odors, large amounts of excess skin]

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Level 3 - Weight Loss Medications

Medications For Weight Loss And Maintenance

- Require a non-formulary drug request
- Should always be used in conjunction with other weight management behaviors (reduced calorie diet and/or increases in physical activity) as part of Level 1 or Level 2
- Result in an average additional loss of 5-11 lbs over a 12 month period compared to a behavioral program alone

Orlistat (Xenical®)

- Blocks fat absorption by the gut
- Dosed as 120 mg capsules t.i.d. with meals
- Side effects:

fatty/oily stools
fecal urgency and incontinence
dyspepsia

fatty/oily stools
oily spotting
abdominal pain
bloating

Potential for fat-soluble vitamin deficiencies

Criteria for Initial 30-day supply:

- \square BMI \geq 30, or \geq 27 with obesity-associated condition(s)
- ☐ Enrolled in MOVE! Level 1 and/or 2 or similar program
- ☐ No allergy to orlistat, malapsorption syndromes, or cholestasis
- ☐ Demonstrated ability to comply with low-fat diet
- ☐ Taking a multivitamin/mineral supplement with Vitamins A, D, E, K

Sibutramine (Meridia[®])

- Suppresses appetite and induces a feeling of fullness
- Starting dose is 10 mg g.d. Maximum dose is 15 mg g.d.
- Side effects:

increase in heart rate insomnia constipation increase in blood pressure dry mouth nausea

Criteria for initial 30-day supply:

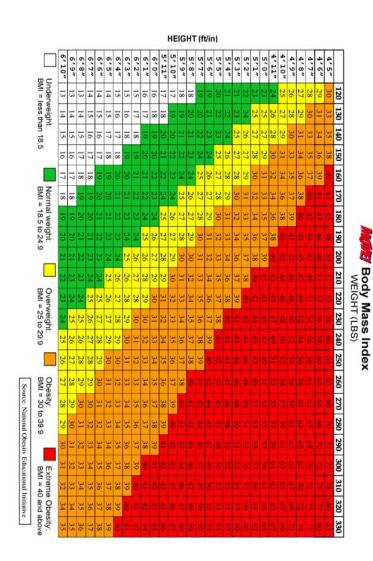
- \square BMI \geq 30, or \geq 27 with obesity-associated condition(s)
- ☐ Enrolled in MOVE! Level 1 and/or 2 or similar program
- ☐ No allergy or contraindications to sibutramine
 - Pseudoephedrine or MAOI, SSRI, SNRI, triptan or other serotonin affecting drug use within 2 weeks
 - Anorexia or bulimia
 - Uncontrolled hypertension (BP >145/90 mmHg)
 - History of CAD, CHF, arrhythmia, stroke, narrow angle glaucoma
- ☐ Enrolled in the VA sibutramine safety registry by pharmacist

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Screening - 1 Use BMI To Screen For Overweight/Obesity (every 2 yrs) Measure height without shoes Measure weight • Calculate BMI (in CPRS or use chart on page 6) BMI= weight (in kilograms) height (meters)² Classify Veteran By BMI Category Classification BMI Underweight < 18.5 18.5-24.9 Normal Weight 25-29.9 Overweight > 30 Obese Assess Benefit From Weight Management Participation See MOVE! Eligibility Screening Chart (page 7) Discuss Risks Of Overweight/obesity With Those Eligible Idiopathic intracranial Pulmonary disease hypertension Stroke Cataracts Nonalcoholic fatty liver Coronary heart disease disease Diabetes Dyslipidemia Hypertension Gall bladder disease Severe pancreatitis Cancer Gynecologic abnormalities Osteoarthritis **Phlebitis** Skin Gout

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Level 2 - Group Sessions and Individual Specialty Consultation

Provide Level 2 services at any time you or the veteran feels it would be beneficial.

Group Sessions

General format:

- Individual weigh-in
- 1-2 topic discussions (nutrition, physical activity, behavior)
- General group discussion, problem-solving, and support

Engaging Patients in Discussion:

- · Write major points on a whiteboard
- · Ask veterans to read parts of handout out loud
- Encourage questions
- · Solicit thoughts, feelings, opinions
- Ask how topic applies to them personally
- Ask veterans to complete specific written or verbal exercises
- Ask veterans to complete some "homework" for the next session
- Ask veterans to bring information on a selected topic for the next session
- Ask veterans how they personally plan to implement the information or suggestions discussed

Sample group modules are available on the MOVE! website.

Individual Specialty Consultation

Use this option when veterans require additional evaluation, treatment, or guidance beyond that available through Level 1-Self-management Support or Level 2-Group Session participation.

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Level 1 - Self-management Support - 2

Patient Handouts (available on the MOVE! website)

- 10 standard handouts (S01-S10)
- Nutrition log
- Physical activity log
- Other nutrition, physical activity, and behavior handouts
- Select additional handouts based on patient barriers, patient request, or relevant goals for the week

Arrange Follow-up

- · Within 1 week of initial enrollment
- Every 2-4 weeks thereafter, adjust intervals as needed
- Use telephone follow-up when possible

Suggested Format For Telephone Follow-up

- Call patient (or they call you)
- Reestablish rapport
- Assess progress on weight and established goals
- If appropriate, reevaluate importance, and confidence
- Discuss barriers and assist with problem-solving
- Provide positive reinforcement
- Provide information as needed

 Agree on new (or same) goals.
- Agree on new (or same) goals
- Arrange next follow-up contact

Connect Patient With VA And Community Resources

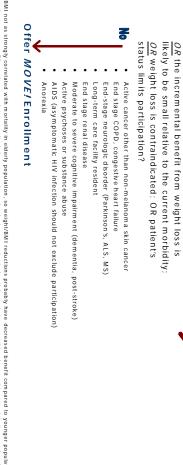
- MOVE! Program materials
- Pedometers
- Local parks and recreation facilities, community programs, low-cost, or free health department or cooperative extension services
- Church and community sponsored programs, facilities, or events

MOVE! Eligibility Screening Chart

Not indicated,

Age <u>></u>70 ?

nlikely to benefit or likely to be



Optional enrollment

Health Behavior Change Counseling - 1

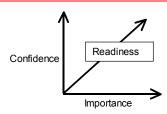
Patients with BMI ≥ 25 who would benefit from weight management should be offered *MOVE!* participation.

Assess Readiness And Interest

"Mr. Jones, your body mass index is 33; this is considered unhealthy. Your weight is probably contributing to your diabetes and it may lead to future health problems like sleep apnea or high blood pressure. I'm concerned about your health...have you thought about trying to lose some weight?"

Stages Of Readiness To Change

Factors That Determine Readiness



Effective Counseling

- Is supportive, empathetic, and patient-centered
- Targets stage of readiness to change
- Uses open-ended questions and affirmations
- Uses reflective listening, summarizing, and elicits self-motivational statements

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Level 1 - Self-management Support - 1

Foundation For All Levels Of MOVE!

- Emphasizes patient's central role in treatment
- Uses goal-setting, action planning, problem-solving, and follow-up
- Connects patients to internal and external resources

MOVE!23 Patient Questionnaire And Reports

- Assesses importance, confidence, and readiness
- Identifies "red flags" for further medical evaluation
- Identifies problem nutrition & physical activity behaviors
- Offers problem-solving tips
- •Points to specific patient handouts, tailoring advice

Using MOVE!23

- Patient access via:
- VA intranet: vaww.move.med.va.gov
- Internet: www.move.med.va.gov
- MyHealtheVet: www.myhealth.va.gov
- Link from CPRS
- •Review patient report with patient and print copy.
- •Use staff report to guide discussion.
- Assist patient with setting between 1-3 short-term behavior, nutrition, or physical activity goals. Goals should be SMART:

SPECIFIC: "I will take a 30 minute walk after dinner each night

for the next week."

MEASURABLE: "I will eat one more fruit and vegetable each day

this week."

ATTAINABLE: "I will use the stairs instead of the elevator

whenever I'm going up 2 flights or less."

RELEVANT: "I will drink diet instead of regular whenever I drink

soda.'

TIME-BASED: "Within 7 days, I will find out more information

about local park trails for walking."

Physical Activity - 3

Measuring Intensity

Talk Test:

Light intensity: able to sing

Moderate intensity: able to carry on a conversation Vigorous intensity: unable to carry on a conversation

Target Heart Rate:

Moderate intensity: 50-70% of maximum heart rate Vigorous intensity: 70-85% of maximum heart rate Maximum heart rate (bpm) = 220 – Age

Self-perceived Exertion:

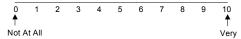
	The Borg Catego	ry Rating Scale
east Eff	ort	
6		
7	very, very light	
8		
9	very light	
10		
11	fairly light	*********
12		Aerobic Training Zone
13	somewhat hard	************
14		
15	hard	*********
16		Strength Training Zone
17	very hard	*********
18		
19	very, very hard	
20		
Maximun	n Effort	

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Health Behavior Change Counseling - 2

Pre-contemplation Counseling

- Explore Importance and Confidence
 - Ask patient to rate on a scale of 0-10, how personally important it is for him/her to make changes to manage weight.
 - Ask patient to rate on a scale of 0-10, how confident he/she is in his/her ability to make changes to manage weight.



Sample Dialog:

Staff: Now, I'd like to understand more about how confident you are that you can make changes in your eating and physical activity to manage your weight. On a scale of 0-10 with 0 meaning not confident at all and 10 meaning very confident, you gave yourself a "2". Why did you give yourself a "2" instead of a "0" or "1"?

Patient: Well, I was able to lose a little bit of weight in the past by taking regular walks after dinner; so, I know this can help, but it was hard to keep up.

Staff: So you know from past success that you CAN do this. What would it take to give yourself a "4" or "5" in confidence?

<u>Patient:</u> I would need to find a way to keep walking; also, I'd have to learn more about what diet I should try and what foods I should or shouldn't eat.

More Tips

- Exchange information (elicit knowledge, provide information, elicit reaction).
- Give good news, support self-efficacy.
- Explore past successes.
- Convey health importance and reinforce relevance.
- Explore the pros and cons of change.
- Develop discrepancy.
- Avoid argument and roll with resistance.

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Provide ongoing assistance with barriers Express confidence in ability to maintain the change	reinforce, plan for contingencies	At risk for relapse	(successfully maintained new behaviors for at least 6 months)
Provide frequent positive affirmation			Maintenance
Provide frequent positive affirmation Provide ongoing assistance with barriers Express confidence in ability to maintain the change	Praise and reinforce, plan for contingencies	Some obstacles persist Confidence may still be low At risk for relapse	Action (has begun changes in diet and physical activity behaviors)
Provide information and discuss options Provide assistance with selected actions Express confidence in patient Affirm positive statements Reinforce partnership and willingness to help	Strengthen commitment, plan specific actions	Confidence may still be low Unsure of specific actions	Preparation (getting ready to change diet and physical activity behaviors to lose weight)
Express empathy Develop discrepancy Acknowledge ambivalence Listen reflectively Examine pros and cons of change, summarize Provide information if needed Affirm positive statements Reinforce partnership and willingness to help	Explore ambivalence and shift towards making a decision to change	Low confidence Procrastination Low social or environmental support Competing demands	Contemplation (thinking about changing diet and physical activity behaviors to lose weight)
Express empathy Develop discrepancy Listen reflectively Examine the pros and cons of change, summarize Provide information if needed Acknowledge decision Offer help when ready	Advise and encourage	Not important to patient Low confidence Denial Defensiveness Lack of awareness	Pre-Contemplation (not ready to change diet and physical activity behaviors to lose weight)
Techniques to Use	Goal of Counseling	Barriers	Stage of Change

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Physical Activity - 2

Physical Activity Recommendations For Health Benefits

Moderate activity for 30 minutes or more on 5 or more days per week

Vigorous activity for 20 minutes or more on 3 or more days per week

Physical Activity For Weight Loss

Aerobic activities: longer duration is better than harder intensity Strength activities: 2-3 times per week, examples:

- •own body weight for resistance (sit-ups, push-ups)
- •elastic bands, dumbbells, or household objects (water bottles)
- •specialized machines at gym or fitness club

Flexibility activities: end aerobic and strength activities with 10-20 minutes of gentle stretching

Pedometer Reference

1 mile \approx 2,000 steps 10 minutes moderately-paced walking \approx 1,200 steps Leisurely cycling \approx 100 steps/minute Raking yard 30 minutes \approx 1,000 steps

Components Of An Exercise Prescription - FITT

Frequency Intensity Time (duration) Types of Activities

Physical activity patient handouts are available on the MOVE! website.

Definition of Vigorous Exercise: Exercise intense enough to represent a substantial cardiorespiratory challenge (hard breathing, fast heat rate, large sweating)

	۲ ۵	
No .		Acute infection, illness, or injury. For example: acute low back pain, active retinal hemorrhage, shortness of breath at rest, undiagnosed chest pains, symptomatic hemias. Uncontrolled or unstable termionic conditions. For example: hyper or hypoglycemia, heart failure exacerbation, COPD exacerbat meumatoid arthritis flare, severe anemia, symptomatic hyper or hypothyroidism.
₹ 2. Known	Yes	—▶Refer for medical evaluation prior to beginning moderate or vigorous physical activity
2		Heart Disease: heart attack (MI), CABG/open heart surgery or angioplasty, angina, valvular heart disease, congestive heart
or Pulmonary Disease?		raiure, armythmias, pacemaker or implantable deticillators Peripheral Artery Disease: bypass surgery in lower extremities, claudication, ischemic foot ulcers or amputation due to ischemia
No O		Cerebrovascular Disease: stroke, transient ischemic attack (TIA), carotid artery surgery Pulmonary Disease: COPD or emphysema, asthma, shortness of breath
•		
3. Diabetes, HTN	Yes	► Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity
or ≥ 2 Cardiac Risk Factors?		Smoking, high cholesterol or taking cholesterol lowering medication or special diet, family history of early heart disease (age < 5
Zo		
	Yes	
keletal		■ Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity or s
or Joint Condition?		→ Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity or and flexibility training
⊢N _o		→ Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity or sand flexibility training Chronic low back pain, symptomatic arthrits, amputation, spinal cord injury, osteoporosis
		→ Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity or s and flexibility training Chronic low back pain, symptomatic arthritis, ampulation, spinal cord injury, osteoporosis
5. Man > 45 y or Woman > 55 y?	Yes	► Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity or strength and flexibility training Chronic low back pain, symptomatic arthrits, amputation, spinal cord injury, osteoporosis Moderate aerobic, strength and flexibility training activity okay; refer for medical evaluation prior vigorous aerobic activity
Known ardiovascular r Pulmonary isease? Diabetes, HTN or ≥ 2 Cardiac Risk Factors? Chimiting Limiting Lusculoskeletal r Joint ondition?	Yes Yes	→ Refer for medical evaluation prior to beginning moderate or vigorous physical activity Heart Disease: heart attack (MI), CABG/open heart surgery or angioplasty, angina, valvular heart disease, con Peripheral Artery Disease: hyposas surgery in lower extremities, claudication, ischemic foot ulcers or amputation Cerebrovascular Disease: stroke, transient ischemic attack (TIA), carotid artery surgery Pulmonary Disease: Stroke, transient ischemic attack (TIA), carotid artery surgery Pulmonary Disease: COPD or emphysema, asthma, shortness of breath → Moderate aerobic activity okay, refer for medical evaluation prior to vigorous activity Smoking, high cholesterol or taking cholesterol lowering medication or special diet, family history of early heart.

Physical Activity Decision Aid

Nutrition Basics - 1

Calculating Energy Needs

	Energy Needs (kcal/kg)		
	Sedentary	Moderate	Active
Overweight	20-25	30	35
Normal	30	35	40
Underweight	30	40	45-50

Formulas

W = weight in kg; H = height in cm; A = age in years

Activity Level	Physical Activity Factor (PAF)	
	Female	Male
Very Light	1.3	1.3
Light	1.5	1.6
Moderate	1.6	1.7
Heavy	1.9	2.1

Harris-Benedict Energy Equation (HBEE)

Male: $kcal/day = [66.5 + (13.7 \times W) + (5.0 \times H) - (6.8 \times A)] \times PAF$ Female: $\frac{1}{4.7} = \frac{1}{4.7} = \frac{1}{4.7$

Mifflin-St.Jeor

Male: $kcal/day = [(10 \times W) + (6.25 \times H) - (5 \times A) + 5] \times PAF$ Female: $kcal/day = [(10 \times W) + (6.25 \times H) - (5 \times A) - 161] \times PAF$

Ireton-Jones Energy Equation (IJEE) kcal/day = 629 - 11 x A + 25 x W - 609 x O (O = 1 if BMI >27 otherwise O = 0)

Weight Loss Per Week	Approximate Weekly Calorie Deficit	Approximate Daily Calorie Dalicit
1/alb	1750	250
1lb	3500	500

Nutrition Basics - 2

Risks Of Dietary Change And/Or Weight Loss

- Diuresis
- Dehydration
- Aggravation of heart disease (arrhythmias, heart failure)
- · Lowering of blood pressure
- Hypokalemia
- Hyperuricemia
- Dyslipidemia (may decrease HDL-C or increase total chol)
- Gallbladder disease
- Hepatic inflammation, transient worsening of fatty liver
- Hypoglycemia
- Constipation or diarrhea
- Depression

Address Problem Eating Behaviors

- Not eating breakfast
- Skipping meals
- Constant nibbling, grazing, or snacking
- Eating while watching TV, working on the computer, reading, driving, or on the go
- High intake of calorie-dense, micronutrient-poor foods
- Large portions
- Frequent consumption of meals/snacks from restaurants, fast food places, vending machines, convenience stores
- Liquid calories (sugar-sweetened beverages, alcohol)
- Overeating at meals
- Binge eating
- Eating too fast
- Splurging at holidays, parties, or other gatherings
- Eating based on emotions/stress

MOVE! handouts are available for some of these issues.

Nutrition Basics - 3

Nutrition Education Topics

- Description of macronutrients and micronutrients
- Demonstration of creating balanced (carbohydrate, protein, and fat) meals and snacks for sustained energy
- Variety among and within food groups
- Portion control/moderation
- Focus on volume foods higher in water, fiber and micronutrients that are lower in fat and calories
- Hydration
- How to listen to the body hunger, satiety
- How to deal with cravings
- How to read food labels
- How to keep a food journal
- . How to prepare food with less fat, sugar, and salt
- Meal planning
- Shopping tips
- Food budgeting
- Planning ahead, i.e., normal daily eating as well as special events
- Tips for eating away from home
- Energy for physical activity
- Health literacy how to evaluate nutrition information in the media and from other sources

Dietary Composition

15-20% protein 20-30% fat 50-60% carbohydrate

MOVE! philosophy:

One size does not fit all with respect to dietary change.

MOVE! Website: vaww.move.med.va.gov