The Management of Adult Overweight and Obesity



Algorithm Module

- Adults enrolled in the VA/DoD health systems

 Obtain height and weight
 Calculate BMI to screen for overweight and obesity at medical visits

 Is the patient's BMI ≥25 kg/m²?²

 No Yes

 5
- activity to maintain a healthy weight^b
 Consider screening for overweight- and obesity-associated conditions (Sidebar 1) and obesogenic medications (see Sidebar 2)

Offer guidance about healthy diet and physical

- Offer counseling on nutrition, physical activity, and behavior change

 Addition participants and draws at subsequents.
- Ask for permission to readdress at subsequent visits. (see Sidebar 4)
- Has patient achieved weight management goals?
- Continue a CLI and any additional therapy for weight maintenance
- Reassess periodically including for pharmacotherapy and follow-up for long-term post-bariatric procedure management

With permission, assess patients (Sidebar 3) and screen for overweight- and obesity-associated conditions (see Sidebar 1) and obesogenic medications (see Sidebar 2)

Is patient ready to engage with a weight management program?

Offer a CLI (Sidebar 4)

- Continue to monitor and reassess the patient (see Standards of Care in the full CPG)
- Consider pharmacotherapy and/or bariatric procedure concurrently with CLI (Sidebar 6)
- ^a For patients of Asian descent: is BMI ≥23 kg/m²? (Winter, et al. *Am. J. Clin. Nutr.* 2014; 99(4):875-890); For patients >65 years old: consider individualized assessment (WHO Tech. Rep. Ser. 2000;894:i-xii, 1-253. PMID: 11234459)
- b See, for example, 2015-2020 Dietary Guidelines for Americans, 8th edition, available at: https://health.gov/paguidelines/2015/ and Physical Guidelines for American, 2nd Edition, available at: https://health.gov/paguidelines/second-edition/

Sidebar 1: Common Obesity-Associated Conditions

• HTN	OA/degenerative joint disease
T2DM and prediabetes	NAFLD
Dyslipidemia	• GERD
Metabolic syndrome ^a	Cancer ^b

^a See National Cholesterol Education Program definition of metabolic syndrome, available at: https://www.nhlbi.nih.gov/files/docs/guidelines/atglance.pdf

OSA

^b Source: Bhaskaran et al. JAMA, 2014, 384(9945):775-765. PMID: 29340665

Sidebar 2: Select Medications and their Potential Effects on Weight ^a			
Medications with Medication Potential for Classes Weight Gain		Medications that may be Weight Neutral or have Potential for Weight Loss	
Alpha- blockers	Terazosin	For BPH (e.g., doxazosin, alfuzosin, tamsulosin)	
Anti depressants	 Mirtazapine SSRIs (e.g., paroxetine, sertraline, citalopram^b, escitalopram^b, fluoxetine^b) MAOIs (e.g., phenelzine) TCAs (e.g., amitriptyline, clomipramine, doxepin, imipramine, nortriptyline, protriptyline^b) 	Bupropion Desvenlafaxine Venlafaxine	
Antiepileptic drugs or mood stabilizing agents	 Gabapentin Pregabalin Carbamazepine Divalproex Lithium Valproic acid Vigabatrin 	TopiramateLamotrigineZonisamide	
Anti psychotics	 Quetiapine Clozapine Olanzapine Risperidone Thioridazine	AripiprazoleHaloperidolZiprasidone	
Gluco corticoids	PrednisoneHydrocortisoneMethyl-prednisolone	Alternatives for rheumatologic disorders: NSAIDs Biologics/DMARDs Nontraditional therapies	

idebar 2: 🤄	Select Medicati	ons and the	ir Potential	Effect	s on We	eight ^a (cont	.)

	Medication Classes	Medications with Potential for Weight Gain	Medications that may be Weight Neutral or have Potential for Weight Loss
e,	Hormonal agents	Progestins (e.g., medroxyprogesterone or megestrol acetate)	For contraception, consider alternative methods (e.g., copper IUD)
	Anti hyperglycemic agents	 Insulin Sulfonylureas (e.g., chlorpropamide, glimepiride, glipizide, glyburide) Meglitinides (e.g., nateglinide, repaglinide) TZDs (e.g., pioglitazone, rosiglitazone) 	GLP-1 agonists (e.g., semaglutide, liraglutide, exenatide, dulaglutide, lixisenatide) GGLT2 inhibitors (e.g., empagliflozin, canagliflozin, dapagliflozin, ertugliflozin) Metformin Pramlintide Alpha-glucosidase inhibitors (e.g., acarbose, miglitol) DPP-4 inhibitors (e.g., alogliptin, linagliptin, saxagliptin, sitagliptin)
	Beta-blockers	Metoprolol Atenolol Propranolol	Carvedilol Nebivolol Note: Other alternative classes of antihypertensive medications may be an option depending on the indication (e.g., angina, heart failure, HTN, migraine). Consider calcium channel blockers, ACEIs, ARBs, and thiazide or loop diuretics, as indicated.
	Anti histamines	Cetirizine Cyproheptadine	Depending on symptoms, consider ipratropium nasal spray, decongestants, inhalers, and/or nonpharmacologic measures (e.g., nasal irrigation)
a The information provided in the table is not to be considered all-inclusive a compilation of information from the medical literature (systematic revieus) meta-analyses, subgroup analysis of clinical trials, cohort studies, revieus			edical literature (systematic reviews,

- a compilation of information from the medical literature (systematic reviews, meta-analyses, subgroup analysis of clinical trials, cohort studies, reviews), some of which may have included differing comparators with variable results based on length of follow-up, baseline weight, patient comorbidities, etc.; medical and pharmacy resources; and select product information (adverse events, post-marketing and case reports).
- b Weight gain and weight loss have been reported.

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Sidebar 3: Assessment of Patients with Overweight or Obesity

- Assess for presence of obesogenic medications (see **Sidebar 2**)
- Consider assessing waist circumference for patients with a BMI of 25 29.9 kg/m² (see Standards of Care in the full CPG)
- Assess for common overweight and obesity-associated conditions (see Sidebar 1) Assess for secondary causes of overweight or obesity if physical exam and history warrant, including but not limited to: depression, binge eating disorder.
- hypothyroidism, hypercortisolism (Cushing's disease or syndrome), traumatic brain injury, brain tumor, cranial irradiation, hypogonadism, menopause, acromegaly
- Assess the potential benefit of starting pharmacotherapy and/or bariatric procedure
- Assess conditions for which weight loss may not be beneficial (e.g., sarcopenia, active carcinoma, some eating disorders)
- Sidebar 4: Principles and Core Strategies of Motivational Interviewing
- Respect autonomy and resist directing Understand the patient's motivations
- Listen with empathy Empower the patient by building confidence
- Ask Open-ended questions to evoke change talk and provide Affirmations.
- Reflections, and Summaries (OARS) For more information refer to the guide, "Moving Veterans to MOVE!"a
- Available at: https://www.move.va.gov/

Sidebar 5: Comprehensive Lifestyle Intervention

- Defined as an intervention that combines behavioral, dietary, and physical activity components together (see Recommendations 1, 6, 7, and Standards of Care in the full CPG)
- The intervention can be delivered in an individual or group setting, in person, by telephone, or through synchronous video
- (see Recommendations 1 & 4 in the full CPG) Though there is insufficient evidence to recommend a specific number of
- sessions of comprehensive lifestyle intervention, most CLIs offer at least 12 intervention sessions in the first 12 months of intervention (see Recommendation 2 in the full CPG)

Abbreviations: ARB: angiotensin receptor blocker; BMI: body mass index; BPH: benign prostate hyperplasia; CIV: Schedule IV controlled substance; CLI: comprehensive lifestyle intervention; CPG: clinical practice quideline; CrCl: creatinine clearance; DoD: Department of Defense; ER: extended-release; ESRD: end stage renal disease; FDA: Food and Drug Administration; GERD: gastroesophageal reflux disease; GLP-1: glucagon-like peptide-1 receptor; HTN: hypertension; IV: intravenous; kg: kilograms; LFT: liver function test; m: meters; MAOI: monoamine oxidase inhibitor; MEN2: multiple endocrine neoplasia type 2; mg: milligram; mL: milliliter; NAFLD: non-alcoholic fatty liver disease; NSAID: nonsteroidal anti-inflammatory drug;

TZD: thiazolidinediones; VA: Department of Veterans Affairs; XR: extended-release

OA: osteoarthritis; OSA: obstructive sleep apnea; OTC: over-the-counter; REMS: Risk Evaluation

and Mitigation Strategy; SGLT2: sodium-glucose cotransporter 2; T2DM: type 2 diabetes mellitus:

Sidebar 6: Assessment for Pharmacotherapy and/or Bariatric Procedures

In addition to CLIs, consider pharmacotherapy and/or bariatric procedures in the following scenarios: Consider for long-term pharmacotherapy (see Appendix H in the full CPG):

Any patient with a BMI ≥30 kg/m²

- Patients with a BMI ≥27 kg/m² and an obesity-related comorbidity (see Table H-1 in full CPG) Individualize choice of medication to patient-specific comorbidities, dosing,
- administration, and potential for side effects
- Consider for bariatric procedures (see Appendix I in the full CPG): Patients with a BMI ≥30 kg/m² and T2DM
- Patients with a BMI ≥35 kg/m² and an obesity-related comorbidity
- Any patient with a BMI ≥40 kg/m²

Prescribing Information for Chronic Weight Management Medications^a

Phentermine/Topiramate ER (Qsymia®) C-IV [3.75 mg/23 mg; 7.5 mg/46 mg; 11.25 mg/69 mg: 15 mg/92 mg capsules] Dosing: 3.75 mg/23 mg daily for 14 days; Contraindications: Pregnancy;

increase to 7.5 mg/46 mg for 12 weeks REMS: glaucoma: MAOI use during or within 14 days; hyperthyroidism Goal: 3% weight loss within 12 weeks. If Warnings: Increased heart ratemood unsuccessful, increase to 11.25 mg/69 & sleep disorders: suicidal behavior/ mg for 14 days; increase to 15 mg/92 mg ideation: increased creatinine: daily for 12 weeks. If 5% baseline weight metabolic acidosis; cognitive loss is not achieved, discontinue by slow impairment; drug abuse; nephrolithiasis; hypokalemia Renal/Hepatic Impairment (CrCl <50 mL/min or Child-Pugh 7-9)

 Taper slowly to discontinue (1 dose every other day for ≥1 week) to prevent seizure. Discontinue if glaucoma or myopia develop.

pregnancy; uncontrolled hypertension;

seizure disorder: bulimia & anorexia

Naltrexone/Bupropion ER (Contrave®) [8 mg/90 mg tablet] Dosing: Week 1: 1 AM tablet: Contraindications: Opioid use:

Week 2: 1 AM tablet, 1 PM tablet; Week 3: 2 AM tablets. 1 PM tablet: Weeks 4-12: 2 AM tablets, 2 PM

Max dose: 7.5 mg/46 mg daily

Goal: 5% weight loss within 12 weeks. Discontinue if unsuccessful. Renal Impairment (moderate/severe):

the morning.

Max dose: 1 tablet twice daily Not recommended for use in patients with Hepatic Impairment: Max dose: 1 tablet in

nervosa; abrupt stop of alcohol; acute opioid withdrawal: MAOI's Warnings: Suicidal thinking/behavior [Boxed Warning]; seizures; increased heart rate & blood pressure: neuropsychiatric symptoms: hepatotoxicity; may precipitate withdrawal if receiving opioids; adjust hypoglycemic medications to avoid hypoglycemia

Prescribing Information for Chronic Weight Management Medications^a (cont.)

Orlistat (Xenical®, Alli®) [120 mg; 60 mg (OTC) capsules] Dosina: Contraindications: Pregnancy;

· Xenical®: 120 mg 3 times daily with a fat containing meal (up to 1 hour after

- meal); omit dose if meal is occasionally missed or contains no fat Alli® OTC labeling: 60 mg 3 times daily
- with a fat containing meal Renal/Hepatic Impairment: No adjustments provided by manufacturer

Dosing: Initiate 0.6 mg daily

for 1 week; increase by 0.6 mg

chronic malabsorption syndrome;

cholestasis Warnings: Hepatotoxicity: cholelithiasis: increased urine oxa and nephrolithiasis: decreased absorption of fat-soluble vitamins cyclosporine, thyroid hormone, ar

anticonvulsants; adjust hypoglyce drugs to avoid hypoglycemia

Liraqlutide (Saxenda®) [6 mg/mL, 3mL injection for subcutaneous use]

Contraindications: Pregnancy; Personal or family history of medullary thyroid carcinoma MEN2 [Boxed Warning]

per week to target dose of Warnings: Thyroid C-cell tumors [Boxed 3 mg; slow titration may Warning]; gallbladder disease; pancreatitis improve tolerability (discontinue); increased heart rate; renal Goal: 4% weight loss within impairment: suicidal behavior/ideation: to reduce 16 weeks. Discontinue if the risk for hypoglycemia, decrease concomitant secretagogue (i.e., sulfonylureas) dose (e.g., by Renal Impairment: Use with 50%) or insulin

^a In February 2020, the FDA requested the withdrawal of the weight-loss drug lorcaserin (Belvig, Belvig XR) from the U.S. market citing potential risk of cancer outweighs the benefits of use.

Classification of Overweight and Obesity by BMI^a

 Underweight: <18.5 Normal: 18.5 – 24.9

Obese II: 35.0 - 39.9

 Overweight: 25.0 – 29.9 Obese I: 30.0 – 34.9

unsuccessful.

- Obese III: ≥40.0
- Sex-specific cutoffs for increased waist circumference:
- Men waist circumference >40 inches (102 centimeters) Women waist circumference >35 inches (88 centimeters)
- Disease risk for obesity-associated chronic health conditions is directly correlated with increasing BMI kg/m² and waist circumference

Continue 24 mo. mos. mos. mos. mos. mos. Annually

Xa

+/-

+/-

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Xa

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Xa

Post-Surgical Schedule for Clinical / Biochemical Monitoring

		operat
	Complete blood count	Х
alate , nd emic	LFTs	Х
	Glucose	Х
	Creatinine	Х
	Electrolytes	Х
	Iron/ferritin	Х
	Vitamin B12	Х
or	Folate	Х
	Calcium	Х
ICE	Intact PTH	Х
	25-D	Х

_	Iron/ferritin	Х
	Vitamin B12	Х
	Folate	Х
	Calcium	Х
	Intact PTH	Х
	25-D	Χ

Albumin/

density and

body

prealbumin Vitamin A Zinc

Bone minera

composition Vitamin B1

X: Indicate the suggested schedule for laboratory monitoring after bariatric surgery Xa: Examinations should be performed after Roux-en-Y gastric bypass.

Source: Heber et al. J Clin Endocrinol Metab. 2010. 95 (11): 4823-43

Access to the full guideline and additional resources are available at the following link: https://www.healthquality.va.gov/quidelines/CD/obesity/