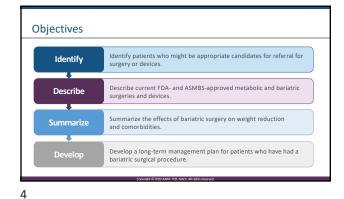




This activity was sponsored by an educational grant from Novo Nordisk, Inc.







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Appropriate Referrals for Metabolic/Bariatric Surgery

• BMI≥40 kg/m²

- BMI≥35 kg/m² + 1 obesity-related complication
 €g, high risk for T2DM (insulin resistance, metabolic syndrome, prediabetes), poorly controlled hypertension, NAELO/NASH, OSA, OA of the knee or hip, SUI
- hypertension, NAFLD/NASH, OSA, OA of the knee or hip, SUI
 BMI 30-34.9 kg/m² + T2DM with inadequate glycemic control despite optimal lifestyle and medical therapy
- Inability to achieve healthy weight loss sustained for a period of time, with prior weight loss efforts

 $\label{eq:clinical Note: BMI criteria for bariatric procedures should be adjusted for ethnicity (>25 kg/m^2 classified as obesity in Asians)$

BMI, body mass index; NAFLD, non-alcoholic fatty liver disease; NASH, non-alcoholic steatohepatitis; OA, osteoarthritis; OSA, obstru

Incommentary, ICOM, Open & Manusca Imanual. American Society for Metabolic surgery. 2016. https://acmbs.org/patients/who-is-a-candidate-for-bariatric-surgery. Accessed April 7, 2021. Johnson RJ, et al. Am Surg. 2012 Jun;78(6):685-682. Mechanick JJ, et al. Endocr Proct. 2019;25(12):1346-1359.

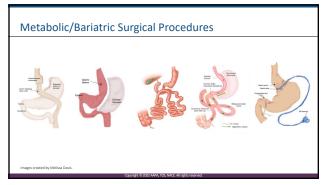
	Polling Question	?
Which of the following is a contraindication for bariatric surgery?	 Active binging/bulimia Advanced age HbA1c greater than 8% New diagnosis of cancer BMI 	
	Coovright © 2022 AAPA, TOS, NACE, All rights reserved.	

Metabolic/Bariatric Surgery

Contraindications:

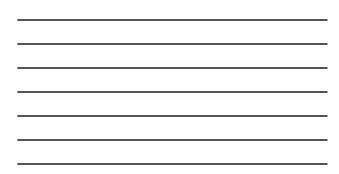
- Active substance abuseActive psychiatric disease
- Active psychiatric discuse
- Active binging/bulimiaNoncompliance
- Poor competence
- HbA1c >8%
 - Advanced age (data do not support age cutoff)
 New diagnosis of cancer
 - BMI

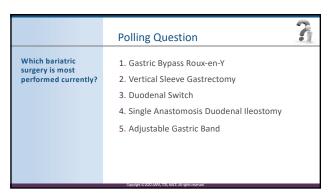
Not a Contraindication:

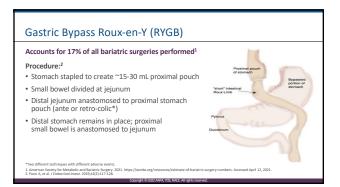


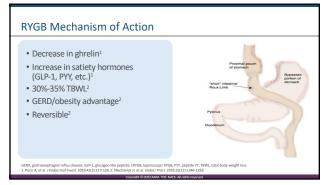


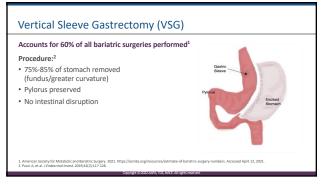


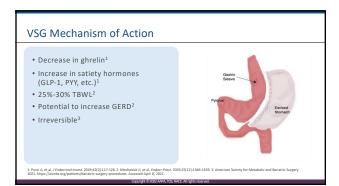


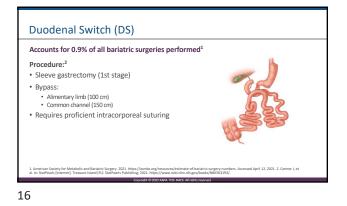


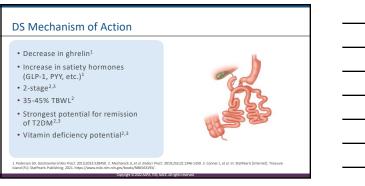




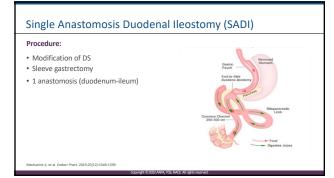


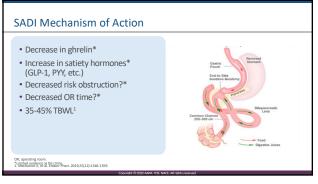




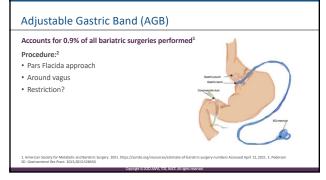


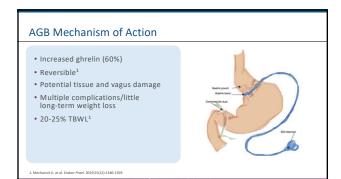


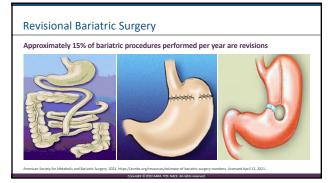












Complications of Metabolic/Bariatric Surgeries

Early (<30 days)

- BleedingLeak
- Pneumonia
- Bowel obstruction
- VTE (PE/DVT)
- Dehydration
- N/V

Stricture

Late (>30 days)

- Hernia (incisional and internal)
- Marginal ulcer
- Vitamin deficienciesOsteoporosis
- Dumping
- DVT, deep vein thrombosis; N/V, nausea and vomiting; PE, pulmonary embolism; VTE, venous thromboembolism



Weight-loss Devices

FDA Approved

- Adjustable gastric band (Lap-Band[®])
- Intragastric balloons (Orbera[®], Reshape®, Obalon®)
- Transpyloric bulb (TransPyloric Shuttle®)

American Society for Metabolic and Bariatric Surgery; FDA, Food and Drug n Society for Metabolic and Bariatric Surgery. 2019. https://asmbs.org/res

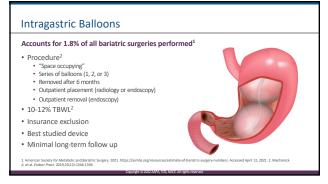
ASMBS Approved

Adjustable gastric band (Lap-Band[®])

ed April 12, 2021

- Intragastric balloons (Orbera[®], Reshape®, Obalon®)
- Aspiration therapy (AspireAssist®)
- Vagal Nerve Blocking Therapy (Vbloc[®])

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Transpyloric Bulb • Procedure:1 Introduced and removed endoscopically Large bulb – pylorus Small bulb – duodenum "Faster filling time and delayed gastric emptying" • Remains intact up to 12 months • 14% TBWL² Insurance exclusion 1. Szoka NI, et al. 2019. https://www.sages.org/pu 2019;25(12):1346-1359. sed April 12, 2021. 2. Mechanick JI, et al. Eng shuttle/. Ac

Aspiration Therapy

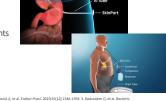
- Procedure:1
- Endoscopically placed G-tube (connected to a skin port valve)
 Connector locks after 115 cycles
- Connector locks after 115 cycles (5-6 weeks) so patient must return to the clinic
- Patient aspirates stomach contents after each meal¹

ralogy. 2013;145(6):1245-1252.e525. 2. Mecha

- Can remain intact indefinitely
- 12-14% TBWL²

1. Sullivan S, et al. Gostroent Times. 2019;16(2):8-10.

Insurance exclusion



Device Components³

28

Vagal Nerve Blocking Therapy

• Procedure:1

- Laparoscopically placed
 Requires meticulous dissection of anterior and posterior vagus
- Large neuroregulator¹
- Requires 12-hour use/day¹

lin S, et al. JAMA. 2014;312(9):915-922. Erra

itum in: JAMA. 2015;313(1):95. 2. M

- 24-month follow up
- 8-9% TBWL²
 -

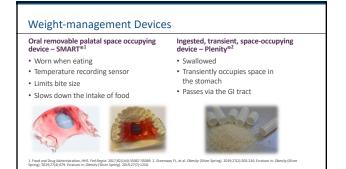


ick Jl, et al. Endocr Proct. 2019;25(12):1346-1

Insurance exclusion

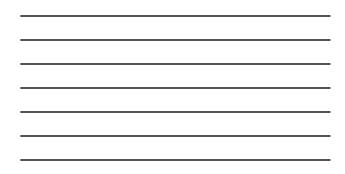
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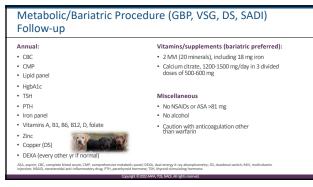


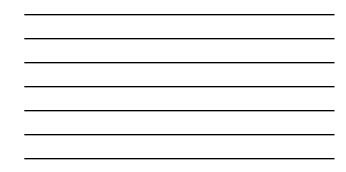














Hospital or Surgical Facility

- High-volume accredited center
- Emergency department and intensive care unit
- Dedicated bariatric unit
- Bariatric certified nurses (CBN)
- CT scanner (600+ pounds)
- MRI (500+ pounds)
- Specialized surgical team

iv: MRI. ma

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Additional Resources

- American Society for Metabolic and Bariatric Surgery: <u>www.asmbs.org</u>
- Obesity Action Coalition: <u>https://www.obesityaction.org</u>/
- Centers for Disease Control and Prevention: <u>http://www.cdc.gov/obesity/resources/</u>
- The Obesity Society (NHLBI): http://www.obesity.org/
- Obesity Medicine Association: <u>https://obesitymedicine.org/</u>

