

# AGA Clinical Practice Guidelines on Intragastric Balloons in the Management of Obesity By Rishi Das, MD

#### Definition

Intragastric balloons (IGB) are endoscopically placed silicone balloons filled with saline or air mixture, left in the gastric lumen for 6-12 months to reduce apparent gastric capacity and facilitate weight loss. Only 1.1% of eligible patients with obesity receive bariatric surgery, and <5% patients are aware of endoscopic options.

## **Appropriate Candidates**

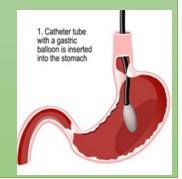
- -BMI 30-40
- -Participation of balloon deployment at least 6 months, implementation of concomitant lifestyle changes

### **Absolute Contraindications**

- -Prior history of esophageal and stomach surgery
- -Coagulopathy
- -Upper GI Bleeding Lesions
- -Child-Pugh B/C or decompensated cirrhosis
- -Pregnancy
- -Hiatal hernia >5cm

### **Relative Contraindications**

- -Hiatal hernia 3cm-5cm
- -IBD: Crohn's, UC
- -Chronic NSAID Use
- -History of Esophagitis



## **Efficacy**

- -Average weight loss of 9-15 pounds over course of insertion within 12 months with as much as 20% by 9 months
- -4.1cm average waistline reduction
- -Improvement in lab markers: A1c, fasting blood glucose, liver function tests
- -Higher remission rates of type 2 diabetes, hypertension, hyperlipidemia

#### **Adverse Events**

- -Gastric Perforation: 0.1%
- -Balloon Migration: 1.4%
- -Mortality: 0.08%

#### **Side Effects**

- -Nausea/Vomiting
- -Abdominal pain
- -Diarrhea

## **FDA Approved Devices**











Balloon	1 Balloon	2 Balloons	3 Balloons	1 Balloon
Volume	400-700ml Saline	450ml saline x2	250ml Nitrogen Gas x3	300-900ml saline Adjustable
Duration	6-12 month	6 month	6 month	12 month
Advantages	Longest in market and studied	High gastric volume occupancy	No endoscopy for insertion	Volume capacity adjustment

The Emoroid Digest  @EmoryGastroHep  @Emory2024	Recommendation	Strength of Recommendation	Quality of Evidence
Implementation:	Among patients failing conventional weight loss intervention and pursuing IGB, lifestyle modifications should be used in conjunction.  Fluid-filled balloons may be associated with more weight loss, however less favorable safety profile than gas-filled. Shared decision making is warranted.	Conditional	Moderate
	Among patient pursuing IGB, moderate-high intensity lifestyle modification should be used in conjunction.  High intensity lifestyle interventions are multi-faceted including counseling sessions with trained interventionists, low calorie diet 1200-1500 kcal/day, and 200-300 min/week of aerobic exercise.  Patients with ongoing lifestyle modifications post-balloon removal continue to have ongoing weight loss.	Strong	Moderate
Tissue Injury Prevention:	PPI prophylaxis recommended among patient having IGB inserted.  Lowest dose and frequency suggested: Once a day dosing	Strong	Moderate
Side Effect Prevention:	Scheduled anti-emetic regimen for 2 weeks post IGB placement is recommended.  Choice of agent per clinical practice, evidence used compared ondansetron and midazolam, with better performance using both.	Conditional	Low
Nutrition:  B D B B B B B B B B B B B B B B B B B	Pre-IGB laboratory screening of nutritional deficiencies is not recommended. Daily supplementation with 1-2 adult dose multivitamins is recommended.  Low quality evidence for presence of thiamine or folate deficiency with 0-29% prevalence.  Low quality evidence of thiamine or folate deficiency being prevented with supplementation.	Conditional	Low Very Low