



CANADIAN ASSOCIATION
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Dynamic Practice Guidelines for Emergency General Surgery

Committee on Acute Care Surgery, Canadian Association of General Surgeons

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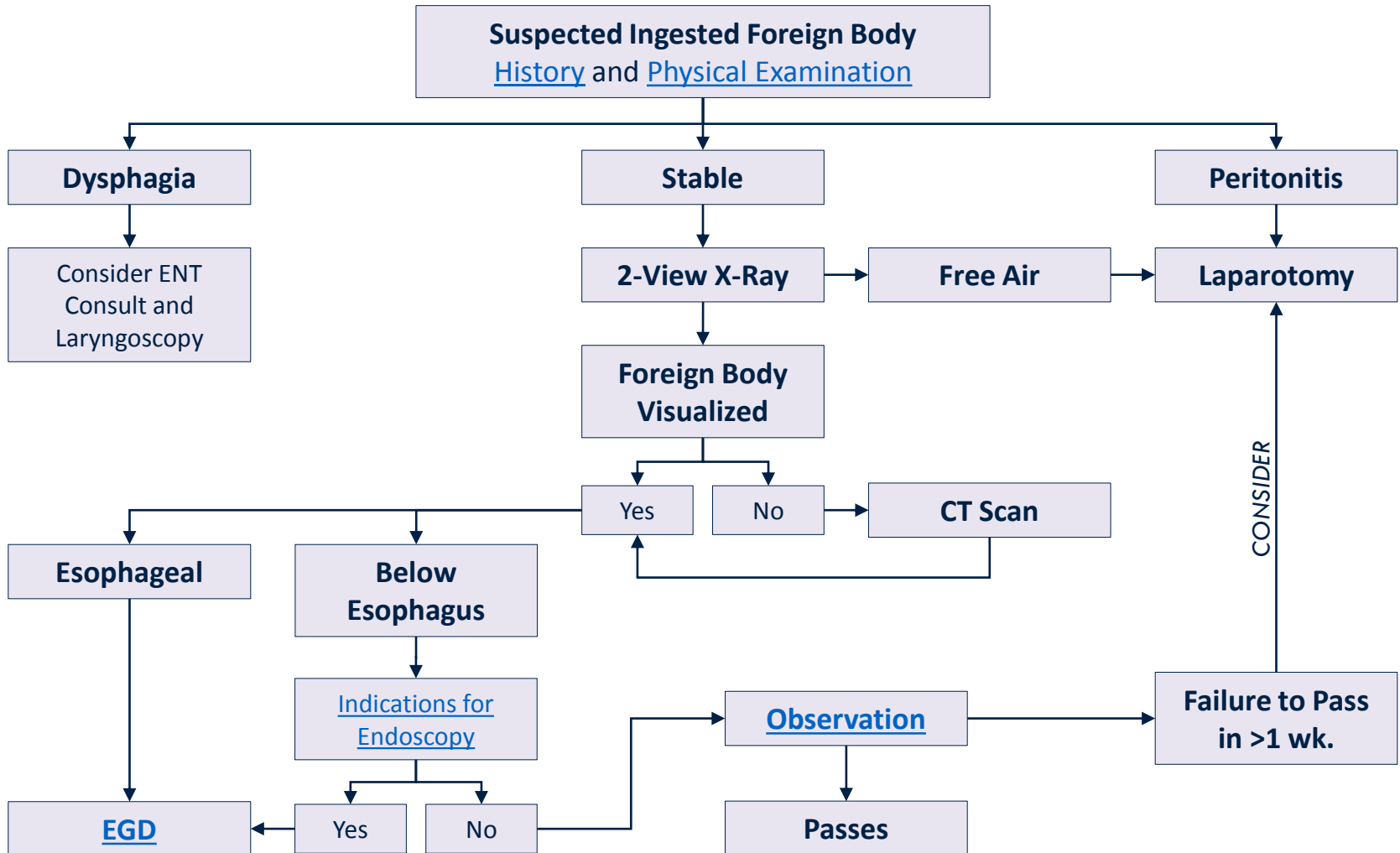
UPPER GI FOREIGN BODIES

Dynamic Practice Guidelines for Emergency General Surgery

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UPPER GI FOREIGN BODIES



BACKGROUND

- Most commonly swallowed: Fish bones, other bones and dentures
- Consider pathology as a cause for impaction including: Strictures, cancer rings and achalasia.
- Passed naturally in 80%
- Up to 20% may require endoscopic removal while <1% require surgery
- Characterization is important in order to predict site of impaction and need for intervention
 - Material, contents
 - Size (especially > 6cm)
 - Surface (sharp vs smooth)

BACKGROUND

Other foreign bodies to consider: Bezoars

- Phytobezoars
 - Composed of plant material/cellulose
 - Can be enzymatically degraded by: cellulase, papain
- Trichobezoar – hair
- Lactobezoar – inspissated milk
- Pharmacobezoar – drugs/pills
- Diospyrobezoar – unripened persimmons

HISTORY OF PRESENTING ILLNESS

- Symptoms in children may be subtle – hypersalivation, refusal to eat, and failure to thrive
- Non-impaired adults often describe a history of ingestion and specific area of discomfort, although description of location is often not accurate
- Other symptoms include dysphagia, odynophagia, dysphonia, retrosternal chest pain, and wheezing.
- Once objects reach the stomach, symptoms are unlikely unless complications

UPPER GI FOREIGN BODIES

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PHYSICAL EXAMINATION

- Helps to identify complications that may have occurred
- Assess airway, breathing, and risk of aspiration prior to removal of foreign body

SPECIFIC EXAMINATIONS

- Neck and chest examination – crepitus, erythema, and swelling suggest a proximal perforation
- Lung examination – detection of aspiration or wheezing
- Abdominal examination – evaluate for signs of perforation and obstruction
 - **Signs of peritonitis** - abdominal pain, rebound, guarding, tachycardia, hypotension, and fever

INDICATIONS FOR UPPER ENDOSCOPY

EMERGENT

- Esophageal occlusion
- Sharp/pointed objects (perforation risk)
- Batteries – alkaline/mercury can lead to necrosis, fistulas

Urgent

- Magnets – may attract across luminal wall leading to perforation, obstruction, fistula
- >6 cm long foreign body

Elective

- Failure to pass (> 7 days) especially if remains pre-pyloric

NON-INTERVENTIONAL MANAGEMENT



- Most FBs pass through the GI tract without difficulty
 - Especially if $< 6\text{cm}$ and $< 2.5\text{cm}$ wide and passed pylorus
- Most pass within 4-6 days – have patients monitor stools
- Consider outpatient weekly x-rays
- Consider managing “body packers” (drugs) as inpatients
 - Signs of rupture should prompt laparotomy after medical stabilization
- Consider surgery in those with bowel obstruction or persistence in distal duodenum >1 week