**Management of Button Battery in GI Tract**

**If object at OR above clavicles consult ENT**

Witnessed or suspected Button Battery (BB) ingestion

**Esophageal**
- Consult Pediatric Surgery/Trauma

**Gastric or beyond**
- Consult pediatric GI

Otherwise stable
- Immediate endoscopic removal
  - May consider Honey* (>12 months) or Sucralfate* while waiting for endoscopy

Active bleeding, clinically unstable
- Call Trauma Major
- Endoscopic removal in Operating Room with surgery/CV surgery present

If evidence of a non-foreign body injury:
- Admit, NPO, IV antibiotics
  - Consider CT angiography to exclude aortic injury
  - Consider MRI of the chest to determine proximity of injury to aorta

No significant injury to surrounding tissue or in proximity to aorta

Demonstration of injury close to aorta

- Esophagram to exclude leak before advancing diet as tolerated

If esophageal injury present:
- Admit, NPO, IV antibiotics and consider CT angiography or MRI of the chest
- Repeat x-ray in 48-hours for BB >= 20 mm.
- Repeat at 10-14 days for BB>20 mm if failure to pass in stool

If hemorrhage present or UGI bleeding within 21 days of removal, assume aortoesophageal fistula and emergently prepare for thoracotomy with CV surgery

Endoscopic removal
- If develops GI symptoms or not passed stomach by time of x-ray at time described above

< 5 years old AND BB >= 20 mm
- Consider assessment of any esophageal injury and endoscopic removal if possible within 24-48 hours
- May consider outpatient observation only

> 5 years old AND/OR BB < 20 mm

1. SSMHealth Cardinal Glennon CPG Home

2. References:

3. Key Notes:
   - GI tract Foreign Body (FB) above clavicles: Consult Ear Nose and Throat (ENT) division
   - GI tract FB below the clavicles:
     - Sharp FB in the esophagus: Consult Pediatric Surgery
     - Esophageal food impaction: Consult Pediatric GI
     - Esophageal button battery: Pediatric Surgery (Major Trauma activation)
     - Coins or non-sharp objects in the esophagus: Pediatric Surgery odd date days, Pediatric GI even date days,
     - FB located in stomach or distal including (magnet, sharp, battery): Consult Pediatric GI unless symptomatic, then consult Pediatric Surgery

4. Abbreviations:
   - FB: Foreign Body
   - ENT: Ear Nose and Throat
   - GI: Gastrointestinal
   - PEG: Polyethylene Glycol
   - ED: Emergency Department
   - EFI: Esophageal Food Impaction
   - EsE: Eosinophilic Esophagitis
   - BB: Button Battery
   - NPO: Nil per oral
   - IV: Intravenous
   - Abx: Antibiotics
   - CT: Computed Tomography
   - MRI: Magnetic Resonance Imaging

5. Guideline Exclusion Criteria:
   - This guideline is not intended for
     (a) Patients with multiple trauma.
     (b) Patients with established SLUCare/SSM Glennon providers
        (in such a situation - that provider should be notified in addition
        to following the guideline).
     (c) Foreign body in the airway or nasal passages.

6. Guideline Inclusion Criteria:
   - This guideline is intended for the pediatric population seen at
     Cardinal Glennon, SLUCare, contacts from the Access Center or other routes.

7. Background information for Guideline:
   - JPGN. 2015;60: 562

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Approved August 2020

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This document is intended for educational purposes only and should not be used as a substitute for professional medical advice.