

**SUSPECTED/ ESTABLISHED
ESOPHAGEAL BUTTON
BATTERY INGESTION**

- Inclusion Criteria**
- Confirmed esophageal button battery ingestion on x-ray
OR
 - History suggestive of button battery ingestion, unable to confirm on x-ray

- Exclusion Criteria**
- Foreign Body Aspiration

If the battery is in the AIRWAY above the clavicles, consult ENT; and if below the clavicles, consult **both** ENT and Surgery

- REFERRING FACILITIES:**
- Contact the Patient Flow Center
IMMEDIATELY CALL: (504) 842-3213
 - Begin immediate Honey or Carafate
 - Honey ≥ 1 year old only
 - See dosing below
 - Transfer to OCH by the **MOST EXPEDITIOUS** route available

Send directly to the Pediatric ED

If receiving a transfer, please consider notifying the appropriate subspecialties **PRIOR** to arrival to the PED

Active bleeding in the ED?

Yes

- IMMEDIATELY:**
- Obtain X-ray Foreign Body STAT
 - Consult Pediatric Surgery, Gastroenterology, CV Surgery, Interventional Radiology
 - Alert Anesthesia and mobilize OR with fluoroscopy
 - Place Blakemore tube at the bedside
 - Obtain labs: CBC, PT/PTT, Type & Screen
 - Consider activating massive transfusion protocol

No

- STAT X-ray Foreign Body (if not already done)
- Begin **immediate** administration:
 - ≥ 1 year: Honey or Carafate 10 ml PO q10 min (x6 max)
 - < 1 year: Carafate 10 ml PO q10 min (x6 max)
 - Max dose of honey or Carafate: 6 doses
- IV placement
- NPO (except honey or Carafate)

Battery AT/ABOVE Clavicles

Battery BELOW Clavicles

CONSULT PEDIATRIC SURGERY FOR CLASS A REMOVAL

CONSULT PEDIATRIC GI FOR CLASS A REMOVAL

GOAL is to OR < 2 hours from presentation for removal

- If no evidence of perforation, irrigate with 50-150 ml of 0.25% Acetic Acid
- Consider endoscopic/fluoroscopic placement of post-pyloric feeding tube
- If mucosal injury was present, observe for and anticipate delayed complications

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REFERENCES:

<https://www.poison.org/battery/guideline>

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Kramer, Robert E., et al. "Management of ingested foreign bodies in children: a clinical report of the NASPGHAN Endoscopy Committee." *Journal of pediatric gastroenterology and nutrition* 60.4 (2015): 562-574

Leinwand, Kristina, David E. Brumbaugh, and Robert E. Kramer. "Button battery ingestion in children: a paradigm for management of severe pediatric foreign body ingestions." *Gastrointestinal endoscopy clinics of North America* 26.1 (2016): 99

Anfang RR, Jatana KR, Linn RL, Rhoades K, Fry J, Jacobs IN. pH-neutralizing esophageal irrigations as a novel mitigation strategy for button battery injury. *Laryngoscope*. 2019 Jan;129(1):49-57. doi: 10.1002/lary.27312. Epub 2018 Jun 11

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