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CHECKLISTS IN BARIATRIC SURGERY

CHECKLIST #1

Diagnosis and management of acute intractable vomiting after gastric bypass

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mesis after gastric bypass is a common event. This checklist is aimed at patients with unusual intractable vomiting

ACUTE

☑ Basic Initial Management:

- Observation
- Patient sitting position or left lateral decubitus
- _ IV access
- Proton pump inhibitors IV
- NPO
- Antiemetic
- Foley catheter
- Hydrate (NaCl)
- Prokinetics
- Plain abdominal x-ray
- Consider NGT under fluoro guidance if risk of aspiration (no need to go beyond anastomosis)
- Steroids

☑ Differential diagnosis:

- _ Narcotics for pain (Morphine)
- _ GJ Stenosis (edema)
- Roux construction errors (Rouxen-0)
- Tight mesocolic defect (for retrocolic route of roux limb)
- Hypertensive crisis
- _ Cardiac event
- Neurologic event
- B1 deficiency
- _ distal obstruction (JJ Stenosis)
- Internal (adhesions) or trocar site hernia
- _ Intussusceptions
- _ acute remnant dilatation
- Acute pancreatitits
- Biliary origin
- Kidney stones (rare acutely, unless previous history)
- Unrecognized bowel injuryUnrelated intrabdominal process
- (i.e. appendicitis)

 Acute adrenal insufficiency if hypotension and preoperative
- history of chronic steroid therapy Mouth breather

☑ Differential diagnosis and treatment options:

If hypertensive crisis

- _ Labetalol IV as needed
- _ ICU monitoring as needed
- Restart preop hypertensive medication ASA PO is tolerated

If cardiac event

- _ EKG, cardiac enzymes
- _ Start therapy as per cardiology recommendation
- ICU monitoring

If neurologic event

- Airway protection
- _ Resuscitation
- _ STAT imaging study and neurology consult
- Treatment dictated by etiology

B1 defficiency

- _ IV thiamine
- Continue hydration and monitor for improvement

If narcotic related

- _ DC Morphine
- _ Start Dialudid
- _ Alternate IV narcotic (Dilaudid, demerol,etc)
- _ IV Tylenol
- _ Last resort IV Toradol

If clear emesis /sialorrhea / heartburn consider, GJ

anastomosis stenosis

- _ Next is UGI with gastrographin. Do not use thin barium as it can limit or delay the EGD by several days (Usually
- 3 until it clears up).

 Consider EGD if totally obstructed
- _Consider decompression via NGT and observation with NPO
- _ Dilate after POD #4 under anesthesia in OR and consider redo anastomosis if not dilatable

If bilious emesis (GJ open) and Biliopancreatic limb open

- consider common channel obstruction. Differential diagnosis Intussuception,
- Adhesion, Hernia.
 _ CT scan of the abdomen
- _ If transition zone, relaparoscopy if not consider ileus
- _ If ileus, replace ileus. NGT decompression and observe for resolution. Replace potassium, magnesium and hydrate
- aggressively
 _ If intraluminal clot, relaparoscopy and evacuation vs.
 re-do J-J.
- _ If intussusception, reexploration with plication vs. redo J-J.

If enteric emesis (GJ open) consider possible common

- channel or BP limb obstruction
- _ CT scan of the abdomen
- If remnant collapsed and no distal transition zone, consider
- _ If ileus treat as above mentioned
- _ If remnant distended, consider emergent relaparoscopy and correction of JJ Stenosis vs. gastroparesis (see below). Leave a G-tube behind

If acute adrenal failure

- _ Patient to be admitted to ICU
- Stim test
- Steroid and fluid replacement
- _ Further treatment as per ICU protocol

If ketone bodies

- _ Hydration
- Antiemetics
- _ Introduce carbohydrates in the diet (controversial)

If acute pancreatitis

- _Aggressive hydration
- _ Monitor urine output
- Obtain imaging study of pancreas and gallbladder (CT scan with IV contrast ± U/S)

If acute appendicitis

- _ Clinical diagnosis ± imaging study
- _ Surgical intervention

If unrecognized bowel injury

Re-exploration ± imaging study

If Kidney stone

- _ Hydration
- Urinalysis
- _ Imaging to r/o hydronephrosis
- Observation vs. GU consult

If biliary in origin

- _ US RUQ
- _ Laboratory evaluation
- Elective vs. urgent
- cholecystectomy, vs. decompression CBD

If acute remnant distention

- _ CT scan of the abdomen _ If remnanant air filled and JJ open, consider gastroparesis and
- percutaneus decompression and drainage.

behind.

If remnant fluid filled and or J-J transition, emergent relaparoscopy and correction of JJ Stenosis. Leave G-tube

CHRONIC

☑ Behavioral

- Eating too fast, too much, wrong foods
- _ Dietary counseling
- Dumping syndrome
 _ Dietary counseling

Mechanical Stricture

_ EGD dilatation, repeat as necessary. If refractory consider re-do dilatation with steroid injection vs. redo GJ.

Marginal ulcer

- _EGD, smoking cessation, NSAID's use cessation, PPI +
- Sucralfate
 _ If refractory, consider excision
 with pouch reduction. Consider
 vagotomy if acid hypersecretion.
 Check for gastrinoma

Internal hernia

_ Re-exploration, reduction vs. resection, closure of defects

Intussusception

Reduction vs. resection, plication vs. re-do J-J

Abdominal wall hernias

_ Physical exam, ± imaging studies. Surgical repair

Associated process Biliary

- See above
- **Pancreatitis**
- See above
- Renal colic

 See above
- Acute appendicitis

- See above

treatment

- Pregnancy
 _ Close vitamin levels monitoring
 and patient follow up
- _ Direct communication with Obstetrician

Musculoskeletal injury

_ Treat symptomatically _ Identify injury and implement appropriate

Disclaimer: The information in this handout is for educational purposes only and should not be used as a primary source of treatment.









