

ACUTE MESENTERIC ISCHEMIA

I. ETIOLOGY

- A. Embolization to SMA –50%
- B. Thrombosis at origin of SMA – 25%
 - i. Areas of critical stenosis – usually at origin
 - ii. Unheralded event or acute exacerbation in patient with chronic symptoms
 - iii. Angiography prior to O.R.
 - iv. Emergent: retrograde with vein is optimal
- C. Nonocclusive mesenteric ischemia
 - i. Low blood flow from MI, sepsis
 - ii. Vasoactive drugs (digoxin)
 - iii. Treat underlying illness, stop pressors
- D. Vasculitis and small vessel disease
 - i. Lupus, scleroderma, amyloidosis
 - ii. Segmental, and needs resection, not revascularization if surgical intervention needed
 - iii. Treat underlying disease
- E. Mesenteric venous thrombosis
 - i. Obstruction vs. hypercoagulability
 - ii. Anticoagulation

II. ACUTE SMA EMBOLIZATION

A. Location and Causes

- i. First 3-5 cm from origin, just past takeoff of the MCA
- ii. Usually originates from the heart with atrial fibrillation and/or MI
- iii. Any arrhythmia can cause an embolus
- iv. Atrial septal defect and atrial myxoma

B. Presentation

- i. Acute onset of severe abdominal pain
- ii. Explosive diarrhea/vomiting sometimes can occur
- iii. **“pain out of proportion to physical findings”**
- iv. lab tests nonspecific until late
- v. metabolic acidosis “serum lactate”

C. Diagnosis

- i. Suspicion based on history and physical exam
- ii. Angiography or CT scan
- iii. Early diagnosis is imperative
- iv. Leukocytosis, acidosis, peritonitis

D. Treatment

- i. Early operative intervention critical
- ii. Achieve pulsatile flow and resect any nonviable bowel
- iii. Planned second look procedure if questionable viability

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