

ACUTE PANCREATITIS

*** PLEASE SEE PAGE 2 FOR ADDITIONAL CONSIDERATIONS ***

Inclusion Criteria

- Acute abdominal pain *PLUS*
- Amylase or lipase > 3x the upper limit of normal *OR*
- Any imaging suggestive of pancreatic inflammation

Exclusion Criteria

- Known gallstone pancreatitis
- Diabetic ketoacidosis
- Underlying metabolic disease

Diagnosis of Acute Pancreatitis

(see inclusion criteria above)

Yes

No

Off pathway, consider alternative diagnoses

MILD / MODERATE

LABS: CBC, CMP, lipase, amylase, GGT, magnesium, triglycerides, LDH, CRP
IMAGING: US abdomen (if not already obtained)

Admit to inpatient + GI consult

SEVERE

** Unstable vital signs, respiratory distress, AKI, or signs of end organ dysfunction*

Consider PICU consult/admission

Elevated WBC, BUN and Hct can be associated w/ a complicated course

Early IV volume resuscitation has been associated with better outcomes

Studies have shown superiority of LR over NS, if available

FLUIDS

20 ml/kg LR or NS bolus

DEHYDRATED ?

Poor UOP, tachycardia, hypotension, delayed cap refill, poor skin turgor

Yes

Repeat 20 ml/kg LR or NS bolus

DEHYDRATED ?

Yes

Repeat 20 ml/kg LR or NS bolus

Consider PICU consult/admission

No

D5 NS or LR at 1.5x maintenance rate (max 150 ml/hr)

Wean IV fluids when euvolemic and tolerating enteral intake

PAIN MANAGEMENT

MILD PAIN (score 0-3)

- Acetaminophen 15 mg/kg PO/IV q6 hrs (max 1,000 mg)
AND/OR Ibuprofen 10 mg/kg PO q6 hrs (max 800 mg)

MODERATE PAIN (score 4-10)

- Acetaminophen 15 mg/kg PO/IV q6 hrs (max 1,000 mg)
AND/OR Ketorolac 0.5 mg/kg IV q6 hrs (max 30 mg)
- Morphine 0.05 mg/kg IV q4 hrs PRN (max initial dose 5 mg)

All patient on opiates should be started on a bowel regimen

PAIN CONTROLLED ?

Yes

Wean pain medications after 24-48 hrs

Yes

No

- Acetaminophen 15 mg/kg IV q6 hrs (max 1,000 mg)
AND Ketorolac 0.5 mg/kg IV q6 hrs (max 30 mg)
- Morphine 0.1 mg/kg IV q4 hrs or consider a PCA

PAIN CONTROLLED ?

No

Consider PCA and/or Pain consult

NUTRITION

CONTRAINDICATION TO ENTERAL FEEDS ?

Yes

NPO + IVF

> if 5 DAYS

NJ Feeds or TPN

No

Clear Liquid Diet

TOLERATING DIET ?

Yes

Regular Diet (when clinically stable/euvolemic)

TOLERATING DIET ?

Yes

Regular Diet Ad Lib

No

NJ/NG Feeds

TOLERATING DIET ?

No

TPN

ACUTE PANCREATITIS

ADDITIONAL CONSIDERATIONS:

FLUIDS:

- Fluid resuscitation and use of goal-directed therapy will improve outcomes; however, overly aggressive fluid resuscitation can result in complications. Monitor for signs of fluid overload or third-spacing frequent during the first 24-36 hours.
- Consider LR over NS if metabolic acidosis is present; LR may be superior to NS for initial resuscitation.
- Wean IV fluids based on clinical status and enteral intake.

LABS:

- Elevated WBC, BUN, and Hct can be associated with a complicated course of acute pancreatitis.
- Amylase or lipase trend does not correlate with pancreatitis outcome.

ANALGESIA:

- When using Acetaminophen or NSAIDs, at least one should be scheduled; the alternative may be scheduled or PRN.
- Use nonsteroidal anti-inflammatory drugs only if BUN and creatinine are normal.
- Alternative opiates may be substituted based on patient needs and institutional preferences.
- When using opioids, place patient on a bowel regimen.

NUTRITION:

- Unless contraindicated, patients should be started on a clear liquid diet at admission. Advance to a regular, age-appropriate diet once clinically stable and euvoletic. Delaying regular diet for 48-72 hours should be considered if there is any concern for necrotizing/severe pancreatitis
- Examples of contraindications to enteral feeding include, but are not limited to: hemodynamic instability, prior TPN-dependence, intestinal obstruction, and ileus.
- If not tolerating adequate PO diet within 48 to 72 hours, consider if pain and/or nausea are adequately controlled.
- In the rare cases of significant hypertriglyceridemia, consult Endocrinology for recommendations re: low-fat diet.

IMAGING:

- Obtain an US abdomen if not completed in the initial evaluation
- If persistent pain or intolerance of PO, consider imaging to evaluate for complications from pancreatitis (eg, pancreatic fluid collection/necrosis or pancreatic duct stricture/stones): (1) CT Abdomen with IV contrast, or (2) MRCP if biliary/pancreatic duct abnormalities are suspected.

Ochsner Children's Clinical Pathways Committee
August 2025, due for review August 2028

Made in collaboration with:



REFERENCES:

Sellers Z., Dike C, Zhang K, Giefer M, Uc A, Abu-El-Haija M (2019). A unified treatment algorithm and admission order set for pediatric acute pancreatitis. *Journal of pediatric gastroenterology and nutrition*, 68(6), e109-e111.

Abu-El-Haija M, Kumar S, Quiros J, Balakrishnan K, Barth B, Bitton S (2018). Management of acute pancreatitis in the pediatric population: a clinical report from the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Pancreas Committee. *Journal of pediatric gastroenterology and nutrition*, 66(1), 159-176.