

Initial orders

- LFT
- BMP
- CBC
- PT/INR
- aPTT
- Ammonia
- Acute Hepatitis Panel
- Acetaminophen (APAP) Level

Consider additional tests as indicated

- Non Contrast Head CT
 - If focal neuro findings
 - Salicylate / Ingestion Labs
 - if history suggests
- Ceruloplasmin
- Urine Copper
- HCG

Clinical Concern for Acute Liver Failure

INR < 1.5

Liver Injury

INR < 1.5 or Chronic Liver Disease

Manage per primary diagnosis

INR > 1.5

Acute Liver Failure

Calculate [MELD](#)

*Grade [Hepatic Encephalopathy \(HE\)](#)

***West Haven Criteria for Hepatic Encephalopathy Grading**

Grade 0: Abnormal psychometric or neuropsychiatric tests (not an ED Dx)

Grade 1: Lack of awareness, euphoria, anxiety, short attention span, impairment of addition or subtraction, altered sleep rhythm

Grade 2: Asterixis, disorientation for time, obvious personality change, inappropriate behavior, dyspraxia

Grade 3: Somnolence, confusion, disorientation for both space and time, bizarre behavior

Grade 4: Coma – not responding to painful stimuli

Determine Etiology

Pregnant?

- HELLP
- Acute Fatty Liver of Pregnancy

Acetaminophen Toxicity

See [APAP Tox Protocol](#)

OB / MFM Consultation

Unknown Etiology

Give N-Acetyl Cysteine if Grade I/II HE

Consider imaging

- RUQ US (if available)
- CT Abdomen Pelvis (3 phase)

Consult Transplant Hepatology

Admit to level commensurate with [encephalopathy](#) and vital sign abnormalities

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