

Consult Stries #53

INTRAHEPATIC CHOLESTASIS

PREGNANCY

Society for Maternal-Fetal Medicine in collaboration with Lauren Meiss, MD

WHEN: 2nd & 3rd trimester of pregnancy

INCIDENCE: 0.3% to 0.5% [most estimates]

Pruritus affects 23% of Pregnancies

MOST COMMON: no parhologic cause

PATHOLOGIC CAUSES:

atopic eruption of pregnancy (REP) [MOST COMMON PRURITIC DID] POLYMORPHIC eruption of pregnancy (PEP) [MOST COUMON DERMATOSIS] pemphigoid gestation is (PG) [RARE] intrahepatic cholestasis of pregnancy (ICP)

ASSOCIATED FINDINGS

eczematous rash on face, antecubital popliteal fossa, trunk Pruritic Urticarial papules à Plaques on abdomen à thighs vesicles & bullae

generalized itching + palms & soles, worse at night no rash

Conditions associated with pruritus without rash Chronic renal failure Hypo- or hyperthyroidism Liver disease Malabsorption Parasitosis or helminthosis Hodakin disease Leukemia

Non-Hodgkin lymphoma Polycythemia rubra vera Tumors (paraneoplastic)

Drugs (hydrochlorothiazide, opioids, among others)

Multiple sclerosis

Psychiatric disease (anxiety, depression, obsessive compulsive

Society for Maternal-Fetal Medicine. SMFM Consult Series #53: Intrahepat cholestasis of pregnancy. Am J Obstet Gynecol 2020.

ASSESS: Hx of IVDU Onset **PMHX** Meds & Allergies Risk factors for hepatitis Timina Travel hx Pets



Severity

RED FLAG FOR ALT CAUSE

- excessive fatigue
- insomnia
- malaise
- abdominal pain
- clevated bile acide before the second trimester





Itching + Normal bile acids?

* itching can precede + bile acids by several weeks

.. if sam persist -> repeat testing

COMPLICATIONS

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Other causes of elevated bile acids

Primary sclerosing cholangitis (associated with inflammatory bowel

Bacterial, fungal, and viral infections (eg, Ebstein-Barr virus and

Drug-induced cholestasis (trimethoprim-sulfamethoxazole, phenothiazines, ampicillin)

Primary biliary cholangitis

Obstructive bile duct lesion

Liver tumor

cvtomegalovirus)

Hepatic amyloidosis

Hepatic sarcoidosis

Autoimmune hepatitis

Total parental nutrition

Viral diseases

Crohn disease

Cirrhosis

Idiopathic adulthood ductopenia

Familial intrahepatic cholestasis

Sickle cell intrahenatic cholestasis

Hepatic congestion from heart failure

Lymphoma and solid organ malignancies

~1.2% of stillbirth at term is attributable to ICP]

1 higher stillbirth rate

Pathophysiology UNKNOWN but hypothesized to be 2/2 fetal arrhythmia or placental vasospasm

-data suggest risk of stillbirth is associated w| TBA level

2higher preterm birtn, asphyxia, respiratory distress syndrome, meconium-stained fluid

> - Prevalence of Spontaneous Preterm birth + W + TBA level

3.higher risk for preeclampsia

DIAGNOSIS

Pruritis + + total Serum bile acids - diseases associated w similar findings [some clinicians make its on clinical sum alone] *transaminitis can be seen, but is not necessary



WHO IS AT RISK?

- women w preexisting hepatobiliary disease women w history of ICP
- · has been associated in multiple gestations & AMA

MONITORING

*fasting value NOT necessary

Follow up laboratory testing may help guide delivery timing BUT Scrial testing (eg. weekly)
15 NOT RECOMMENDED

* If sams persist 4-6 weeks after delivery, biochemical → liver specialis+ testing should be repeated if ABNORMA

TREATMENT

- Ursodeoxycholic acid (UDCA) = 1st line for tx of maternal sxms
 - -data on whether UDCA improves perinatal outcomes are less conclusive
 - dose = 10-15 mg/kalday [divided into 2 or 3 daily doses]. MAX 21 mg/kalday
 - + pruritis in 1-2 weeks, + labs in 3-4 weeks

DELIVERY TIMING

TBA > 100 umol/L:

offer at 36 0/7 weeks of gestation

excruciating pruritis despite Rx can consider 34-36w if

h/o stillbirth <36w due to ICP hepatic dz w/ worsenina fn

TBA > 10 umol/L, but < 100 umol/L recommend delivery at 36 0/7 - 39 0/7 weeks of gestation

★ consider antenatal corticosteroids if delivering before 37 weeks *