INDICATIONS FOR TESTING
Liver disease of unknown etiology (all viral serologies negative, elevated transaminases)

ORDER
Autoimmune Liver Disease Evaluation with Reflex to Smooth Muscle Antibody (SMA), IgG by IFA AND Antinuclear Antibodies (ANA), IgG by ELISA with Reflex to ANA, HEp-2 Substrate, IgG by IFA

OR
Individual tests:
- F-Actin (Smooth Muscle) Antibody, IgG by ELISA with Reflex to Smooth Muscle Antibody, IgG Titer
- Antinuclear Antibodies (ANA), IgG by ELISA with Reflex to ANA, HEp-2 Substrate, IgG by IFA
- Liver/Kidney Microsome-1 Antibody, IgG
- Mitochondrial M2 Antibody, IgG (ELISA)

Positive result(s)
- ANA and/or F-Actin/SMA +
- LKM-1 +
- AMA + and ANA +/-

AIH-1 or PSC
- Suggests AIH-2

Suggests PBC

Suggests AIH-2

ORDER
Anti-Neutrophil Cytoplasmic Antibody, IgG to differentiate between AIH-1 and PSC

pANCA + with atypical staining pattern

Either test positive

Suggests AIH-1

pANCA + with atypical staining pattern, SLA -

Yes

No

Performs cholangiography

Suggests AIH

Suggests PSC

Suggests PBC

ORDER
Anti-Neutrophil Cytoplasmic Antibody, IgG

Soluble Liver Antigen Antibody, IgG

Negative

CCH

AIG

Test key
AMA Mitochondrial M2 antibody
ANA Antinuclear antibody
LKM-1 Liver-kidney microsome 1 (cytochrome P450 2D6)
pANCA Perinuclear antineutrophil cytoplasmic antibody
SLA Soluble liver antigen
SMA Smooth muscle antibody

Disease key
AIC Autoimmune cholangitis
AIH Autoimmune hepatitis
PBC Primary biliary cholangitis
PSC Primary sclerosing cholangitis
UC Ulcerative colitis