After the Initial Diagnosis of HBsAg+ Overview of Next Steps

History

- Previous or current symptoms of liver disease
- Source of HBV exposure (mother, household member, sexual contact, needle use, etc.)
- Previous or current immunosuppression (HIV, chemotherapy, biologic agents, etc.)
- Alcohol and drug use
- Cigarette smoking history
- Sexual history
- Born or parents born in intermediate or high prevalence regions
- ► Family history
- Occupational history
- ▶ History of incarceration
- History of combat exposure
- ▶ Complete review of systems

Physical Exam

- Complete physical exam
- Physical signs of chronic liver disease

Laboratory

- ▶ HBsAg
- ► HBV DNA
- ▶ HBeAg and anti-HBeAg
- ▶ HDV Ab
- HCV Ab w/reflex HCV RNA
- ► HAV IgG (total Ab)
- ► HIV Ag/Ab
- CBC/platelet
- Liver: AST, ALT, alkaline phosphatase, total bilirubin, direct bilirubin, Albumin
- Sodium, potassium, creatinine, glucose (chem 7)
- ► PT/INR
- ▶ Ferritin
- Vitamin D

Look for Evidence of Cirrhosis

- Ultrasound abdomen
 - If evidence of a cirrhotic appearing liver and/or enlarged spleen
- Platelet count (not applicable in asplenic patient)
 - If low, especially if <125K

If No Evidence of Cirrhosis, Determination of Fibrosis

- ► FIB-4 score and/or APRI score Cirrhosis can be excluded by:
- FIB-4 < 0.70
- APRI score < 0.45
- ▶ Biopsy (if needed)
- ► Fibroscan (preferred)

HBV Treatment

- Determine if recommended for treatment; refer to specialist
- All patients with (+) sAg and cirrhosis or co-infection should be treated

Patient Education

- ► Hepatitis B and potential outcomes (e.g., cirrhosis, HCC)
- ▶ Need for long term monitoring
- ► Role of Hepatitis B medications
- Sexual transmission
- ► Household transmission
- Mother-child transmission
- Testing for pregnant patients with hepatitis B
- ▶ Blood donation
- Ways to reduce risk of cirrhosis and HCC (e.g., lower alcohol, smoking, obesity, etc)
- ► Testing for co-infection HIV, HCV
- Effect of injection drugs and use of clean needle exchange programs

Immunizations

- ► Hepatitis A
 - 2 shot series
- ► Influenza
- Annually
- ▶ Tdap
 - Once and then Td booster every 10 years
- ► Varicella (if unvaccinated)
- 2 doses
- Recombinant zoster vaccine (RZV)
 - 2 doses
- ▶ Pneumonia vaccinations:

PPSV23 and PCV13

- 1. Initial: 1 dose PPSV23 at age 19-64 years
- 2. And, 1 dose PCV13 at ≥ 65 years (at least 1 year after PPSV23)
- And, 1 final dose PPSV23 at ≥ 65 years (at least 1 year after PCV13 and at least 5 years after the most recent dose of PPSV23)

For further information:

http://www.cdc.gov/vaccines/ schedules

Screen for HCC in HBV Patients if:

- ▶ Cirrhosis
- ▶ Asian female > 50
- ► Asian or Black man > 40
- ► First-degree family history HCC
- Additional diagnosis of NASH
- ► Co-infection (HCV, HDV, HIV)