Major Updates to COVID-19 Expert Panel Consensus Statement

5/4/2020

• Changed the title to match the *Hepatology* manuscript
• Edited the Overview and Rationale to acknowledge that the US is reaching the peak or past the peak in many communities
• Added to data on serological testing
• Briefly described a recent publication from the *American Journal of Transplantation* about 90 solid organ transplant recipients with COVID-19
• Included recommendations from the recent NIH COVID-19 Treatment Guidelines
• Discussed recently released results of trials and the FDA’s Emergency Use Authorization of remdesivir
• Added a new section titled "Reentry and Return to a Pre-Pandemic State" – this section will be further developed in future updates

4/16/2020

• Emerging data suggest that patients with NAFLD may be at higher risk for COVID-19
• Patients with chronic liver disease and transplant recipients are potentially at increased risk for severe COVID-19 until further data become available
• Consider etiologies unrelated to COVID-19, including other viruses such as hepatitis A, B, and C when assessing patients with COVID-19 and elevated liver biochemistries
  o Updated Figure 1
• Proceed with treatment of hepatitis B and C in patients without COVID-19 as clinically warranted
• Initiating treatment of hepatitis B in a patient with COVID-19 is not routinely warranted but should be considered if there is clinical suspicion of a hepatitis B flare or when initiating immunosuppressive therapy
• Initiating treatment of hepatitis C in a patient with COVID-19 is not routinely warranted
• Consider the following issues in hospitals with a high prevalence of COVID-19:
  o The risk of nosocomial transmission during the transplant admission
  o Difficulty obtaining procedures or other resources when complications arise
  o Limitations on family/caregiver visitation for a postoperative period that often relies on the engagement of caregivers
• Due to cancelations of elective/non-urgent endoscopy:
  o Consider, in the interim, primary prophylaxis with beta blocker therapy for patients with clinically significant portal hypertension or high risk of decompensation
• Data suggest that a surgical mask worn by infected individuals may reduce the risk of transmission (source control)
  o All healthcare workers should wear a surgical mask in patient care settings
4/7/2020

- New sections
  - Diagnosis of SARS-CoV-2 Infection
  - COVID-19 Liver Disease/Transplant Registries
- New tables
  - Diagnostic Methods for SARS-CoV-2 Detection
  - Investigational Treatments for COVID-19
- New figures
  - Approach to the Patient with COVID-19 and Elevated Serum Liver Biochemistries
  - Approach to Liver Transplant Organ Offers
  - Approach to the Liver Transplant Recipient with COVID-19
- Expanded “What We Know” sections
- Added virology of SARS-CoV-2
- Added liver histology in COVID-19
- Expanded COVID-19 symptoms for screening: sore throat, diarrhea, new loss of sense of taste or smell
- Expanded complications of COVID-19 complications when evaluating patients with elevated liver tests: myositis, cytokine release syndrome, ischemia/hypotension, DILI
- Clarified recommendations for treatment of patients with liver disease
  - Recommend continue treatment for hepatitis B or C
  - Consider delaying initiation of hepatitis C treatment
  - Removed specific prednisone 10 mg recommendation to avoid confusion when tapering high-dose prednisone in patients with COVID-19
  - Recommend initiating immunosuppressive therapy in patients with liver disease with or without COVID-19 who have strong indications for treatment (e.g., autoimmune hepatitis, graft rejection)
- Clarified recommendations for monitoring patients with HCC and surveillance of patients at risk for HCC
- Expanded section on Medication Management of Patients with COVID-19 to include new information about investigational agents
- Revised PPE recommendations for endoscopic procedures to include N95 masks