

## Management of Pregnant Women with Chronic Hepatitis B Virus (HBV) Infection

### During Pregnancy:

1. Test all women for HBsAg anytime during pregnancy
2. For those women who are known to have chronic HBV (HBsAg-positive), perform liver function test (LFT) panel, AFP and HBV DNA once at any time during pregnancy
  - a. If HBV DNA is > 2,000 IU/ml and ALT or AST are elevated, refer to Liver Clinic for a consult regarding management
  - b. If AFP is above the normal range for pregnant women by gestational age, order liver ultrasound and refer to Liver Clinic (See Appendix 1: Bredaki et al Figure 1, below)
3. If HBV DNA is > 200,000 IU/ml and ALT is WNL, start the patient on tenofovir 300 mg/day during the 3<sup>rd</sup> trimester and continue for 4-6 weeks post-partum to ensure transmission to newborn
  - a. In addition, make sure the newborn receives HBIG and hepatitis B vaccine as soon after birth as is possible, preferably in the delivery room

### Post-Partum Care:

1. Perform HBV DNA and LFT at post-partum visit. If ALT is elevated and/or HBV DNA is > 2,000 IU/ml, refer to Liver Clinic
2. Encourage patient to respond to Liver Clinic Reminder letters which are sent every 6 months reminding chronic Hepatitis B patients to have LFT, HBV DNA and AFP testing performed by going to their primary care provider to order and draw their blood.

## References:

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Terrault NA, Lok ASF, McMahon BJ, Chang KM, Hwang JP, Jonas MM, Brown RS Jr, Bzowej NH, Wong JB. Update on prevention, diagnosis, and treatment of chronic hepatitis B: AASLD 2018 hepatitis B guidance. *Hepatology*. 2018 Apr;67(4):1560-1599.

Bredaki FE, Sciorio C, Wright A, Wright D, Nicolaidis KH. Serum alpha-fetoprotein in the three trimesters of pregnancy: effects of maternal characteristics and medical history. *Ultrasound Obstet Gynecol*. 2015 Jul;46(1):34-41.

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Appendix 1: Bredaki et al Figure 1

Figure 1 Relationship between median (95% CI) levels of serum alpha-fetoprotein (AFP) concentration and gestational age across three trimesters of pregnancy.

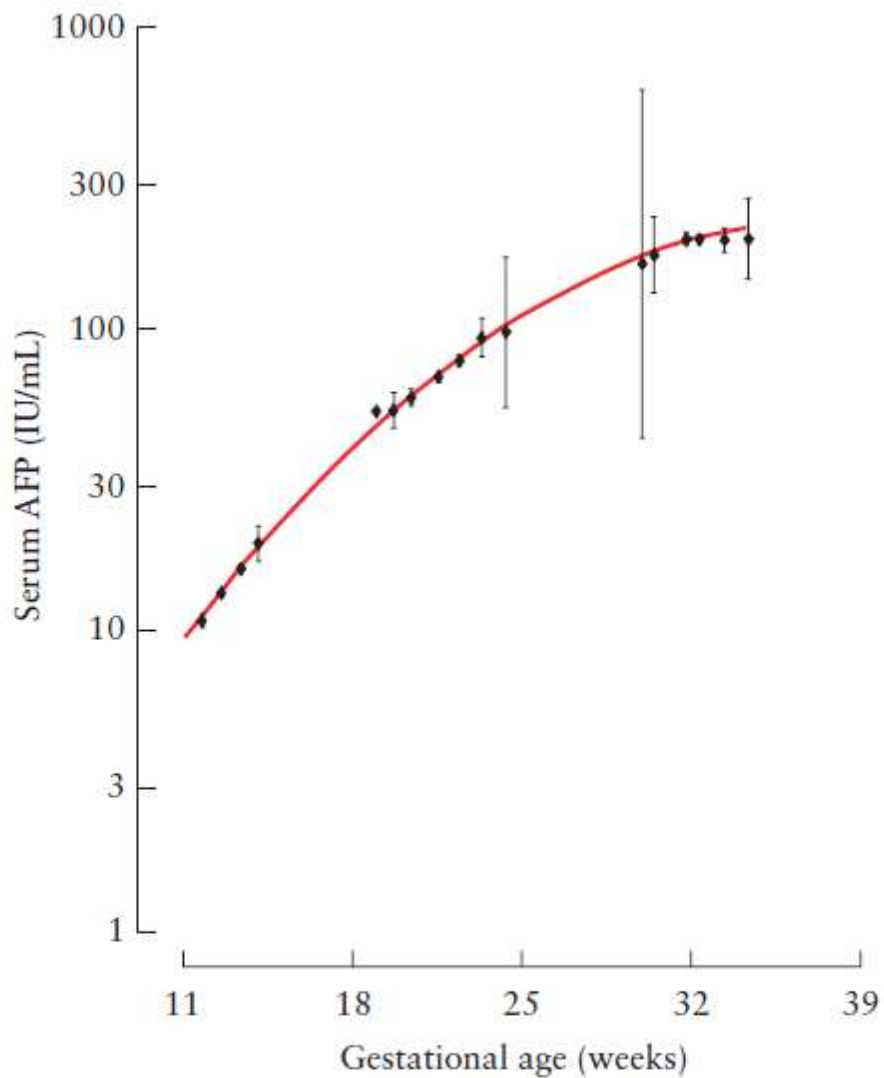


Figure 1 Relationship between median (95% CI) levels of serum alpha-fetoprotein (AFP) concentration and gestational age across three trimesters of pregnancy.