

UAMS MEDICAL CENTER
TRAUMA and CRITICAL CARE SERVICES MANUAL

SUBJECT: Post Splenectomy Vaccines

SUPERSEDES: New

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RECOMMENDATION(S): Ron Robertson, MD

APPROVAL: 11/7/2019

CONCURRENCE(S): All

EFFECTIVE: 11/7/2019

PURPOSE:

To provide guidelines for the appropriate administration of post splenectomy vaccinations.

GUIDELINE:

Indications:

- All patients status post-splenectomy
- All patients with < 50% perfused spleen

Medications:

- Pneumococcal vaccine, PCV13 (Pevnar-13) - 0.5mL IM
- *Hemophilus b* conjugate vaccine (ActHIB/Hiberix/PedvaxHIB) - 0.5mL IM
- Meningococcal conjugate vaccine, MenACWY (Menactra/Menveo) - 0.5mL IM
- Meningococcal Group B vaccine, Bexsero – 0.5 ml IM

Procedure:

Vaccinations should be administered the day prior to discharge.

All patients should have the problem list in epic updated to reflect this status by adding the diagnosis of asplenia.

Education: All patients with splenectomy need to be informed of their operation, the risk and signs/symptoms of developing Overwhelming Post-Splenectomy Infection (OPSI) via physician to patient discussion. Eight weeks after doses given (prior to discharge), the patient will need a second set of vaccinations: one dose of MenACWY (Menactra/Menveo), one dose of MenB, and one dose of pneumococcal PPSV23 (Pneumovax). Revaccination of Pneumovax is recommended in 5 years and once the patient reaches age 65 (if administered before age 65)⁶. Revaccination of MenACWY is needed every 5 years thereafter. Patients should be instructed to follow-up with their primary care physician for this assessment.⁵ An information card should be completed with the dates of the vaccinations and given to the patient.

Bibliography:

1. Shatz DV, Romero-Steiner S, Elie CM, et al. Antibody responses in postsplenectomy trauma patients receiving the 23-valent pneumococcal polysaccharide vaccine at 14 versus 28 days postoperatively. *J Trauma* 2002; 53(6): 1037-42.

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2. Shatz DV. Vaccination practices among North American trauma surgeons in Splenectomy after trauma. *J Trauma* 2002; 53: 950-956.
3. Taylor MD, Genuit T, Napolitano LM. Overwhelming postsplenectomy sepsis and trauma: Time to consider revaccination? *J Trauma* 2005; 59: 1482-1485
4. Shatz DV, Schinsky M, Pais L, et al. Immune responses of splenectomized trauma patients to the 23-valent pneumococcal polysaccharide vaccine at 1 versus 7 versus 14 days after Splenectomy (RCT). *J Trauma* 1998; 44: 760-765.
5. Epidemiology and prevention of vaccine-preventable diseases. The Pink Book, 13th ed. Chapters 14 and 17, US Department of Health and Human Services Center for Disease Control and Prevention; April 2015.
6. Immunization Action Coalition. Vaccinations for Adults without a Spleen. www.vaccineinformation.org; June 2018.