SPLENECTOMY VACCINATION GUIDELINE

Indications:
• All patients status post splenectomy

In-hospital vaccination protocol: 
   Administer vaccination on the day of discharge or day 14, whichever comes first
   • Pneumococcal 13-valent conjugate (PCV13 – Prevnar 13) 0.5 mL IM
   • Haemophilus influenza type b vaccine (Hib - ActHIB) 0.5 mL IM
   • Meningococcal vaccine (Menactra) 0.5 mL IM
   • Meningococcal serogroup B (Bexsero) 0.5 mL IM

Follow-up vaccinations needed:
   2 month follow up after the initial vaccination
   • Pneumococcal polysaccharide (PPSV23 – Pneumovax 23) 0.5 mL IM
   • Meningococcal vaccine 0.5 mL IM
   • Meningococcal serogroup B 0.5 mL IM (> 1 month after first dose)

Long-term follow up
• Pneumococcal polysaccharide 0.5 mL IM 5 years after the first dose of this vaccine
• Meningococcal vaccine 0.5 mL IM recommended every 5 years
• No additional haemophilus vaccine is needed
• Seasonal influenza vaccine is indicated annually

Exceptions:
• Vaccinations should be administered at the designated time unless actively on vasopressors, steroids, or undergoing a major procedure likely to reduce the ability of the immune system to respond to the vaccine appropriately.
• Patients who have received the Pneumovax 23 vaccine in the past year should wait at least 1 year to receive the Prevnar 13 vaccine, followed by a second Pneumovax 23 vaccine at least 8 weeks later.
• If 2 doses of the Pneumovax 23 vaccine have been given in the past year, Prevnar 13 should be given 1 year after the last Pneumovax 23.
• If Prevnar 13 has been given to the patient previously, a Pneumovax 23 dose may be given 8 weeks after Prevnar 13.

Rationale:
• Post-splenectomy patients are at risk of rapidly-progressing sepsis due to IgG-coated bacteria and encapsulated organisms. Although relatively rare, this rapidly-progressing sepsis is associated with a high mortality rate. The above recommended vaccines specifically target such causative organisms.
• Vaccinations should be administered at 14 days post injury or prior to discharge from the hospital, whichever comes first. This duration is chosen based on guidelines and in an attempt to achieve the highest initial vaccination compliance rate.
• Suggest implementation of “Medi-Alert” bracelet literature for post-splenectomy patients.

References:


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Bradley Dennis, MD
Oscar Guillamondegui, MD
Susan Hamblin, PharmD