

A Quick Look at Using *Haemophilus Influenzae* type b (Hib)

Age Indications for Hib Vaccines (no doses prior to age 6 weeks)

ActHIB® (sanofi pasteur): for ages 2 months and older
 PedvaxHib® (Merck): for ages 2 months and older
 Hiberix® (GlaxoSmithKline): for ages 2 months and older

Routine Schedule (For best protection, follow this schedule)

- ActHIB® & Hiberix® (4-dose series): a 3-dose primary series at 2, 4, 6 months & booster dose at 12-15 months
- PedvaxHib® (3-dose series): a 2-dose primary series at 2, 4 months & booster at 12-15 months

Make sure minimum intervals are met:

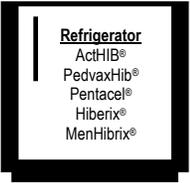
- 4 weeks between primary series doses
- 8 weeks between booster dose and previous dose

Vaccine Administration

- Intramuscular (IM) injection in anterolateral thigh or deltoid of the arm
- 1 inch needle; 22-25 gauge
- Professional judgment is appropriate when selecting needle length & site
- Can be given with other vaccines, at the same visit

Storage and Handling

- Store in the refrigerator between 35°-46°F (2°-8°C)
- Do NOT freeze & keep in the original box
- Protect Hiberix & MenHibrix® from light
- Reconstitute ActHIB, Pentacel, Hiberix & MenHibrix® with packaged diluent prior to use; see Further Points for additional information



Vaccination of Persons with High-Risk Conditions:

- Children aged 12 through 59 months at high risk for Hib disease are: asplenic (including sickle cell disease), chemotherapy recipients or who have immunoglobulin deficiency, complement component deficiencies, or HIV
 - If no doses or only 1 dose of Hib vaccine given before 12 months of age, give 2 doses of Hib vaccine separated by 8 weeks
 - If 2 or more doses of Hib vaccine given before 12 months of age, give 1 dose of Hib vaccine 8 weeks later
- If no history of at least one previous Hib dose, for persons:
 - Aged 15 months or older who are having elective splenectomy, give 1 dose of Hib vaccine at least 14 days prior to surgery
 - Aged 5 years & older who are asplenic (including sickle cell disease), give 1 dose of Hib vaccine
 - Aged 5 through 18 years who have HIV infection, give 1 dose of Hib vaccine
 - Note: Due to low risk of Hib infection, adults aged 19 years & older with HIV are not recommended for Hib vaccine
- For children 5 years or younger, if Hib vaccine dose(s) received within 14 days of the start of or during chemotherapy/radiation treatment, repeat doses(s) at least 3 months after therapy completion
- Persons who have had hematopoietic stem cell transplant (HSCT), regardless of their Hib vaccine history, should be revaccinated with 3 doses of Hib vaccine, 6 to 12 months after successful transplant; doses should be at least 4 weeks apart

Contraindications:

- An anaphylactic (severe allergic) reaction to a prior dose or a component of Hib vaccine

Precautions:

- Moderate or severe acute illness with or without fever

Further Points:

- If PedvaxHib is given for both primary series doses (2 doses administered before age 12 months), follow the 3-dose schedule
- If at least one of the primary series doses is given using ActHIB, Hiberix, Pentacel or MenHibrix, follow the 4-dose schedule
- Any Hib brand (PedvaxHib, Hiberix, ActHIB or Pentacel®) can then be used for the booster dose (at/after age 12 months)
- Hib vaccine is not routinely given once a child is age 5 years (after age 59 months)
- If not used, discard reconstituted Pentacel & MenHibrix within 30 minutes and ActHIB & Hiberix by the end of clinic day
- MenHibrix (Hib-MenCY) is intended for infants 6 weeks through 18 months who are at risk for meningococcal disease and need routine Hib vaccine. For further information on Hib-MenCY risk groups, vaccine schedule and catch-up guidance, refer to footnote #1
- For best protection, children should receive either 3 or 4 doses of Hib vaccine (based on brand) beginning at age 2 months¹
- For children whose 1st dose of Hib is delayed (not given at age 2 months), refer to the table below for number of doses and intervals¹

Vaccine	Age at 1 st Dose	Primary Series	Booster Dose
ActHIB & Hiberix 4-dose series Note: Hib component of Pentacel® (DTaP-IPV/Hib)	2-6 months	3 doses, 2 months apart	at 12-15 months*
	7-11 months	2 doses, 2 months apart	at 12-15 months*
	12-14 months	1 dose	2 months later
	15-59 months	1 dose	-----
PedvaxHib 3-dose series	2-6 months	2 doses, 2 months apart	at 12-15 months*
	7-11 months	2 doses, 2 months apart	at 12-15 months*
	12-14 months	1 dose	2 months later
	15-59 months	1 dose	-----

*at least 2 months after previous dose

- There is a Hib-only Vaccine Information Statement (VIS), including information about the Michigan Care Improvement Registry (MCIR); VISs are available at www.michigan.gov/immunize or your local health department
- Document as Hib (ActHib/Hiberix) or Hib (PedvaxHIB) in MCIR and on vaccine administration record & immunization record card

¹ "Recommended Immunization Schedule for Persons aged 0 through 18 years and Catch-Up Schedule" at <http://www.cdc.gov/vaccines>