

Know the Hib Schedule

Quick Reference Guide #106

Hib vaccine is recommended for routine administration to children aged 2 months through 4 years of age (59 months of age).

This means up to the fifth birthday. Previously unvaccinated children aged ≥60 months (5 years and older) who are not high-risk for Hib disease generally are immune to Hib disease and do not require vaccination or catch-up vaccination. Hib disease is uncommon in adults and children aged 5 years and older. For information on the use of Hib vaccine for children and adults considered high-risk for Hib disease refer to the ACIP Recommendations at: <http://www.cdc.gov/mmwr/pdf/rr/rr6301.pdf>.

Two basic types of Hib vaccines:

- 1) PRP-T is in ActHIB® and Pentacel®;
- 2) PRP-OMP is in PedvaxHIB®.

Combination Vaccine Containing Hib vaccine:

Pentacel - contains ActHIB + DTaP + IPV and may be used if the child needs all of these vaccines.

The number of doses in the Hib primary series depends on the type or brand of Hib vaccine used.

Hib Vaccine Schedules

1) All PedvaxHib Schedule:

A primary series of **PedvaxHib is two doses** at 2 and 4 months of age. A dose is not needed at 6 months. A booster dose is due at 12-15 months.

2) All ActHib or Pentacel Schedule:

A primary series of **ActHib or Pentacel (DTaP-IPV/Hib combined) is three doses** at 2, 4, and 6 months of age. A dose is needed at 6 months. A booster dose is due at 12-15 months.

3) Schedule with Both Types of Hib Vaccine or a Mixed Schedule:

If a child receives one type of Hib vaccine at 2 months and the other type at 4 months, the primary series is **three doses** and the child needs a dose at 6 months of age. The third dose may be ActHib, Pentacel, or PedvaxHib depending on which vaccine you have available and the other vaccines the child needs. All licensed Hib vaccines may be used interchangeably. A booster dose is due at 12-15 months.

4) Schedule when an unknown type of Hib vaccine is given at 2 or 4 months:

If you do not know what type of Hib vaccine the child received at 2 or 4 months of age, the primary series is **three doses with a** dose at 6 months of age. The third dose may be ActHib, Pentacel, or PedvaxHib depending on which vaccine you have available and the other vaccines the child needs. A booster dose is due at 12-15 months.

Any licensed Hib vaccine may be used for the booster dose, including Hiberix. Hiberix is licensed for the booster (final) dose in the Hib series.

Know the Hib Schedule	Primary Series			Booster	Total Doses
	2 months	4 months	6 months	12-15 months	
All PedvaxHib Schedule	PedvaxHib	PedvaxHib	None needed	PedvaxHib, ActHib, or Hiberix,	3
All ActHib or Pentacel Schedule	ActHib or Pentacel	ActHib or Pentacel	ActHib or Pentacel		4
Schedule if type of Hib vaccine is unknown	Unknown type	Unknown type	Any type is acceptable		4
Schedule if any combination of Hib vaccines is used, in any order	All Hib vaccines may be used interchangeably for the primary series and booster dose; however, <u>3 doses must be given for the primary series if more than one type of Hib vaccine is used</u> . For example, if ActHIB is used for the 1st dose and PedvaxHib is used for the 2nd dose, then a dose must be given at 6 months.				4

Hib vaccine should never be given before 6 weeks of age. A dose given before 6 weeks of age may lead to a reduced immune response to subsequent doses.

Hib Schedules

Recommended Hib Vaccination Schedules - Hib vaccines should never be given before 6 weeks of age. A dose given before 6 weeks of age may lead to a reduced immune response to subsequent doses.

Age	2 months	4 months	6 months	12-15 months
Vaccine	Primary Series			Boosters
ActHIB/Pentacel	Dose 1	Dose 2	Dose 3	Booster
PedvaxHIB	Dose 1	Dose 2	None	Booster
Hiberix	<u>Do Not</u> use Hiberix at 2,4, or 6 months of age			Booster

Minimum Age for First Dose and Minimum Intervals between Doses

Vaccine	Minimum Age for First dose	Minimum Interval from Dose 1 to 2	Minimum interval from Dose 2 to 3	Minimum interval from Dose 3 to 4
ActHIB	6 weeks	4 weeks	4 weeks	8 weeks and not before 12 mos. of age
PedvaxHIB	6 weeks	4 weeks	8 weeks and not before 12 mos. of age	
Hiberix	12 mos.	8 weeks and not before 12 mos. of age		

Hib Vaccination Schedules Based on Age at First Dose - Children starting late may not need the entire 3 or 4 dose series depending on their age when the series is started – see the table below. Booster doses can be any Hib vaccine regardless of the brand used for the primary series.

Vaccine	Age in Months at 1 st dose	Primary Series	Booster
ActHIB	2-6	3 doses 2 mos. apart	12-15 mos.
	7-11	2 doses, 2 mos. apart	12-15 mos.
	12-14	1 dose	2 mos. later
	15-59	1 dose	None
PedvaxHIB	2-6	2 doses, 2 mos. apart	12-15 mos.
	7-11	2 doses, 2 mos. apart	12-15 mos.
	12-14	1 dose	2 mos. later
	15-59	1 dose	None

Hib Vaccination Schedule for Children Who Start and Then Do Not Come Back on Time - Lapsed Series

Child's Current Age in Months	Number of Previous Doses	Doses Needed to Complete the Series
7-11	1 dose of any Hib conjugate vaccine	1 dose at 7 –11 months, booster at least 8 weeks later at 12 –15 months
7-11	2 doses ActHIB *	1 dose at 7 –11 months, booster at least 8 weeks later at 12 –15 months
12 -14	2 doses of any Hib vaccine before 12 months	1 dose of any licensed Hib vaccine
12 –14	1 dose of any Hib vaccine before 12 months	2 doses of any licensed Hib vaccine separated by at least 8 weeks
15 –59	Any incomplete schedule including no prior doses	1 dose of any licensed Hib vaccine

*A child who is 7 – 11 months of age and has received 2 prior doses of PedvaxHIB is current until 12 months of age when the booster dose is due.

Previously unvaccinated children aged ≥60 months (fifth birthday) who are not considered high-risk generally are immune to Hib diseases and do not require catch-up vaccination.

For further information refer to the ACIP Recommendations at: <http://www.cdc.gov/mmwr/pdf/rr/rr6301.pdf>.