

NH Immunization Program Pentacel Conference Call

Join the NH Immunization Program for a conference call at one of these times.

Wednesday, November 5, 2008: 12 noon – 1:00p.m.

Thursday, November 6, 2008: 8:30 a.m. – 9:00 a.m.

Call in number: 1-866-304-8625

Conference code number: 6032714477

Or call us anytime at 800-852-3345 x4482 or 603-271-4482

Pentacel[®]: Fact Sheet for Clinical Staff

- **Pentacel** is a 5 in 1 pediatric combination vaccine for diphtheria, tetanus, pertussis, poliomyelitis, and *Haemophilus influenzae* type b (DTaP, IPV, Hib).
- **Pentacel is approved** for 6 weeks of age up through 4 years of age (Prior to 5th birthday).
- **Pentacel recommended schedule** is 2 months, 4 months, 6 months, and 15-18 months.
- **The minimum intervals: minimum age is** 6 weeks for dose 1, minimum age for dose 2 is 10 weeks with 4 weeks between doses 1 and 2; the minimum age for dose 3 is 14 weeks with 4 weeks between doses 2 and 3. The fourth dose must be administered a minimum of 6 months after dose 3 and the child must be at least 12 months of age or older.
- **The fourth dose of Pentacel is presently being withheld due to the current Hib vaccine shortage.** A dose of DTaP should be administered in place of the fourth Pentacel dose at 15-18 months until further notice.
- **Pentacel may be given** with routinely recommended vaccines. Different injection sites should be used.
- **Pentacel may be used to complete a primary series begun** with Pediarix or individual DTaP, Polio (IPV) and *Haemophilus influenzae* type b (Hib) vaccines.
- **A child who begins the series with Pentacel** may change to Pediarix or individual DTaP, IPV and Hib vaccines.
- **Clinical studies of Pentacel have shown comparable** antibody response to Daptacel (DTaP), ActHIB[®] and IPV vaccines.
- **Safety: Most common local and systemic adverse reactions** included redness, swelling, or tenderness at the injection site; fever, fussiness and crying.
- **Contraindications:** any known systemic hypersensitivity or a life-threatening reaction to any component of Pentacel vaccine after previous vaccines with the same components of DTaP, IPV or Hib. History of encephalopathy within 7 days of a previous dose of any pertussis-containing vaccine. Progressive neurological disorder, including infantile spasms, uncontrolled epilepsy, or progressive encephalopathy. If Guillain-Barré syndrome occurred within 6 weeks of a previous vaccine containing tetanus toxoid, withholding the Pentacel vaccine should be considered.

How Supplied: Packaging and Mixing:

- **Pentacel** is packaged in a box of 5 doses with 2 vials for each dose.
- The box will contain 5 single vials of DTaP/IPV liquid and 5 single vials of ActHIB powder.
- DO NOT use individually.

Storage:

- Store at 2-8° C (35-46°F).
- Do Not Freeze.
- Do not use after expiration.
- Label vaccine well.
- To prevent errors do not remove Pentacel vials from box. Physically separate Pentacel from Pediarix in the refrigerator.

To Reconstitute:

- Gently shake the DTaP/IPV liquid.
- Withdraw the DTaP/IPV liquid with a syringe.
- Inject liquid into the vial with ActHIB powder.
- Gently shake vial thoroughly.
- Immediately withdraw 0.5 mL of Pentacel vaccine and administer.

Administration:

- Pentacel should be administered immediately after reconstitution.
- For infants <12 months administer Pentacel intramuscularly (IM) into the anterolateral aspect of the thigh.
- For older children the deltoid muscle may be used.

Vaccine Information Statement:

- Explain: Pentacel is a new vaccine containing 5 vaccines against 5 vaccine preventable diseases. This means their child will receive less shots to complete their immunizations by the age of 24 months.
- Use the multi-vaccine Vaccine Information Statement (VIS) "Your Baby's First Vaccines," January 30, 2008.
- OR use individual VISs for DTaP, Polio and *Haemophilus influenzae* type b.

Documentation of Pentacel® administration:

- There are two different lot numbers needed to document Pentacel®. The lot number on the Pentacel box and the ActHIB powder vial are the same. The other lot number is located on the DTaP/IPV liquid vial. Both lot numbers need to be documented for every dose given.
- Document Pentacel (with both lot numbers) under each individual vaccine i.e. DTaP, IPV and Hib.

Developed by Department of Health and Human Services, Division of Public Health Services,
New Hampshire Immunization Program (NHIP):08/05/08

Above information revised from literature by **sanofi pasteur**, the vaccines division of sanofi-aventis group.

Examples of Schedules Using Pentacel and/or Pediarix for Healthy Children* During the Hib Shortage

The first two tables below provide examples of how to introduce Pentacel in your practice using two different schedules. The second two tables review the schedules for the single antigen and Pediarix series for Hep B, IPV, Hib and DTaP.

Schedule for Hep B, Hib*, IPV, and DTaP Using Pentacel for All Doses

Birth	2 mos.	4 mos.	6 mos	15-18 mos	4-6 years
Hep B	Hep B		Hep B		
				DTaP	DTaP
					IPV
	Pentacel	Pentacel	Pentacel		

Schedule for Hep B, Hib*, IPV, and DTaP Using Pentacel For First Dose Only and Pediarix for Remainder of Doses

Birth	2 mos.	4 mos.	6 mos	15-18 mos	4-6 years
Hep B	Hep B				
		Hib	Hib		
				DTaP	DTaP
					IPV
	Pentacel				
		Pediarix	Pediarix		

Schedule for Hep B, Hib*, DTaP and IPV Without Pentacel or Pediarix

Birth	2 mos.	4 mos.	6 mos	15-18 mos	4-6 years
Hep B	Hep B		Hep B		
	Hib	Hib	Hib		
	DTaP	DTaP	DTaP	DTaP	DTaP
	IPV	IPV	IPV		IPV

Schedule for Hep B, Hib*, IPV, and DTaP Using Pediarix Only (No Pentacel)

Birth	2 mos.	4 mos.	6 mos	15-18 mos	4-6 years
Hep B					
	Hib	Hib	Hib		
				DTaP	DTaP
					IPV
	Pediarix	Pediarix	Pediarix		

Pentacel contains DTaP, IPV and Hib. Pediarix contains DTaP, IPV, and Hep B Neither Pentacel nor Pediarix should be used prior to 6 weeks of age. In general ACIP recommends the same brand of DTaP be used for all doses of the series. However, different brands can be used if the provider does not know or have available the brand of DTaP used for prior doses.

*When supplies are sufficient an additional dose of Hib vaccine (single antigen or as part of a combination vaccine) is recommended for healthy children at 12 through 15 months of age (at least 2 months after the prior dose). Either Pentacel or single antigen Hib vaccine may be used at 12 through 15 months of age for children who are at increased risk of Hib disease or who have not completed a complete primary Hib schedule. If Pentacel is administered at 12 through 15 months of age a dose of DTaP at 15 through 18 months of age is not needed. See *MMWR* 2007;56(No.50):1318-1320 for additional details.

Questions or comments on this document should be directed to the New Hampshire Immunization Program at 603-271-4482, 1-800-852-3345 Ext. 4482, immunization@dhhs.state.nh.us, or to CDC by e-mail at nipinfo@cdc.gov.