

Guidance for Vaccinating Children during the 2015-16 Pentacel[®] Shortage

Providers should continue to follow the recommended immunization schedule and ensure that patients receive all recommended doses of DTaP, Hib, and polio vaccines.

The childhood schedule can be completed using single component DTaP, IPV, and Hib vaccines or other combination vaccines such as Pediarix (DTaP-IPV/Hib).

There is a sufficient supply of DTaP, IPV, Hib and DTaP-IPV/Hib vaccines to meet the anticipated demand.

Considerations when changing vaccine products:

- The Advisory Committee on Immunization Practices (ACIP) recommends using the same brand of vaccine for all doses of a vaccination series, when feasible. *If providers do not know or do not have available the brand of vaccine previously administered, another brand may be used.*
- Hib vaccines are interchangeable. When switching to PedvaxHIB after starting a series with Pentacel a total of four doses should be given, since the Hib vaccine component in Pentacel is licensed as a four-dose series.

Available Vaccines to Use in Place of Pentacel

Vaccine	Use for
DTaP (Infanrix, Daptacel)	Any dose in the 5-dose series for children 6 weeks through 6 years of age
DTaP/IPV/HepB (Pediarix)	Doses 1, 2, and 3 of DTaP and IPV; any dose of HepB for children
IPV (IPOL)	Any dose in the polio series for persons 6 weeks of age and older
DTaP/IPV (Kinrix)	Dose 5 of DTaP and dose 4 of IPV for children 4 through 6 years of age. Do not use for doses 1 through 3 of DTaP and IPV or dose 4 of DTaP
HepB (Engerix-B, Recombivax HB)	Any dose in the HepB series for children at birth and older
Hib (ActHIB, PedvaxHIB)	Any dose in the Hib series for children 6 weeks through 4 years of age
Hib (Hiberix)	Last dose of the Hib series in children 12 months of age and older.

References

Recommended Immunization Schedule for Persons 0 through 18 Years of Age

<http://www.cdc.gov/vaccines/schedules/downloads/child/0-18yrs-child-combined-schedule.pdf>

Advisory Committee on Immunization Practices General Recommendations on Immunization

<http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf>

Epidemiology and Prevention of Vaccine-Preventable Diseases “Pink Book” 13th Edition

<http://www.cdc.gov/vaccines/pubs/pinkbook/index.html>

Sample schedules to complete the childhood series started with 1 or more doses of Pentacel

1 prior dose of Pentacel

Birth	2 months	4 months	6 months	12-15 months	15-18 months	4-6 years
HepB	HepB (1-2 mos.)		HepB			
	Pentacel	DTaP	DTaP	DTaP*		DTaP
		Hib	Hib	Hib		
		IPV	IPV			IPV
	PCV13	PCV13	PCV13	PCV13		
	RV	RV	RV			
				MMR		ProQuad (MMRV)
				Varicella		
				12-23 mos. HepA #1		2 nd dose 6-12 mos. after 1st
			Influenza (2 doses 4 weeks apart if receiving flu vaccine for the first time)			

2 prior doses of Pentacel

Birth	2 months	4 months	6 months	12-15 months	15-18 months	4-6 years
HepB	HepB (1-2 mos.)		HepB			
	Pentacel	Pentacel	DTaP	DTaP*		DTaP
			Hib	Hib		
			IPV			IPV
	PCV13	PCV13	PCV13	PCV13		
	RV	RV	RV			
				MMR		ProQuad (MMRV)
				Varicella		
				12-23 mos. HepA #1		2 nd dose 6-12 mos. after 1st
			Influenza (2 doses 4 weeks apart if receiving flu vaccine for the first time)			

3 prior doses of Pentacel

Birth	2 months	4 months	6 months	12-15 months	15-18 months	4-6 years
HepB	HepB (1-2 mos.)		HepB			
	Pentacel	Pentacel	Pentacel	DTaP*		DTaP
				Hib		
				IPV		
	PCV13	PCV13	PCV13	PCV13		
	RV	RV	RV			
				MMR		ProQuad (MMRV)
				Varicella		
				12-23 mos. HepA #1		2 nd dose 6-12 mos. after 1st
			Influenza (2 doses 4 weeks apart if receiving flu vaccine for the first time)			

*The 4th dose of DTaP can be given as early as 12 months of age, provided at least 6 months have elapsed since the 3rd dose. This is an Advisory Committee on Immunization Practices (ACIP) off-label recommendation.

**Sample Schedules to complete the childhood series started with Pentacel Using
Pediarix (DTaP-IPV-HepB) and Hib Vaccines**

1 prior dose of Pentacel

Birth	2 months	4 months	6 months	12-15 mos.	15-18 mos.	4-6 years
HepB	HepB (1-2 mos.)	Pediarix (DTaP- HepB-IPV)	Pediarix** (DTaP-HepB- IPV)	DTaP*		Kinrix (DTaP IPV)
	Pentacel					
		Hib	Hib	Hib		
	PCV13	PCV13	PCV13	PCV13		
	RV	RV	RV			
				MMR		ProQuad (MMRV)
				Varicella		
				12-23 mos. HepA #1		2nd dose 6-12 mos. after 1st
			Influenza (2 doses 4 weeks apart if receiving flu vaccine for the first time)			

2 prior doses of Pentacel

Birth	2 months	4 months	6 months	12-15 months	15-18 months	4-6 years
HepB	HepB (1-2 mos.)	Pentacel	Pediarix (DTaP-HepB- IPV)	DTaP*		Kinrix (DTaP IPV)
	Pentacel					
			Hib	Hib		
	PCV13	PCV13	PCV13	PCV13		
	RV	RV	RV			
				MMR		ProQuad (MMRV)
				Varicella		
				12-23 mos. HepA #1		2nd dose 6-12 mos. after 1st
			Influenza (2 doses 4 weeks apart if receiving flu vaccine for the first time)			

3 prior doses of Pentacel

Birth	2 months	4 months	6 months	12-15 months	15-18 months	4-6 years
HepB	HepB (1-2 mos.)		HepB			
	Pentacel	Pentacel	Pentacel	DTaP*		DTaP
				Hib		
	PCV13	PCV13	PCV13	PCV13		
	RV	RV	RV			
				MMR		ProQuad (MMRV)
				Varicella		
				12-23 mos. HepA #1		2nd dose 6-12 mos. after 1st
			Influenza (2 doses 4 weeks apart if receiving flu vaccine for the first time)			

* The 4th dose of DTaP can be given as early as 12 months of age, provided at least 6 months have elapsed since the 3rd dose. This is an ACIP off-label recommendation.

**Administration of a 4th dose of HepB vaccine is permissible when a combination vaccine containing HepB is given after the birth dose.

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