



Mississippi Morbidity Report

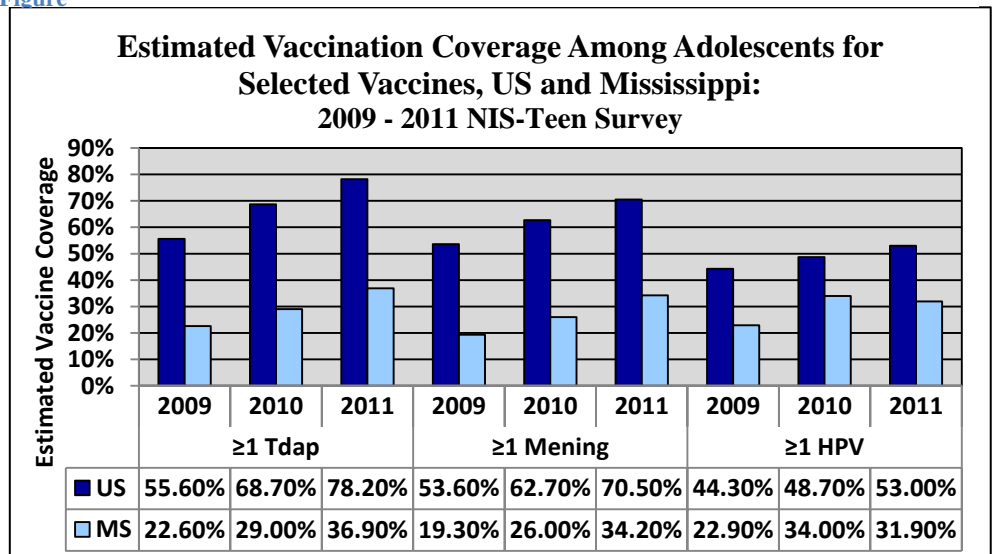
School Immunization Requirements, 2012-2013 School Year

Introduction: The list of immunizations required for school entry and child care entry is specified by the State Health Officer and is promulgated at least annually as directed by state statute (§ 41-23-37, Mississippi Code of 1972). All vaccines are to be given at the appropriate age and intervals according to the Advisory Committee on Immunization Practices (ACIP) recommendations. The following report discusses pertussis activity, outlines the Mississippi State Department of Health (MSDH) Medical Exemption Policy for vaccine exemptions, and provides the school entry and child care entry requirements for the 2012-2013 school year, to include the new Tdap requirement for the 7th grade.

Increased Pertussis Activity in the US and Tdap Requirement: The number of reported cases of pertussis, both in the US and Mississippi, has been increasing over the last several years. In 2011 there were over 18,000 cases with 13 deaths reported in the US; 11 of the deaths were in infants <1 year of age. 2012 has been a very active year for pertussis in the US so far, with more than 35,000 cases and at least 16 pertussis related deaths reported through the week ending November 10; 14 of the deaths are in children <1 year of age. Additionally, there have been a number of pertussis outbreaks in the US in 2012, primarily in Washington, Minnesota, Wisconsin and Colorado. In these outbreaks children in early adolescence (10-14 years of age) consistently account for the highest number of cases. In the Wisconsin outbreak, children 11-12 years of age who had not received Tdap were significantly more likely to have pertussis infection than those 11-12 year olds who had received Tdap. In Mississippi, there were 49 reported cases of pertussis with no deaths in 2011. As of November 20, 2012 there are 69 reported cases and one pertussis-related death in a child <1 year of age in Mississippi.

Pertussis immunity typically wanes 5-10 years after the childhood booster vaccination leaving adolescents vulnerable to infection. Adolescents can then serve as a source of infection in children <1 year of age who have not yet been completely vaccinated against pertussis. Infants are typically at the greatest risk for severe disease and death from pertussis infections. In 2005 the ACIP first recommended Tdap for all adolescents aged 11-18 years. The ACIP also recommends vaccination against meningococcal disease and human papillomavirus

Figure



(HPV) for children in this age group. Since 2006, the Centers for Disease Control and Prevention has conducted the National Immunization Survey—Teen (NIS-Teen) in order to estimate vaccine coverage for Tdap, meningococcal and human papillomavirus (HPV) in adolescents aged 13-17 years. In the most recent NIS-Teen survey for 2011 the vaccine rate for Tdap among Mississippi adolescents was about 37%. While this rate has increased from the 2010 rate of 29%, it still lags behind the US rate of 78% and is the lowest in the US. Mississippi also has some of the lowest rates in the US for meningococcal and HPV vaccination (Figure).

For the 2012-2013 school year, Mississippi joined 41 other states in instituting a requirement for Tdap among adolescents. All students entering 7th grade are required to have documentation verifying Tdap vaccination at seven years of age or older. This includes new, current and transfer students in both private and public schools. The new requirement should reduce the disease burden among adolescents and protect those children <1 year of age, as well as provide an opportunity to emphasize the need for other adolescent vaccinations.

Medical Exemption Policy: In order to enroll in any public or private kindergarten, elementary or secondary school in Mississippi, a student must provide the school with a Certificate of Immunization Compliance (Form 121) or a Certificate of Medical Exemption (Form 122). The child’s pediatrician, family physician or an internist, who must be duly licensed in the state of Mississippi, may submit a letter requesting the medical exemption for their patient to the local public health District Health Officer. The exemption will be granted unless there is a local or statewide occurrence of disease which would indicate that the exemption will cause “undue risk to the community.” The exemption expiration date will be based on the circumstances for the exemption and will be for a minimum of one school year. The full policy can be accessed at: http://msdh.ms.gov/msdhsite/_static/41,9332,71,303.html

Child Care Immunization Requirements: MSDH regulations governing the licensure of child care facilities mandate that each child in a licensed facility have immunizations according to the table shown below. Children ages 0 – 4 years of age and enrolled in licensed child care facilities are expected to be age appropriately vaccinated^a.

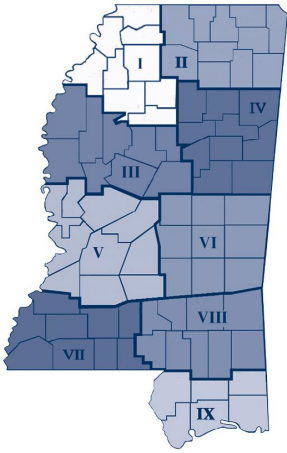
Vaccine	Range of Recommended Ages								
	Birth	1 Mo	2 Mos	4 Mos	6 Mos	12 Mos	15 Mos	18 Mos	24 Mos
Hepatitis B (HepB) ^b	#1			#2	#3				
Inactivated Polio (IPV)			#1	#2	#3				
Diphtheria, Tetanus, Pertussis (DTaP)			#1	#2	#3	#4			
<i>Haemophilus influenzae</i> type b ^c (Hib)			#1	#2	(#3) ^c	#3 or #4 ^c			
Pneumococcal ^d (PCV)			#1	#2	#3	#4			
Measles, Mumps, Rubella ^e (MMR)						#1			
Varicella ^f (VAR; aka Chickenpox)						#1			

- Children who are not up to date for age should be vaccinated following the Advisory Committee on Immunization Practices (ACIP) 2011 catch-up schedule, available at: <http://www.cdc.gov/vaccines/pubs/pinkbook/default.htm>. Where an age range for a vaccine is shown, the vaccine is NOT required until the END of the age range.
- An infant between birth and 2 months of age may receive one or more doses of Hep B vaccine.
- The number of recommended doses of Hib vaccine will vary according to the age at which a child receives the 1st dose of HIB and the type of Hib vaccine administered.
- Pneumococcal Conjugate Vaccine (PCV) is required for all children aged 0-4 years entering a child care facility, effective January 1, 2008. Children ≥5 years of age entering daycare, child care or after school care will not be required to receive PCV.
- MMR vaccine will only be waived if there is a documented physician's diagnosis of previous infection with measles, mumps and rubella disease or serological confirmation of immunity to measles, mumps and rubella.
- Varicella vaccine will be waived for evidence of past infection: including a past history of chickenpox or serologic confirmation of immunity to chickenpox.

Mississippi

Provisional Reportable Disease Statistics

October 2012



		Public Health District									State Totals*			
		I	II	III	IV	V	VI	VII	VIII	IX	Oct 2012	Oct 2011	YTD 2012	YTD 2011
Sexually Transmitted Diseases	Primary & Secondary Syphilis	2	0	1	0	7	4	0	1	1	16	24	140	157
	Early Latent Syphilis	6	0	0	1	17	1	0	2	1	28	30	223	281
	Gonorrhea	68	44	97	87	213	54	33	53	87	736	537	5,872	5,125
	Chlamydia	245	224	265	243	501	201	115	195	267	2,256	1,912	19,881	18,638
	HIV Disease	14	1	0	4	20	4	2	6	3	54	32	473	510
Mycobacterial Diseases	Pulmonary Tuberculosis (TB)	3	1	0	0	2	0	0	0	0	6	3	56	58
	Extrapulmonary TB	1	0	0	0	1	0	0	0	0	2	1	9	11
	Mycobacteria Other Than TB	0	5	3	2	13	3	5	2	6	39	34	265	286
Vaccine Preventable Diseases	Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pertussis	0	1	0	0	1	1	0	0	1	4	10	69	40
	Tetanus	0	0	0	0	0	0	0	0	0	0	0	1	0
	Polio	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mumps	0	0	0	0	0	0	0	0	0	0	0	1	3
	Hepatitis B (acute)	0	0	0	1	0	0	0	0	0	1	3	66	49
	Invasive <i>H. influenzae</i> disease	1	0	0	0	1	0	0	0	0	2	1	17	16
	Invasive Meningococcal disease	0	0	0	0	0	0	0	0	0	0	0	4	4
Enteric Diseases	Hepatitis A (acute)	0	2	0	0	0	0	0	0	0	2	0	7	7
	Salmonellosis	10	26	3	6	46	18	14	11	16	150	162	1,153	1,203
	Shigellosis	2	1	2	1	22	1	0	0	1	30	28	244	165
	Campylobacteriosis	0	0	0	0	3	1	0	0	1	5	4	89	67
	<i>E. coli</i> O157:H7/shiga toxin-producing <i>E. coli</i> (STEC)/HUS	0	0	0	0	1	0	0	0	0	1	4	16	31
Zoonotic Diseases	Animal Rabies (bats)	0	0	0	0	0	0	0	0	0	0	0	1	2
	Lyme disease	0	0	0	0	0	0	0	0	0	0	0	1	4
	Rocky Mountain spotted fever	0	0	0	0	0	0	0	0	0	0	2	20	22
	West Nile virus	0	1	1	1	1	1	3	3	1	12	0	239	51

*Totals include reports from Department of Corrections and those not reported from a specific District.

School Entry Immunization Requirements: The required vaccines are listed below. All vaccines should be administered according to the Advisory Committee on Immunization Practices (ACIP) recommendations (available on the ACIP website at: <http://www.cdc.gov/vaccines/pubs/ACIP-list.htm>)

MS School Entry Immunization Requirements 2012-2013^a

Vaccine/antigen	No. of doses
Diphtheria, Tetanus, Pertussis (DTaP) ^b	5 ^c
Polio (IPV)	4 ^d
Hepatitis B	3
Measles, Mumps, Rubella (MMR)	2 ^e
Varicella (chickenpox)	2 ^f
Tdap	1 ^g

- All children entering a Mississippi school (any grade) for the first time will be required to have the above listed immunizations. This includes Pre-K 4 year olds – 12th grade.
- Children entering a Mississippi school after their 7th birthday, who do not meet the above DTaP requirements, will need at least 3 total doses of diphtheria/tetanus containing vaccine (Td). Tdap should be used as one of the three diphtheria/tetanus containing vaccines (preferably as the first of the 3 doses) for children age 10 years and older. Refer to the Advisory Committee on Immunizations Practices (ACIP) catch up schedule at <http://www.cdc.gov/vaccines/pubs/pinkbook/default.htm>
- If the 4th dose is received on or after the 4th birthday, a 5th dose is not required.
- The final dose in the series should be administered at age >4 years of age, regardless of number of previous doses.
- MMR vaccine may only be waived if there is a documented physician’s diagnosis of previous infection with measles, mumps and rubella disease or a serological confirmation of immunity to measles, mumps and rubella.
- Varicella vaccine will be waived for evidence of past infection, including past history of chickenpox or a serological confirmation of immunity to chickenpox.
- Beginning 2012-2013 school year all students entering, advancing to or transferring into 7th grade will need proof of an adolescent whooping cough (pertussis) booster, Tdap immunization, before entry into school in the fall. Tdap vaccine given on or after the 7th birthday meets the new school requirement.**

References available on request.

Submitted by Paul Byers, MD, Deputy State Epidemiologist, MSDH

