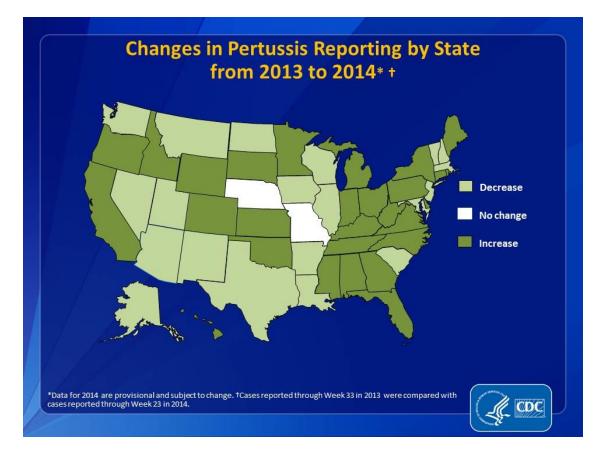
Pertussis Outbreak Trends

http://www.cdc.gov/pertussis/outbreaks/trends.html



- MS has seen an increase in pertussis despite being the most highly vaccinated state in our nation.
- 59% of pertussis cases were in those individuals who had received 3 or more doses of the vaccine.
- Those sick with pertussis who were known to have zero pertussis vaccinations made up just 9% of cases.
- In 2012 Mississippi and other states mandated a new TDaP booster to be given to all students entering the seventh grade (age 12 & 13)
- Increased rates of pertussis were observed in 2013 in adolescents 13 and 14 years of age.

The CDC's own Dr. Anne Schuchat states, "Pertussis is a cyclical disease and the vaccines are not perfect. So even with increasing vaccination coverage, we expect to still have cycles. We know there are places around the country where there are large numbers of people who aren't vaccinated. However, we don't think those exemptors are driving this current wave. We think it is a bad thing that people aren't getting vaccinated or exempting, but we cannot blame this wave on that phenomenon." http://www.cdc.gov/media/releases/2012/t0719_pertussis_epidemic.html

Conclusion: Pertussis outbreaks are being driven by a vaccine failure and not by children who are not fully vaccinated. Our children in Mississippi are receiving 6 doses of pertussis vaccine (+diphtheria +tetanus) by middle school!

2012 Final Pertussis Surveillance Report

Notice to Readers: Final 2012 Reports of Notifiable Diseases

August 23, 2013 / 62(33)

http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6233a6.htm?s_cid=mm6233a6_w

Reported Cases: 2011 and 2012

Weeks 1-52, 2011 18,719 Weeks 1-52, 2012 48,277

Reported Case Profiles, 2012 By Age, Weeks 1-52

4994	10.3	126.7	
8280	17.2	34.1	
9532	19.8	58.5	
14440	29.9	38.0	
10436	21.6	4.5	
595	(1.2)	N/A	
48277	100.0	15.2	
	8280 9532 14440 10436 595 48277	8280 17.2 9532 19.8 14440 29.9 10436 21.6 595 (1.2)	

2012 Reported Pertussis Deaths

Age	Deaths ^{*†}	
Infants, aged < 3 months:	15	
Infants, aged 3-11 months:	1	
Children, 1-4 years:	2	
Adults, aged 55+ years:	2	
Total	20	

Deaths reported through NNDSS to CDC. 11 of the 20 deaths were male.

DTaP Vaccination History of Pertussis Cases

Age	Unk	0 doses	1-2 doses	3+ doses	Total
	No. (%)	No. (%)	No. (%)	No. (%)	No.
6-11 mo	320(26)	131(11)	230(19)	539(44)	1220
1-4 yrs	1613(28)	540(9)	233(4)	3404(59)	5790
5-6 yrs	630(25)	180(7)	60(3)	1620(65)	2490
Total*	2563(27)	851(9)	523(5)	5563(59)	9500

Source: Meningitis and Vaccine Preventable Diseases Branch, Division of Bacterial Diseases, National Center for Immunization and Respiratory

Incidence of Reported Pertussis, By State

ALABAMA

ALASKA

ARIZONA

ARKANSAS

CALIFORNIA

COLORADO

DELAWARE

FLORIDA

GEORGIA

HAWAII

IDAHO

ILLINOIS

INDIANA

KANSAS

MAINE

KENTUCKY

LOUISIANA

MARYLAND

MICHIGAN

MINNESOTA

MISSISSIPPI

MISSOURI

MONTANA

NEBRASKA

NEW JERSEY

NEW MEXICO

NEW YORK CITY

NORTH DAKOTA

OKLAHOMA

PENNSYLVANIA

RHODE ISLAND

SOUTH DAKOTA

TENNESSEE

VERMONT

WASHINGTON

WEST VIRGINIA

WISCONSIN

WYOMING

TOTAL

VIRGINIA

TEXAS

UTAH

SOUTH CAROLINA

OREGON

NORTH CAROLINA

NEW YORK

OHIO

NEW HAMPSHIRE

NEVADA

MASSACHUSETTS

IOWA

D.C

CONNECTICUT

Incidence

4.4

48.3

17.2

8.4

2.1

28.8

5.1

6.2

4.1

2.3

3.2

5.2

14.7

15.7

56.5

30.7

15.2

55.5

6.3

9.8

8.6

77.0

2.6

13.5

54.6

12.9

4.1

20.4

15.7

44.3

24.2

5.5

6.3

7.7

4.0

23.2

15.2

10.8

4.7

8.4

4.7

8.5

55.7

7.6

71.3

4.6

120.2

10.8

15.4

103.0

30.6

1.6

6.8

(per 100,000) Cases

No. of

212

353

248

795

1494

182

57

26

575

318

73

235

441 1736

887

666

72

737

369

648

845

4142

77

815

549

240

112

269

1395

924

2715

456

612

214

893

154

906

1945

113

224

70

305

2218

1591

645

625

4916

6880

48,277

85

62

2026

1130

Diseases, Centers for Disease Control and Prevention, at 404-639-3158

Weeks 1-52, 2012 CDC/NCIRD/DBD/MVPDB

Percent calculated from total cases aged 6 months to 6 years, n=9,500.

National Center for Immunization and Respiratory Diseases Division of Bacterial Diseases

with age reported.



National Academy of Science of the United States of America A Pertussis baboon study showing transmission after vaccination: Acellular pertussis vaccines protect against disease but fail to prevent infection and transmission in a nonhuman primate model http://www.pnas.org/content/111/2/787.full

- FDA study in infant baboons showed that while the pertussis vaccine can cut down on serious clinical disease symptoms, it does not eliminate transmission of B. pertussis whooping cough
- The baboon study suggests that if you're recently vaccinated against whooping cough and then are exposed to B. pertussis, you may not get classic symptoms of the disease but could temporarily become an asymptomatic carrier, which is "good for you but not for the population," according to the study's lead researcher
- This may partly explain recent outbreaks of whooping cough among the highly vaccinated U.S. population, in which 95 percent of children have received at least five doses of pertussis vaccine between two months and six years old. (Previous recovery from natural B. pertussis infection was found to confer better protection against becoming an asymptomatic carrier after exposure to B. pertussis than a history of previous vaccination)
- The study suggests pertussis vaccine-acquired immunity is an illusion. While vaccination may protect against development of severe clinical symptoms upon exposure to B. pertussis, a vaccinated person can still colonize B. pertussis bacteria and transmit the infection to others