

# CDC's Global Health Activities



March 2008



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# CDC's Coordinated Global Health Approach

- Integrated efforts – increased synergy, efficiency
- Focus on public health surveillance and disease prevention, control
- Increased situational awareness
- Strengthened regional networks
- In countries with a large CDC presence, one CDC voice



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# CDC *Modus Operandi* in Global Health

- Working with Partners
- Programs with overseas staff
  - Based at MOH, WHO, or with other partners
  - Enhancing surveillance capacity.
  - Investigating disease outbreaks
  - Developing and implementing evidence-based strategies.
- Supporting Global Health from the US
  - Short-term visits by US-based staff
  - Reference lab support
  - Training



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# CDC – Peking University Health Science Center collaboration on birth defects

- High rate of neural tube defects
- High rate of planned pregnancy
- Required premarital health exam – opportunity to implement intervention before pregnancy
- High rate of pregnancy within first year of marriage
- Stable, homogeneous



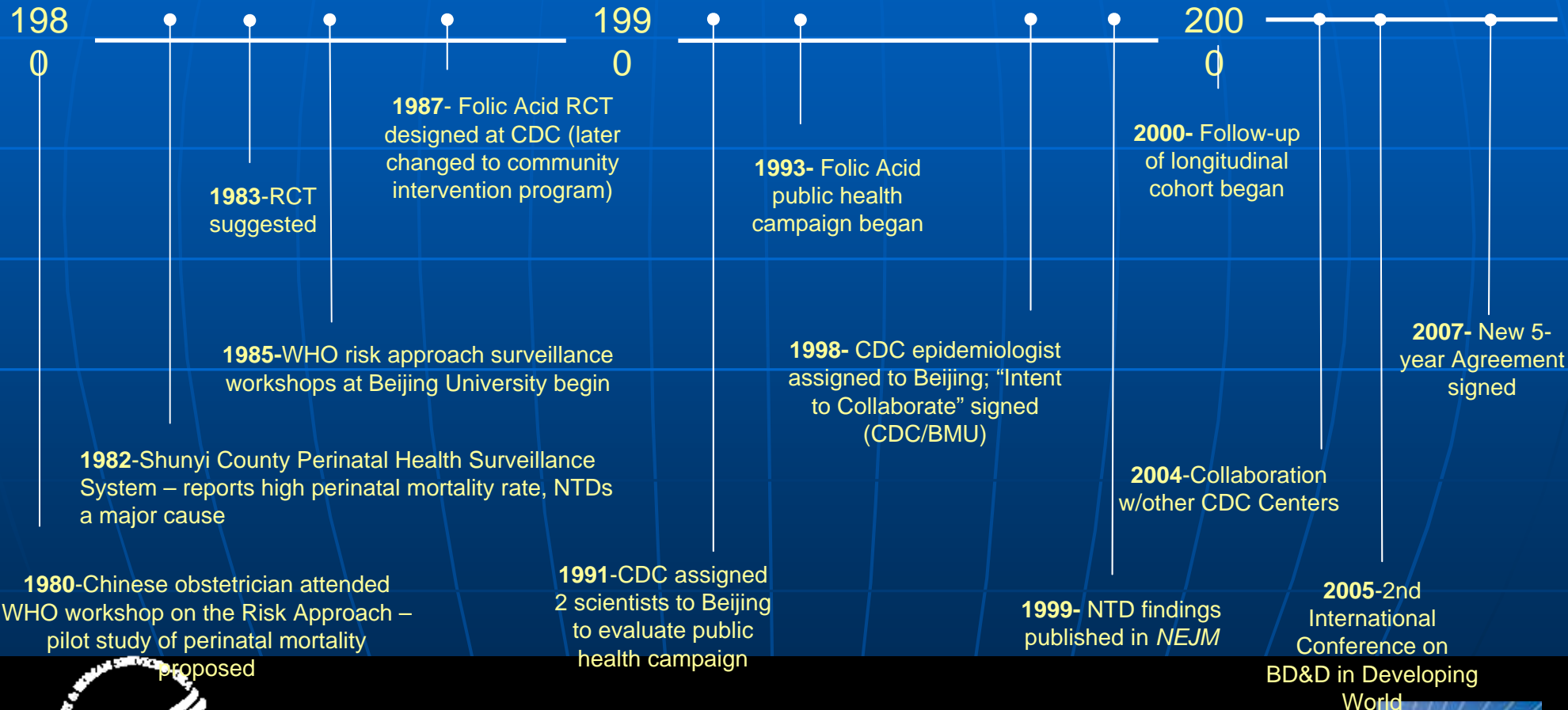
Neural Tube Defect Rates  
North: ~5-6/1,000  
South: ~1/1,000

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# 25 year history of CDC — PUHSC collaboration on birth defects

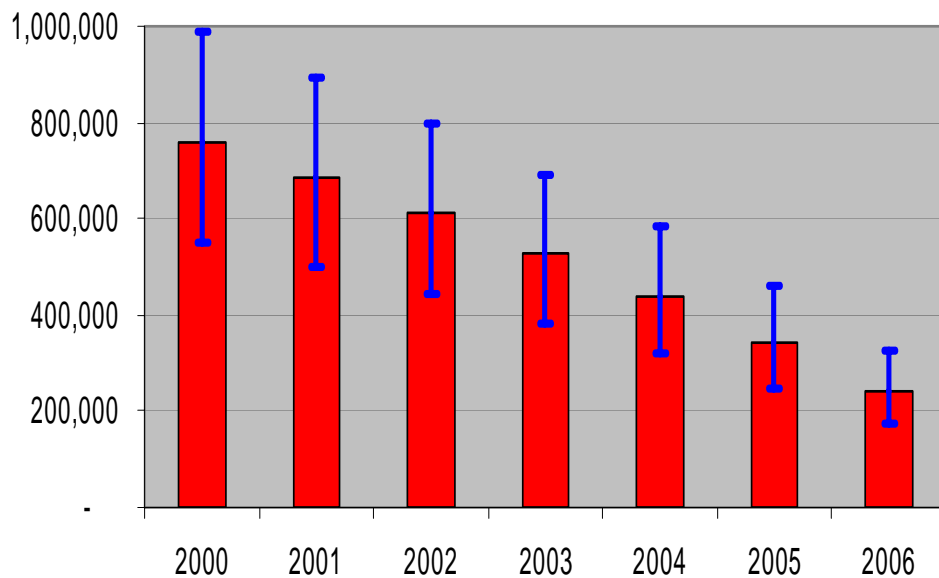


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# Progress in Global Measles Control and Mortality Reduction, 2000-06

Global Measles Deaths



MMWR. 2007;56:1237-1241

WER 30 November 2007, vol. 82, 48 (pp 417-424)



## In 2006:

- 1<sup>st</sup> dose coverage reached 80%
- 136 million children vaccinated in SIAs in 47 priority countries
- 19 of 25 countries conducted integrated measles SIAs

## From 2000-2006:

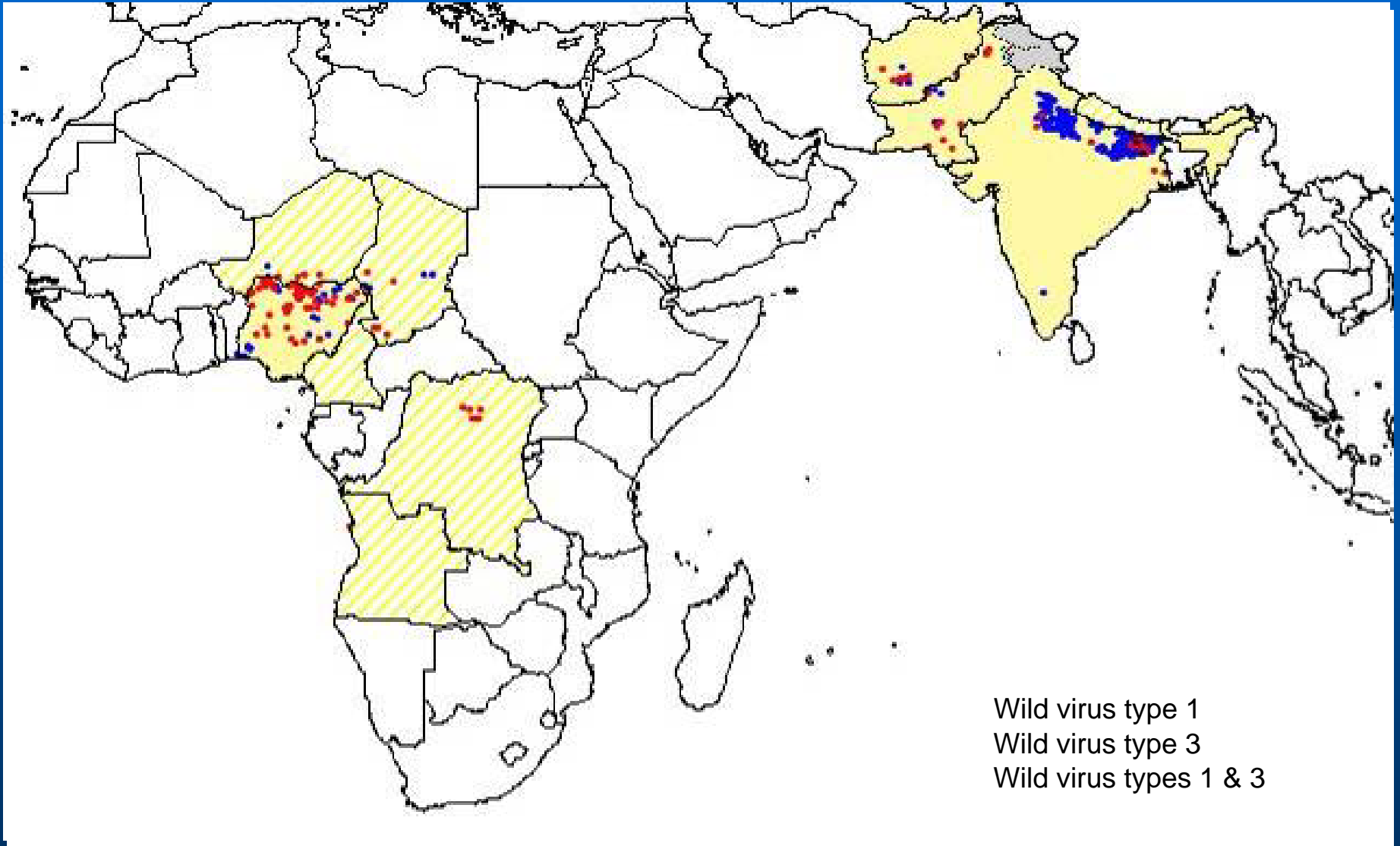
- Global deaths decreased by 68%
- Africa - 91% reduction in mortality
  - Achieved 2009 regional goal!!!



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# Wild Poliovirus\*, 19 Sep 2007 – 18 Mar 2008



- Endemic countries
- Case or outbreak following importation (0 - 6 months)

\*Excludes viruses detected from environmental surveillance and vaccine derived polio viruses.

Data in WHO HQ as of 18 Mar 2008

The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.  
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# Malaria—A global health issue

- 500 million cases and more than 1 million deaths each year.
- Overwhelming burden falls on children in rural Africa.
- No effective vaccine, repeated infection is common.
- Good tools exist for prevention and treatment.

## CDC Malaria Branch (DPD/NCZVED)

- Historic role in eliminating malaria transmission in the US.
- Provides treatment and prevention recommendations.
- Serves as global reference laboratory.
- Conducts applied studies to improve malaria interventions.
- Provides technical assistance to USG, multinational and endemic country malaria control authorities.
- Supports implementation of US President's Malaria Initiative:
  - 5 year, 1.5 billion-dollar program
  - 15 countries



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# Assignment in Tanzania: 2002-2006

- Strategic and applied science mission:
  - Largest coordinated portfolio of applied research for malaria control supported by USG.
  - Improved delivery of insecticide-treated nets for prevention.
  - Pioneered the availability and use of novel combination drugs for treating malaria illness.
  - Developed interventions for improving care for severely ill children and managing multiple treatable conditions simultaneously.
- President's Malaria Initiative:
  - Expanded access to effective treatment through public-private sector partnership.
  - Dramatically improved use of insecticide-treated mosquito nets among children and pregnant women.
  - Improved malaria prevention and treatment for expectant mothers.
  - Essentially eliminated malaria transmission on the Zanzibar Archipelago.



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**Thank You!**



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