Global Polio Eradication Initiative Update

Dr. Robert Linkins

Chief, Vaccine Preventable Disease Eradication and Elimination Branch, Global Immunization Division, CGH 20 February 2013

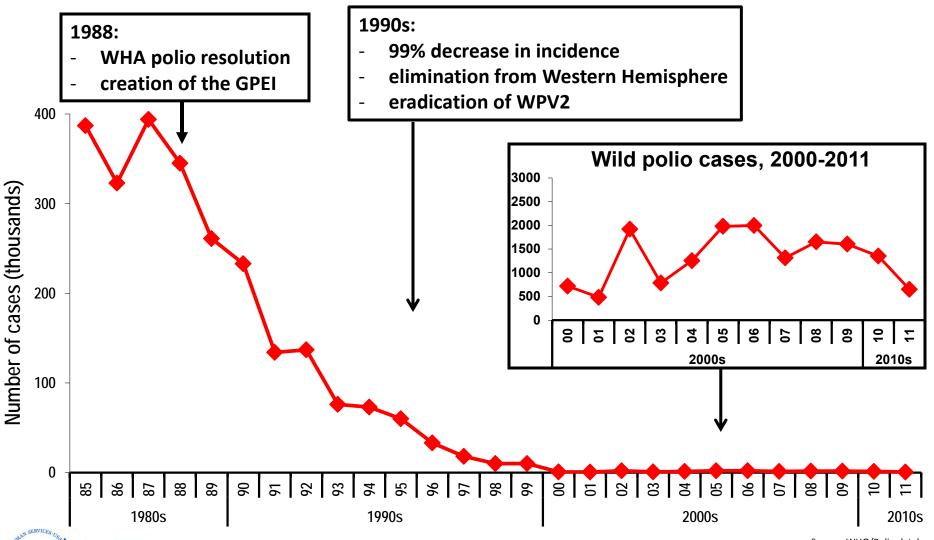


Overview

- How we got to where we are today
- Where we stand in 2013
 - Pakistan
 - Afghanistan
 - Nigeria
- Going forward



Polio Eradication, 1985-2011



Source: WHO/Polio database.

st - Data from 2012 are projected, based on cases reported through Dec 4, 2012

Seminal Events in 2011

- Last case of polio in India, January 13, 2011
- Independent Monitoring Board Report, October 2011
 - The Programme is not on track for its end-2012 goal, or for any time soon after unless fundamental problems are tackled.
 - This Programme needs greater global priority and funding. Failure would be a disaster.
 - We are convinced that polio can and must be eradicated. We are equally convinced that it will not be eradicated on the current trajectory.



December 2011—Eradication as Emergency

- December 2011 Partner's meeting
 - 5 core partners of the GPEI









Consensus on need to move from "business as usual" and need for better partner coordination

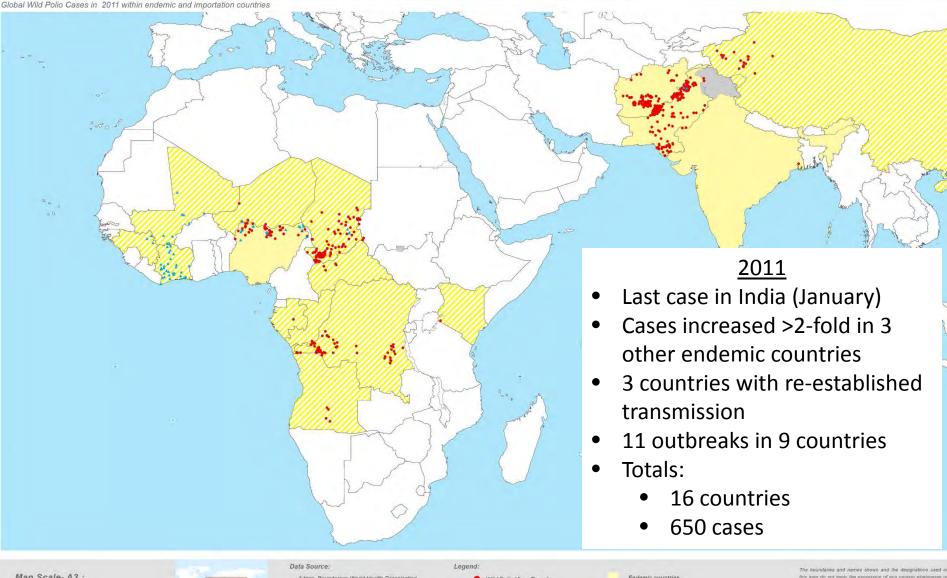
At CDC

- Activation of Emergency Operations Center, December 14th
- Expansion of polio eradication program



GLOBAL WILD POLIO VIRUS 2011









Admin. Boundaries: World Health Organization Map Production: Public Health Information and Geographic Information Systems (GIS) World Health Organization Data as on 27/11/2012

Wild Polio Virus Type-1



Wild Polio Virus Type-1 & 3



Endemic countries

Importation countries

Note: Excludes viruses detected from environmental surveillance and vaccine derived polio viruses

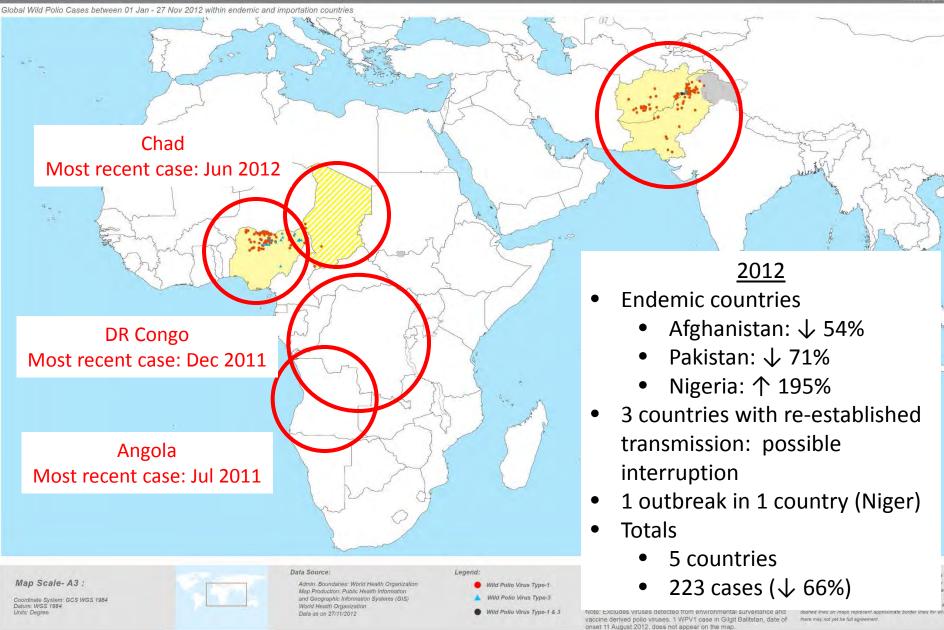
The boundaries and names shown and the designations used or this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers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





GLOBAL WILD POLIO VIRUS 2012

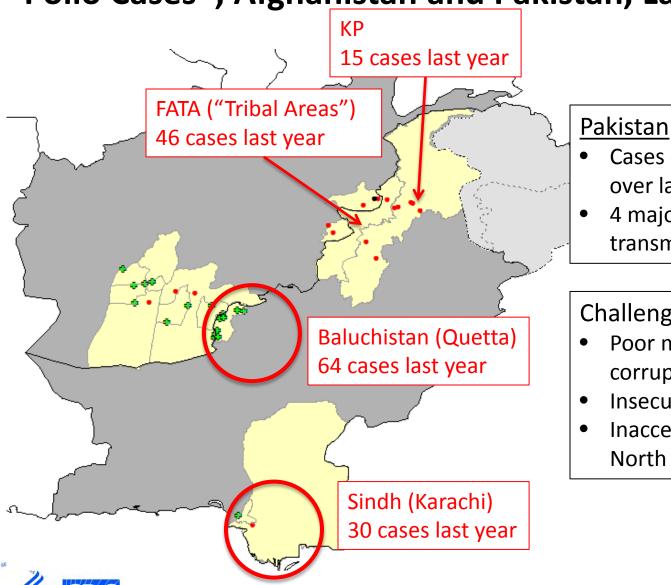








Polio Cases*, Afghanistan and Pakistan, Last 4 Months



- Cases decreased by 2/3 over last year
- 4 major zones of transmission

Challenges

- Poor management, corruption
- Insecurity
- Inaccessibility, particularly in North and South Waziristan

Pakistan

POLIO

Abbott and th inflam polio v Wester Muslin no poli

the las the chi

inacce:

numbe in Janu

Helma

circula

virus 1

danger

other c

fear ke

Taliba

istan. a hotb

Bal



Durry was brought in to clear up polio in Pakistan. d-2000s, it became

nes in Pakistan, each netic signature: the Tribal Areas (FATA) Pakhtunkhwa (KP), Northwest Frontier vest along the bor-Balochistan, which lso shares a porous an: and Karachi at

circulated in three

3 AUGUST 2012 VOL 337 SCIENCE www.sciencemag.org Published by AAAS



Elias Durry

Shahnaz Wazir Ali

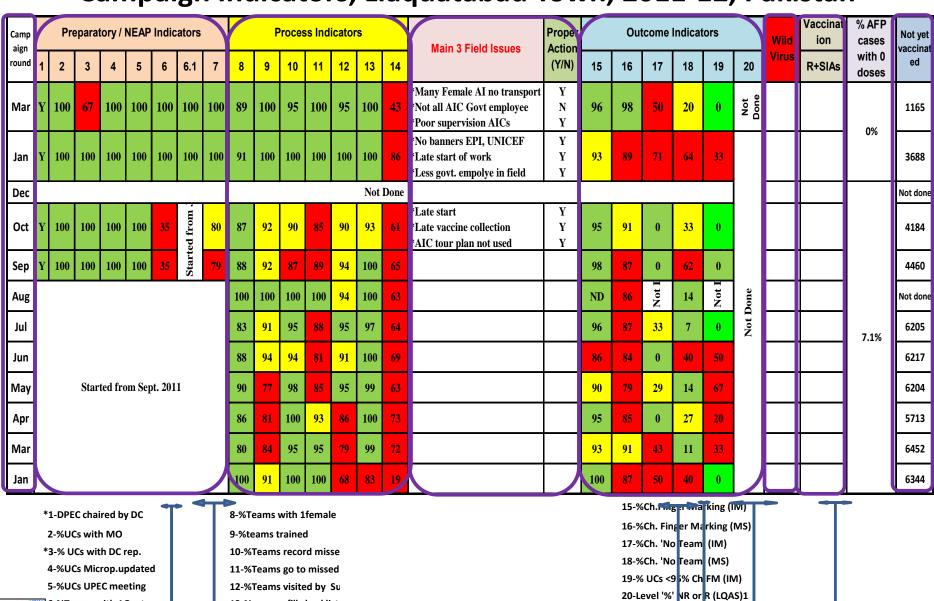
Major changes to program since early 2011

- Emphasis on program management and accountability
- Performance indicators ("dashboard")
- Polio "control rooms"
- National STOP (NSTOP) in collaboration with FELTP





Campaign Indicators, Liaquatabad Town, 2011-12, Pakistan



20-Level '%' NR or R (LQAS)2

20-Level 'M NR or R HQAS)3

≥20 %

NR at 90%

NR ot R at 80

6-%Teams with 1Govt.

6.1-%Teams with 1Local

80-94

<80%

80-89

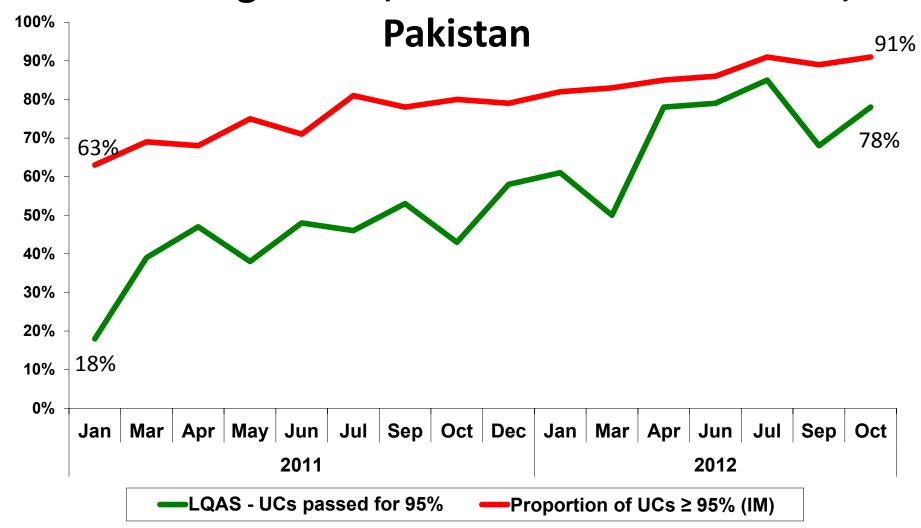
<80%

13-%superv. fill checklist:

14-%Superv. Adeq. trans

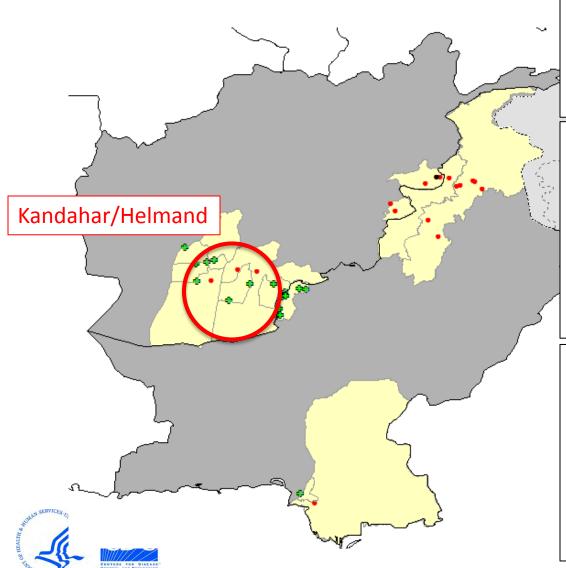
Before Dec 11 it was TPEC

Lot quality assurance sampling and independent monitoring results, Jan 2011 – Oct 2012 SIAs,





Polio Cases*, Afghanistan and Pakistan, Last 4 Months



<u>Afghanistan</u>

- Cases decreased by 1/2 over last year
- Single zone of transmission

Challenges

- Poor management
- Insecurity
- Inaccessibility, particularly in South
- Limited skilled personnel
- Slow scale-up

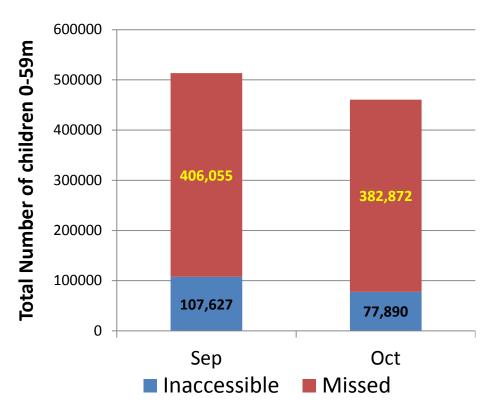
Innovations

- Focus on 13 high-risk districts (District EPI Management Teams)
- "Permanent polio teams"
- Cross-border collaboration
- Non-traditional partners

*Confirmed WPV cases only

So what's the problem in Kandahar/Helmand?

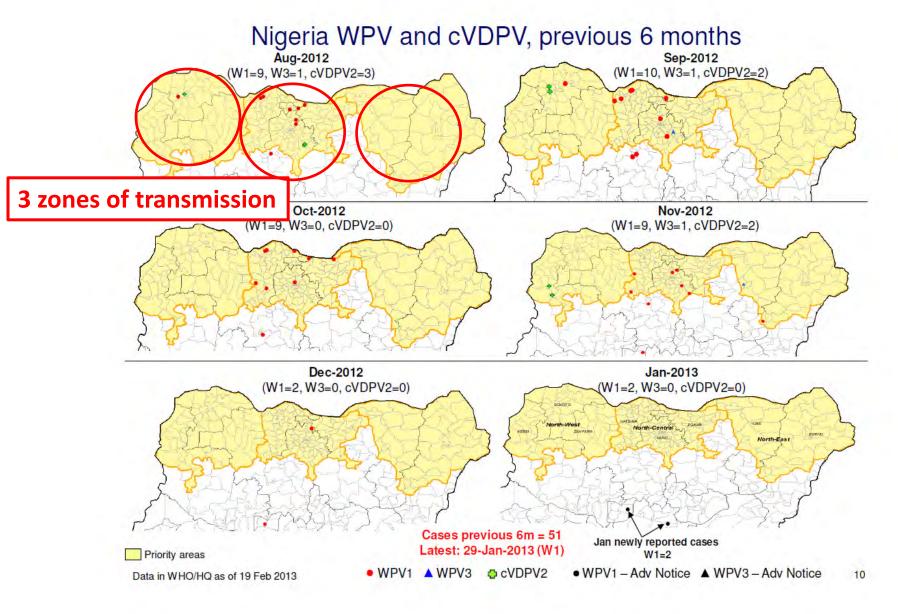
Too many children missed



~500,000 missed children in Afghanistan each SIA - most in Kandahar and Helmand

Nigeria WPV and cVDPV, previous 6 months Aug-2012 Sep-2012 (W1=9, W3=1, cVDPV2=3) (W1=10, W3=1, cVDPV2=2) Nov-2012 Oct-2012 (W1=9, W3=0, cVDPV2=0) (W1=9, W3=1, cVDPV2=2) Dec-2012 Jan-2013 (W1=2, W3=0, cVDPV2=0) (W1=2, W3=0, cVDPV2=0) Cases previous 6m = 51 Jan newly reported cases Latest: 29-Jan-2013 (W1) W1=2 Priority areas WPV1 ▲ WPV3 ♣ cVDPV2 WPV1 – Adv Notice ▲ WPV3 – Adv Notice Data in WHO/HQ as of 19 Feb 2013 10







Nigeria

- Major focus of GPEI
- May be only country in Africa with polio now
- 121 cases in 2012 (~twice the 2011 number)
- Program undergoing major transformation

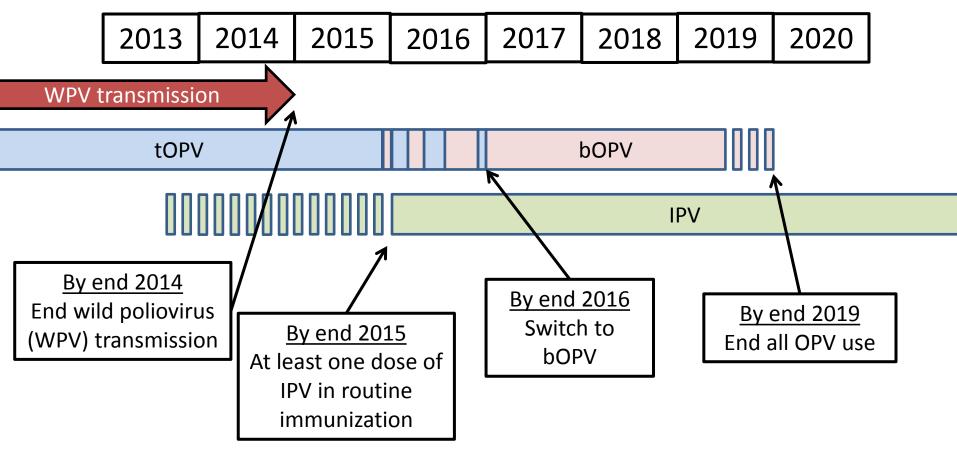


Changes to Nigeria Program

- Better coordination
- Increased staffing
 - Increase of >4000 field staff
 - >100 National STOP (NSTOP)
- Innovation
 - Emergency operations center
 - Nomadic and scattered settlements initiative
 - Indicators dashboard
 - House-based micro-planning
 - GIS mapping/ GPS tracking



Going Forward—Timeline Proposed in GPEI 2013-2018 Strategic Plan*





Summary

- Substantial progress over last year, but we're not there yet:
 - Pakistan: major improvements, may be positioned to interrupt transmission in next 6 months
 - Afghanistan: slower scale-up, but gaining momentum
 - Nigeria: undergoing transformation, but case counts remain high; need to see major improvement in early 2013
 - Elsewhere: may have interrupted transmission;
 maintaining immunity will be harder over time
- Challenges:
 - Weak infrastructure (weak routine immunization programs; poor management; corruption)
 - Insecurity, politics, vaccine supply





