Progress Towards Global Polio Eradication by 2012: Progress and Ongoing Challenges

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Presentation outline

- European Region status
- Progress towards global polio eradication
- Summary
Confirmed wild poliovirus cases*, WHO European Region, 2010

- Wild poliovirus type 1
  - Tajikistan: 457 cases
  - Turkmenistan: 3 cases
  - Russian Federation: 14 cases
  - Kazakhstan: 1 case

- AFP cases
  - Uzbekistan: 147 cases

Data as of 31 August 2010
Source: Weekly AFP reporting to WHO European Region

*AFP cases for Uzbekistan
Wild poliovirus cases, 2010*
WHO European Region

Transmission Interrupted, no wild polio for > 8 months

Country | Total wild poliovirus cases | SIA* | Last wild poliovirus case | AFP cases reported after last polio cases
--- | --- | --- | --- | ---
Kazakhstan | 1 | | 12-Aug-10 | 79
Turkmenistan | 3 | | 28-Jun-10 | 26
Russian Federation | 14 | | 25-Sep-10 | 238
Tajikistan | 457 | | 04-Jul-10 | 22

* only SIA’s conducted between Apr and Sep 2010 are included on this graph. (Additionally, in 2010, Tajikistan conducted 2 more nationwide rounds in Oct and Nov; Kazakhstan conducted 1 more nationwide round in Nov and Russian Federation conducted two subnational SIA rounds in Nov and Dec)

## Deaths due to poliomyelitis by age group
### Tajikistan, 2010

<table>
<thead>
<tr>
<th>Age group</th>
<th>Confirmed WPV1</th>
<th>Confirmed and polio-compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. fatal/total</td>
<td>%</td>
</tr>
<tr>
<td>&lt;5 yrs</td>
<td>16/297</td>
<td>5.4</td>
</tr>
<tr>
<td>5-14 yrs</td>
<td>10/107</td>
<td>9.3</td>
</tr>
<tr>
<td>15+ yrs</td>
<td>3/53</td>
<td>5.7</td>
</tr>
<tr>
<td>Overall</td>
<td>29/457</td>
<td>6.3</td>
</tr>
</tbody>
</table>
Actions taken to control outbreak and to minimize risk of importation of wild poliovirus within the Region
Strengthened Political Commitment

- The WHO/Europe Regional Director - country missions
- 60th WHO European Regional Committee
- Meetings with ministers of health in infected and neighbouring countries
- Communication with global and regional partners
Supplemental immunization activities in the Central Asian Republics and Russian Federation, 2010

- More than 45 millions doses of mOPV1 and tOPV
- More than US$ 9 million

<table>
<thead>
<tr>
<th>Country</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tajikistan</td>
<td>2 NIDs</td>
<td>2 NIDs</td>
<td>1 SNID</td>
<td>1 NID</td>
<td>1 NID</td>
<td>1 NID</td>
<td>1 NID</td>
</tr>
<tr>
<td>Uzbekistan</td>
<td>1 NID</td>
<td>1 NID</td>
<td>1 NID, 1 SNID</td>
<td>1 NID</td>
<td>1 NID</td>
<td>1 NID</td>
<td>1 NID</td>
</tr>
<tr>
<td>Kyrgyzstan</td>
<td></td>
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<td>1 NID</td>
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<tr>
<td>Kazakhstan</td>
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<tr>
<td>Turkmenistan</td>
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<tr>
<td>Russian Federation</td>
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</tbody>
</table>

Note: SNID = Single NID, NID = Normal Immunization Day, SNIs = Single NIS
A review and analysis of acute flaccid paralysis (AFP) surveillance, laboratory, and immunization data available supplemented with travel data & demographic data to address 3 specific areas:

- **Population movements**
- **Population immunity**
- **AFP surveillance**
Member States adopted resolution to reaffirm commitment for sustaining polio-free status.
Rehabilitation activities in Tajikistan: Ministry of Health with UNICEF, WHO, and NGOs
Actions to sustain polio-free status:
European Immunization Week

Platform for:
- driving demand for vaccines
- immunizing
- advocating for political support and
- financial commitment

2011: "Shared solutions to common threats"
- Synchronised SIAs in central Asian republics, Russian Federation, Azerbaijan and Georgia
The European Regional Certification Commission on Poliomyelitis stated that wild poliovirus type 1 circulation in the European Region had been interrupted (August 2011)

The European Region does not need to be recertified

During 2010-2011 all Member States of the WHO European Region have taken actions to assure polio-free status
Future for the European Region
WHO European Region remains polio-free

- improve population immunity

- increase capacity to rapidly detect any remaining transmission or new importation of wild poliovirus.
Most countries in the European Region achieved >95% immunization coverage, but...

- timely provision of immunization is a problem in several countries
- national data often reveals under-performing districts
- completeness and accuracy of data at subnational level remain sub-optimal in some countries

Slow declining quality of certification level surveillance
“Firewall of immunity”

- Ensure accurate high coverage - vulnerable, high-risk, and mobile populations
- Countries should have national preparedness plans that have been tested
  - target group
  - vaccine type
- Polio-free regions must sustain the gains

Vaccine secured?

- Yes: 5
- No: 26
- Unknown: 2
Risk of transmission following importation of wild poliovirus: WHO European Region, 2011
Polio
Strategic Plan
2010-12
Status of endemic countries year-to-date cases 2010-11

Graph showing cases in India, Afghanistan, Nigeria, and Pakistan from 2010 to 2011.
Polio-infected districts, first half of 2011

- Wild virus type 1
- Wild virus type 3

India: 7 months with no polio case for 1st time in history

Nigeria: 95% drop in cases sustained for > 18 months

Smallest type 3 infected area & cases in history
Global Strategic Plan 2010-2012: status of key milestones in mid-2011

<table>
<thead>
<tr>
<th>Mid-2010: all 2009 importations interrupted</th>
<th>Achieved (15/15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Within 6 months: all new imports interrupted</td>
<td>Achieved/on-track</td>
</tr>
<tr>
<td>End-2010: all re-established viruses interrupted</td>
<td>At risk: Sudan</td>
</tr>
<tr>
<td></td>
<td>Missed: Angola, DRC, Chad (off track)</td>
</tr>
<tr>
<td></td>
<td>On-track: India, Afghanistan</td>
</tr>
<tr>
<td></td>
<td>At risk: Nigeria</td>
</tr>
<tr>
<td></td>
<td>Off-track: Pakistan</td>
</tr>
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</table>
Seven important conditions to get programme back on track

1. India: No new cases by end-2011

2. Nigeria: interruption of transmission in Kano and north-west

3. Interruption of type 3 globally by end-2011

4. Increased capacity in Chad and DR Congo, visible progress by end-October

5. Pakistan: decline in cases in second half of 2011; implementation of Emergency Plan in Sindh

6. No more 'surprises' in polio-free countries

7. Decline in poor quality vaccination campaigns/surveillance
Independent Monitoring Board (IMB) of the Global Polio Eradication Initiative

- Present needs:
  - Concisely understand the global situation
  - Maintain clear and energetic focus in each country with ongoing transmission
  - To see the woods for the trees in identifying and dealing with programme’s key risks
  - To find innovative solutions that breakthrough entrenched problems
  - To surface fundamental problems that need urgent attention
Strengths to build upon

- India: 10 months without Type 3 and 7 months without Type 1 WPV
- All 2010 WPV outbreaks stopped *(except Chad)*
- Progress in NW Nigeria & most of West Africa
Key recent developments

- **WHA:** all West Africa Ministers commit continued, monthly synchronized SIAs to stop type 3 outbreak

- **DR Congo & Chad:** new human resource surge

- **Pakistan:** Prime Minister Task Force - Presidential Oversight Committee; UNICEF/WHO 600 person surge

- **AFRO:** Regional Direction announced 6 month polio emergency plan to accelerate eradication
Importation of wild poliovirus into China - polio free since 2000

- 4 wild poliovirus type 1 cases reported in August 2011 in Xinjiang Province

- Genetic sequencing suggests virus similar to virus circulating in Pakistan

- SIAs to be conducted in September 2011 targeting children ≤ 14 years (4.5 million)

- Risk to the European Region being assessed
## Global polio eradication: priorities for the next six months

<table>
<thead>
<tr>
<th>Category</th>
<th>Countries</th>
<th>Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-level, focal transmission</td>
<td>India, Nigeria, DR Congo, Angola</td>
<td>Stop by Sept 2011 (except Nigeria)</td>
</tr>
<tr>
<td>Ongoing outbreaks</td>
<td>Mali, Cote d'Ivoire, Guinea, (Somalia)</td>
<td>Stop by Sept 2011</td>
</tr>
<tr>
<td>'Uncontrolled transmission'</td>
<td>Pakistan (AFG), Chad</td>
<td>Stop type 3 by end-2011(?)</td>
</tr>
<tr>
<td>Polio-free priorities</td>
<td>West Africa, Sudan, CAR</td>
<td>Maintain polio-free status</td>
</tr>
</tbody>
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Global Polio Eradication Initiative: financing, 2011-2012

2011-12 Funding Gap: US$ 590 m of $1.95 b budget

Funding Gap 30%

Domestic Resources 23%

Non-G8 OECD/Other 1%

Multilateral Sector 5%

Private Sector 27%

G8 14%

Other includes: the Governments of Finland, Italy, Monaco, Nigeria, Nepal, Romania, and Spain; Unicef Regular and Other Resources, ECHO, CERF, Islamic Development Bank, Shinnyo-en

As of 24 June 2011
The GPEI timeline......

WPV Certification
Globally

Wild poliovirus (WPV)
Interruption, Containment
& Certification

Cessation of all
routine OPV use

VAPP/VDPV
Elimination &
Verification

Post-OPV
Era

Years

- Polio eradication can be achieved in near-term, however, “this will not happen if things continue as they are"

- Global funding gap 'deadly serious'

- Particular concern in DR Congo, Chad, Angola, and Pakistan
• Well established programme guidance and oversight with milestones

• Mixed situation with respect to milestones
  • *Outbreak milestone looks good*
  • *Re-established milestone missed in 3 countries*
  • *One endemic country at risk (NIE) and one still not on track (PAK)*

• Despite strong support, financing gaps continue to be a major issue; exploring new approaches

• Consolidating gains in India, Angola, N/W Nigeria & West Africa
Our doubts are traitors, and make us loose the good we oft might win, by fearing to attempt.

*William Shakespeare*, Measure for Measure
Polio still cripples thousands of children around the world every year. With your help, we can wipe this disease off the face of the earth forever. Visit rotary.org/endpolio to help.

END POLIO NOW

We Are ThisClose to Ending Polio.

Archbishop Desmond Tutu