Polio Eradication; Update on Situation in Pakistan

Meeting of the independent Monitoring Board for GPEI

6th May 2014

Prime Minister’s Polio Monitoring Cell
Outline

1. Situation Review
2. Maintaining Government’s commitment & oversight
3. Maintaining status of areas without polio cases
   a) Appropriate SIAs’ schedule
   b) Aggressive case response strategy
4. Reaching populations on the move
5. Approach towards polio reservoirs
6. Inaccessible Areas of FATA
7. Future plan and summary
1. Situation Overview

Vaccine Type
- mOPV1
- mOPV3
- Trivalent
- Bivalent

Virus Type
- NSL3
- NSL1
- NSL1 & NSL3

Months / Years
- 2011
- 2012
- 2013
- 2014

Cases (n)
- 198
- 58
- 93
- 59

* Data as of 19th April, 2014

^ Data incomplete
Polio cases in 2014 in Areas with barriers to immunization

Ban by local leaders
- North & South Waziristan tribal Agencies

Areas with direct threat to Field health workers
- Peshawar & Karachi

Areas with military operation & Active insurgence
- Khyber tribal Agency

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<thead>
<tr>
<th>District/Agency/Towns</th>
<th>CASES</th>
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Inaccessible areas
Central KP, Waziristan agencies, Khyber, FR areas (FATA) & Karachi

* Data as of 4th April, 2014
Security Incidents (Martyrs) Jul 2012 – Mar 2014
• PM’s Focal Person appointed and Polio Cell moved to PM’s Secretariat
• Close oversight provided by the highest offices
  – National Task Force met in last quarter of 2013 under the chairmanship of PM
  – PM endorsed NEAP 2014 in a briefing on 11th March 2014
  – President hosted two Jirgas with FATA tribal elders & held meetings with Governor KP and senior officials during Jan-March
  – Fortnightly national steering committee meetings chaired by PM’s Focal Person
• Provincial reviews jointly chaired by CS & PM’s focal person (10 meetings so far this year)
• Pakistan is predominantly self financing its polio eradication program through loans from Islamic Development Bank and World Bank
3a. Maintaining status of areas without polio cases

- Planned SIAs could not be uniformly implemented in 2013
  - Reservoirs had missed, incomplete & prolonged SIAs
  - *Nearly 90% of polio cases in 2013 come from areas with barriers for vaccination*

- Intensified plan for 2014 during low season
  - For the first time in program’s history, 3 NIDs during the first trimester
  - Two SNIDs & 5 targeted SIAs
  - Innovative strategies for polio reservoir
  - *All polio cases in 2014 are from areas with barriers*
SIAs’ Schedule: 1st Half of 2014

Jan 06-08
SIADS

Jan 20-22
NIDs

Feb 10-12
SIADS

Feb 24-26
NIDs

Mar 10-12
SIADS

Mar 24-26
NIDs

Apr 14-16
SNIDs

Apr 28-30
SIADS

May 5-7
SNIDs

May 19-21
SIADS

- **Standard SNIDs:**
  - Priority-1 and Priority-2
  - Adjustment according to evolving epidemiology

- **Standard SIAD:**
  - **All SIADS:** Central KP, Southern KP (till April), Quetta Block,
    Lahore (HRUCs), Rawalpindi (HRUCs), Karachi (HRUCs),
    Hyderabad and FATA
  - **Alternate SIADS:** Entire Karachi, Faisalabad
Duration of virus (WPV cases and Env isolates) circulation*

2011 = 59
- 1-5 months = 30
- 6-11 months = 09
- >12 months = 20

2012 = 36
- 1-5 months = 17
- 6-11 months = 05
- >12 months = 14

2013 = 29
- 1-5 months = 16
- 6-11 months = 04
- >12 months = 09

2014 = 12

*Data as of 18-04-2014
AFP cases with Zero OPV dose, Age 6-59 months
| Sites name                  | Proportion of Positive samples | 2014 | 2014 | 2014 | 2014 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  |
|-----------------------------|--------------------------------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| **PUNJAB**                  |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MULTAN                     |                                | 58%  | 11%  | 6%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ali Town                   |                                | 50%  | 17%  | 8%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Kotla A. Fateh             |                                | 50%  | 8%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Suraj Miani                |                                | 75%  | 8%   | 8%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **LAHORE**                 |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Gulshan Ravi Station       |                                | 53%  | 50%  | 7%   | 11%  | 2%  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Multan Road Station        |                                | 42%  | 42%  | 8%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Outfall Pump Station F     |                                | 58%  | 50%  | 8%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Outfall Pump Station G     |                                | 58%  | 58%  | 0%   | 25%  | 1%  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Outfall Pump Station H     |                                | 8%   | 25%  | 1%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **FAISALABAD**             |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Pump Station 03            |                                | 3%   | 2%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Pump Station 27            |                                | 8%   | 6%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ismail City Road           |                                | 0%   | 0%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **RAWALPINDI**             |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dhok Dallal                |                                | 92%  | 58%  | 50%  | 33%  | 1%  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Safdarabad                 |                                | 92%  | 58%  | 50%  | 33%  | 1%  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **SINDH**                  |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| SUKKUR                     |                                | 41%  | 0%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Makka P.Station            |                                | 38%  | 0%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Miani P.Station            |                                | 44%  | 0%   | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **HYDERABAD**              |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Tulsidas P. Station        |                                | 100% | 58%  | 0%   | 0%   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **ISLAMABAD**              |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| CDA                        |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Sabzi Mandi                |                                |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

Communications & Social Mobilization Indicators

(%) Caregivers knowledge, OPV acceptance & Demand for local outreach - KAP - HORP 2014

- % caregivers saying that a child needs to take polio drops every or most of the time it is offered
- % caregivers saying, at last round child did receive OPV drops
- % caregivers saying giving polio drops to children in neighborhood is very good idea
- % PCR coverage
Communications & Social Mobilization Indicators

Reasons for Not Available Feb & Mar 2014

Feb 2014

- Sleeping: 5%
- within City: 70%
- outside City: 25%

Mar 2014

- Sleeping: 4%
- within City: 73%
- outside City: 23%

Not Available children within City

- Feb: 0, 5000, 10000, 15000, 20000
- Mar: 1000, 2000, 3000, 4000, 5000

Communications & Social Mobilization Indicators

Not Available children outside city & returning

- Feb: 0, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000
- Mar: 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000

Source: Polioinfo Pakistan database
2012-2014

Non Polio AFP Rate By Province/Regions, 2012-2014*

Non Polio AFP rate Up to Week No. 17 ended on 26th April, 2014

^Annualized

2000 children under 15 years of age

Non polio AFP cases/100,000 children <15 years
3b. Aggressive Case Response Strategy, 2013

- Aggressive case response approach in 2013 (for non-reservoir areas)
  - 3 rounds within 4-6 weeks of case confirmation
  - Multi district level (targeting min. 500,000)

- No secondary polio cases reported except TT Singh-Sahiwal region

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Outbreak period (in weeks)

- Reporting week of first case
- Case responses

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WPV/VDPV
4. Reaching Populations on the Move

- Substantial enhancement in transit vaccination points since the start of 2013
- Major focus on the populations coming from areas with barriers for vaccination
- More than 8m vaccinated in 2013 and 3.4m so far in 2014
- Transit strategy is being further streamlined & intensified
5. Situation Review: Reservoirs

- **Karachi & Peshawar**
  - No campaign conducted in one go (4 days) in 2013
  - Staggered approach (8-16 days)
  - Sweep/cluster strategy (multiple teams moving together; contrary to micro-plan)
  - Policemen themselves being targeted
  - Missed Children not covered on same day & catch up (4TH) day

- **Quetta Block**
  - Missed a round of SIAs in Jan.
  - Persistent low SIAs quality, due to management issues
  - *Progress is very fragile*
  - *At risk in the high season*
Principles to overcome challenges in Polio Reservoirs

• Ensuring safety of vaccinators
  – Conduct the campaign in one day (>17000 HR mobilized)
  – Provide enhanced security (14000 security personnel mobilized)

• Successive SIAs in short period to quicken seroconversion

• Rebranding of the program (Sehat ka Insaf in KP, Child health in Khi)

• Reverse misconception about the polio program

• Integrated health care package (routine immunization, health education, medical camps)

• Extensive communication and mass media

• Vaccinating children on the move
PESHAWER: SEHAT KA INSAAF (Justice for Health)

• 18,000/- Streamers
• Leaflets / Flyers
  - 600,295 dengue leaflets
  - 379,386 RI flyers
  - >500,000 flyers in high risk UCs highlighting health messages and polio
• Health Coupons in targeted UCs
  - 200,000 RI coupons
  - 100,000 Measles coupons
• 25,000 hygiene kits
• 4 health camps
  • 2,595 patients treated
Reservoirs: Security Measures

• Provision of safe working environment with cordonning an area rather than police accompanying vaccinators

• Steps
  – Setting up security zone
  – Reconnaissance and targeted operations before the campaign
  – Cordonning of neighborhoods during the campaign
  – Setting up plugging points
  – Mobile Patrolling
  – Ban on Motorbike riding
  – Limitations of mobile phone services

• Required large number of Police Personnel
  – Peshawar (4,792), Charsada (1,900), Mardan (3,000), Swabi (1,220), Karachi (3500)
Outcome of Special Activities

- Several weekly one-day campaigns conducted in security sensitive and epidemiologically HR districts without loss of life
- The initiative in Peshawar replicated in Karachi and expanded to Central KP, and Rawalpindi
- Karachi continues

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<th>Province</th>
<th>District</th>
<th>Target Population</th>
<th>No. of weekly rounds</th>
<th>Total no. of doses</th>
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<td><strong>Total KP</strong></td>
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<td><strong>Grand Total</strong></td>
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</table>
Permanent Transit Points, Karachi and Peshawar

Karachi
Total Functional PTPs = 45

Peshawar
Total Functional PTPs = 41

Children vaccinated

2013 = 1,070,907  2014 = 666,477

2013 = 1,709,588  2014 = 2,217,208
## Environmental Surveillance Results, Reservoirs (Last 52 weeks)

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### Key
- Negative: Green
- Positive: Red
- cVDPV2: Green with checkmark
- cVDPV2+WPV: Red with checkmark
- Under process: Yellow
6. Inaccessible North Waziristan Agency, FATA

N = 208
Median doses = 0 (Range 0 – 15)
Median age = 13 (Range 4 – 120)
84% cases reported with 0 dose
94% cases reported with <4 doses

2013
WPV cases = 35
Sabin2 cases = 41

2014
WPV cases = 40
Sabin2 cases = 06
Permanent Transit Points, KPK and FATA

**KPK**
- Total Functional PTPs = 157

**FATA**
- Total Functional PTPs = 38

Children vaccinated

**2013**
- KPK: 2,094,112
- FATA: 344,942

**2014**
- KPK: 735,825
- FATA: 129,819
Efforts to Reverse the Ban

*(Negotiated Access)*

- Ongoing Advocacy Efforts led by the President & Governor KP
- “Allowing vaccination” included in the peace talks
- Influential Religious Leaders being taken onboard
- PM’s Cell Advocating through Parliamentarians of FATA
Enhanced Civil Military Coordination

• Close collaboration among Political Agents (PAs) & local commanders
• Training of Khasadars (local forces) on vaccination
• Community engagement through ‘Jirgas’
• Transit vaccination posts within tribal agencies
• Establishment of medical camps
• Rehabilitation of paralyzed children by establishing workshops in NWA
Future Plans

• Special focus on reservoir areas and removal of barriers between vaccinators and children
• Maintaining polio free status of districts and areas through quality campaigns
• Providing security to the polio workers during the campaigns
• Introduction of IPV in high risk areas as well as through routine immunization with the support of GAVI from 2015 onward.
• Vaccinating travelers at international airports and ports of the country
• Involvement of Religious scholars and parliamentarians to support the program in true spirit
Summary

• WPV transmission continues in limited areas with substantial barriers to vaccination
  – Around 90% population is living in areas without polio

• Areas without polio cases are maintaining the status
  – There is evidence of improved population immunity in these areas

• The Government of Pakistan is committed to overcome the barriers at the soonest
  – All possible measures are being planned in the coming months
Thank you
Spot / market survey coverage in 2014 SIAs

<table>
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<tr>
<th>Dates</th>
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<th>FATA</th>
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Not conducted

Campaign not conducted
Vaccination at Transit Points serving North Waziristan, FR Bannu; Jan to Apr 2014

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<th>Other Five Transit Points *</th>
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| Total other Transit Points * | 13,413 |

| Total Entry | 36,602 |
| Total Exit  | 21,607 |
| Grand Total | 58,209 |

* Salgazai, Haved, Sardi Khel, Jani Khel Fort and Rocha