Global Measles Update

James L. Goodson, CDC / CGH / GID
Advisory Committee on Immunization Practices
Atlanta, Georgia, June 26, 2014
Overview

- Global Vaccine Action Plan
- Measles and Rubella Strategic Plan and Vision
- Measles and Rubella Targets
- Progress toward Measles Elimination
GVAP approved by the World Health Assembly in 2012

The vision for the Decade of Vaccines (2011–2020) is of a world in which all individuals and communities enjoy lives free from vaccine-preventable diseases.

Global Vaccine Action Plan
2011–2020

Dr. Seth Berkley
Chief Executive Officer
GAVI Alliance

Dr. Margaret Chan
Director General
World Health Organization

Dr. Christopher Elias
President
Global Development Program
Bill & Melinda Gates Foundation

Dr. Anthony Fauci
Director
US National Institute of Allergies and Infectious Diseases

Mr. Anthony Lake
Executive Director
United Nations Children’s Fund (UNICEF)

Ms. Joy Phumaphi
Executive Secretary
African Leaders Malaria Alliance

MEASLES & RUBELLA INITIATIVE

American Red Cross
CDC
UNICEF
United Nations Foundation
World Health Organization
With strong partnerships, resources and political will, we can, and must work together to achieve and maintain the elimination of measles, rubella and CRS globally

Margaret Chan, DG, WHO
Anthony Lake, Executive Director, UNICEF
Timothy E. Wirth, President, UNF
Gail J. McGovern, President & CEO, ARC
Thomas R. Frieden, Director, CDC
Vision

Achieve and maintain a world without measles, rubella and congenital rubella syndrome
Measles and Rubella Targets

**Global targets** by 2015:
- Measles vaccination coverage ≥ 90% national and ≥ 80% district
- Measles reported incidence <5 cases per million
- Measles mortality reduction of 95% vs. 2000

**Global Vaccine Action Plan (GVAP):**
- Measles and rubella elimination in 5 WHO regions by 2020

**Regional targets:**

<table>
<thead>
<tr>
<th>Measles</th>
<th>Elimination goals set:</th>
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<td>2000 AMRO</td>
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<td>2012 WPRO</td>
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<td>2015 EURO, EMRO</td>
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<td>2020 AFRO, SEARO</td>
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<tr>
<th>Rubella</th>
<th>Elimination goals set:</th>
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<td>2010 – AMRO</td>
<td>2015 – EURO</td>
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How far have we gone?
94% Reduction in reported measles cases

Measles global annual reported cases and MCV1 coverage*, 1980-2012

* MCV1 coverage: coverage with first dose of measles-containing vaccine as estimated by WHO and UNICEF
90% Reduction in Estimated Measles Deaths, 1985–2012

During 2000–2012
• 77% decrease in incidence
• 78% decline in deaths
• **13.8 million deaths averted**

Source: WHO/IVB estimates, February 2014
Reported Measles and Rubella Cases and Measles Vaccination Coverage among Infants, Region of the Americas, 1980–2012

Source: Country reports to FCH-IM/PAHO
Global MCV1 Coverage at 84% in 2012

Routine Measles Second Dose

- Global MCV2 coverage 56% in 2012
- Increasing number of countries with MCV2
  - 145 in 2012
  - 149 in 2013
  - 5 more planned for 2014
- Important opportunity for establishing child health platform beyond first-year of life, vaccine catch-up

| Introduced to date (149 countries or 77%) | Planned introductions in 2014 (5 countries or 3%) | Not Available, Not Introduced / No Plans (40 countries or 20%) | Not applicable |
44 Measles Campaigns in 33 Countries in 2013

197 million children reached
24 (55%) achieved ≥95% coverage

36 of 44 SIAs integrated 1 or more other interventions

- Measles (10)
- Measles and OPV (11)
- Measles and Rubella (10)
- Measles, Rubella and OPV (2)
- Vitamin A – 14
- De-worming – 12
- Other interventions – 5

Not Available
Not Applicable

Updated on 13 March 2014
Global Measles and Rubella Laboratory Network: 711 Laboratories in 2013

- N= 690 labs
- + 331 Prefect. Labs
- 2012 Provincial Labs China
- Global Specialised Labs
- National Laboratories
- Regional Reference Labs
- Provinicial Labs China
- Sub-National Labs

191/194 countries served by proficient labs
Of 24 known genotypes, 8 were detected.
Measles Case Distribution by Month and WHO Regions, 2008–2014

This is surveillance data, hence for the last month, the data may be incomplete.
SEAR. India is not included in this graph.
As of 27 May 2013, South Sudan has reassigned to the Africa region (AFR) from the Eastern Mediterranean region (EMR).
Reported Measles Incidence Rate*, May 2013 to Apr 2014 (12M period)

- <1: (83 countries or 43%)
- ≥1 - <5: (28 countries or 14%)
- ≥5 - <10: (11 countries or 6%)
- ≥10 - <50: (43 countries or 22%)
- ≥50: (14 countries or 7%)
- No data reported to WHO HQ: (15 countries or 8%)
- Not applicable: (15 countries or 8%)

*Rate per 1'000'000 population

Data source: surveillance DEF file
Data in HQ as of 10 June 2014
Measles Cases by Month of Rash Onset, Philippines, 2009–2014

- 26,053 suspected measles cases, including 6,050 lab-confirmed
- 42% of confirmed cases were in Metro Manila (National Capital Region)
- Majority of cases among children <5 years of age who were unvaccinated or with unknown vaccination status
- >100 reported measles deaths

*as of March 15, 2014
Source: National Epidemiology Center