Overview

- Global progress
- Regional updates
- Summary
Measles and Rubella Targets

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

**Regional targets:**
- **Measles** Elimination goals:
  - 2000  AMRO
  - 2012  WPRO
  - 2015  EURO, EMRO
  - 2020  AFRO, SEARO

- **Rubella** Elimination goals:
  - 2010 – AMRO, 2015 – EURO

**Global Vaccine Action Plan (GVAP):**
- 2020  Measles and rubella elimination in 5 WHO regions
Global MCV1 coverage has levelled off at 84%
1st Dose measles vaccine coverage by WHO region, 1980-2012

194 WHO Member States. Date of slide: 17 July 2013
• **MCV2 in routine**
  - 2012: in 146 of 194 countries (75%)
  - 2013: Kenya, Rwanda, Sao Tome, Zambia
  - 2014/5: Burkina Faso, Senegal, Malawi, Mozambique, Papua New Guinea, Sierra Leone

• **Measles, MR SIAs**
  - 2012: 112 million reached in 32 countries
  - 2013 (as of October): 64 million reached in 10 countries
  - Problems:
    - Low coverage in some countries
    - Administrative coverage often misleading (survey estimates lower)*

*Source: W. Gong, BMGF, unpublished literature review, 2013
Global RCV coverage has reached 43%
Number of countries using RCV and global coverage with RCV1

New Introductions:
2013: Cambodia, Ghana, Rwanda, Senegal,
2014 (planned):
   Bangladesh, Vietnam, Burkina Faso,
   United Republic of Tanzania

Immunization Vaccines and Biologicals, (IVB), World Health Organization
77% Reduction in Global Measles Incidence, 2000-2012

Measles incidence per million population (log scale)

Projected 10-yr trend
Trend to reach goal

2015 Goal

- GOAL
- GLOBAL
- needed
- AFR
- EMR
- EUR
- SEAR
- WPR
- AMR
Reduction in estimated measles deaths, 1985 - 2012

Source: WHO/IVB provisional estimates, 21 October 2013

78% drop from 2000-2012
Regional Updates
The Americas
Measles vaccination coverage among children <1 year of age* and reported measles and rubella cases, 1970-2012

*MR in children aged 1 year as countries introduced measles-rubella containing vaccines

Source: Country reports to FCH-IM/PAHO.
Reported measles importations by genotype
The Americas, 2012

Source: Country reports to PAHO/WHO (as of EW 3/2013) and the Global Measles Laboratory at the US Centers for Disease Control (CDC)
Western Pacific Region
Measles Cases by Month and Country, 2008-August 2013

Source: Measles and Rubella monthly country reports to WHO by 20 September 2013
China
Measles cases by age group and vaccination status, January - May 2013

Source: National surveillance report as of May 2013
European Region
Measles Case Distribution by Month & Country, 2008-2013

Data source: surveillance DEF file
Data in HQ as of 5 Aug 2013
Percentage of reported measles cases by age group
January-June 2013

WHO European Region (n=20,533)

Turkey (n=6,533)

Georgia (n=5,783)

United Kingdom (n=4,750)

Germany (n=1,097)
European Region
Rubella Cases by Month & Country, 2008- August 2013

*Monthly reported cases to the CISID, WHO Europe
Eastern Mediterranean Region
Reported measles cases and MCV1 coverage, 1980-2012

Measles cases
Measles coverage (WHO-UNICEF estimate)
Eastern Mediterranean Region
Measles Cases by Month and Country, 2008-2013

Data source: monthly measles surveillance DEF file
Data in HQ as of 5 Aug 2013
South East Asian Region

Reported Measles Cases\(^1\) and MCV1 Coverage\(^2\), SEAR, 2000–2012

\(^1\) WHO/UNICEF JRF
\(^2\) WHO/UNICEF estimates, 2013
India: Measles 2\textsuperscript{nd} dose introduction and impact of SIAs on Measles outbreaks

14 states with MCV1 <80%: through SIAs; 21 states with MCV1 \geq 80%: through routine

No. and size of measles outbreaks has decreased after SIAs in states in phases 1, 2 & 3*

* Outbreaks and cases of Gujarat (GR), Madhya Pradesh (MP) and Rajasthan (RJS) states that had laboratory supported Measles surveillance for year 2010 and 2013
MCV1 Coverage for SEAR countries.

African Region
Measles case reports & MCV1 coverage, 1980 - 2012
Democratic Republic of Congo (DRC)
Weekly trends of measles reporting by province, 2010 – 2013

Age distribution
65% <5 years
Nigeria
Suspected and Confirmed Measles Cases,  Weeks 1-17, 2013

Age distribution
80% <5 years

Confirmed (n=20258)
Suspected (n=22742)

Source: Measles case based database as of 26 Apr 2013
Summary

Assessment by the SAGE Working Group on Measles and Rubella
Major global challenge – weak immunization systems

- 21 million infants missed MCV1 in 2012
- 2/3 live in
  - India
  - Nigeria
  - Ethiopia
  - Indonesia
  - Pakistan
  - DRC

21 million infants not immunized (MCV1), 2012
Key Challenges by WHO Region

• Americas – risk of importations
• W. Pacific – completing measles elimination in China
• Europe – competing priorities, susceptible adults
• E. Med – security limiting access
• SE Asia – heterogeneous coverage in large countries (e.g. India, Indonesia)
• Africa – weak immunization & health systems
<table>
<thead>
<tr>
<th>Indicator</th>
<th>2015 Target</th>
<th>2012</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCV1 coverage</td>
<td>90%</td>
<td>84%</td>
<td>No progress since 2009</td>
</tr>
<tr>
<td>Measles incidence (per million)</td>
<td>&lt;5 /million</td>
<td>33.3</td>
<td>Rate of decrease too slow</td>
</tr>
<tr>
<td>Measles mortality reduction</td>
<td>95%</td>
<td>78% (provisional)</td>
<td>Rate of decrease too slow</td>
</tr>
<tr>
<td>WHO Region</td>
<td>Elimination Target</td>
<td>2012 MCV1 coverage</td>
<td>Measles/Rubella incidence (/million)</td>
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<tr>
<td>AMR</td>
<td>2000 – measles 2010 – rubella</td>
<td>94%</td>
<td>0.2 0.015</td>
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<td>WPR</td>
<td>2012 – measles</td>
<td>97%</td>
<td>5.9</td>
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<tr>
<td>EUR</td>
<td>2015 – measles 2015 – rubella</td>
<td>94%</td>
<td>31.0 32.8</td>
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<tr>
<td>EMR</td>
<td>2015 – measles</td>
<td>83%</td>
<td>59.2</td>
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<tr>
<td>SEAR</td>
<td>2020 – measles</td>
<td>78%</td>
<td>25.3</td>
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<tr>
<td>AFR</td>
<td>2020 – measles</td>
<td>73%</td>
<td>123.5</td>
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Draft Recommendations

- SAGE commends countries and Regions for progress being made. However, based on current performance, the global 2015 measles control targets as well as elimination targets in EUR, EMR and AFR will not be met on time.
- 4 Regions still need to establish rubella elimination targets. SAGE urges the AFR, EMR, EUR and SEAR to work towards establishing rubella elimination targets.
- The GVAP coverage targets of 90% nationally and 80% in every district are insufficient to achieve measles elimination. This coverage target should be raised to 95% at both national and district level.
Questions for SAGE

• Does SAGE agree with the assessments of the working group?
• Does SAGE endorse the 3 draft recommendations?
• What additional strategies, tactics, and/or innovations are needed to get back on track, or remain on track?