Country Profiles for Immunization

Version 2.0

East Asia and Pacific Regional Office
The aim of the *Country Profiles for Immunization* in East Asia and the Pacific is to summarize country progress in two key areas of immunization systems: improving *coverage & equity* and enhancing *supply chain and logistics management systems*.

The document has been developed by the UNICEF East Asia and Pacific Regional Office (EAPRO), with the support from the UNICEF Country Offices in the Region. The analysis is conducted based on the data available to EAPRO; and in the process some common and country specific information gaps are identified, requiring proactive actions at both regional and country levels to close those gaps.

This is an updated version to the first version published in 2016. The primary users of this document are health teams in UNICEF country and regional offices in East Asia and the Pacific. The document aims to assist the concerned teams in deepening their understanding of immunization system performance, identifying programmatic gaps and sharpening the focus of their technical assistance across the Region. This document is also accessible to government counterparts and international partners.

The health team in EAPRO plans to update the analysis on an annual basis, and welcome suggestions and feedback.
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All data in this document are for 2016 unless specified otherwise.

The boundaries and names shown and the designations used on maps do not imply the expression of any opinion of UNICEF 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 lines on maps represent approximate border lines for which there may not yet be full agreement.
WHO/UNICEF COVERAGE ESTIMATES FOR DTP3 (2016)

GLOBAL VACCINE ACTION PLAN MILESTONES

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. National coverage</td>
<td>≥90% for DTP3 (WHO/UNICEF estimates)</td>
</tr>
<tr>
<td>2. Dropout rates between DTP1 and DTP3</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>3. Percentage of districts with ≥ 80% DTP3 coverage</td>
<td>100%</td>
</tr>
<tr>
<td>4. Reduction in coverage gaps between wealth quintiles</td>
<td>&lt;20% difference in DTP3 coverage between Q1 and Q5</td>
</tr>
<tr>
<td>5. Quality of data</td>
<td>Accessed as high</td>
</tr>
</tbody>
</table>
**EAST ASIA AND THE PACIFIC**

**EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES**

### 2010-2012 (13 COUNTRIES)*

<table>
<thead>
<tr>
<th>Criteria (E1-E9)</th>
<th>High (%)</th>
<th>Low (%)</th>
<th>Composite (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1 Vaccine &amp; commodity arrival procedures</td>
<td>96%</td>
<td>33%</td>
<td>68%</td>
</tr>
<tr>
<td>E2 Vaccine storage temperatures</td>
<td>100</td>
<td>22%</td>
<td>63%</td>
</tr>
<tr>
<td>E3 Cold &amp; dry storage capacity</td>
<td>100</td>
<td>51%</td>
<td>71%</td>
</tr>
<tr>
<td>E4 Buildings, cold chain equipment &amp; transport</td>
<td>97%</td>
<td>1%</td>
<td>77%</td>
</tr>
<tr>
<td>E5 Maintenance</td>
<td>100</td>
<td>14%</td>
<td>53%</td>
</tr>
<tr>
<td>E6 Stock management</td>
<td>99%</td>
<td>32%</td>
<td>50%</td>
</tr>
<tr>
<td>E7 Effective distribution</td>
<td>100</td>
<td>1%</td>
<td>59%</td>
</tr>
<tr>
<td>E8 Good vaccine management practices</td>
<td>100</td>
<td>50%</td>
<td>63%</td>
</tr>
<tr>
<td>E9 Information systems and supportive management functions</td>
<td>99%</td>
<td>27%</td>
<td>57%</td>
</tr>
</tbody>
</table>

### 2014-2017 (13 COUNTRIES)*

<table>
<thead>
<tr>
<th>Criteria (E1-E9)</th>
<th>High (%)</th>
<th>Low (%)</th>
<th>Composite (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1 Vaccine &amp; commodity arrival procedures</td>
<td>100</td>
<td>22%</td>
<td>64%</td>
</tr>
<tr>
<td>E2 Vaccine storage temperatures</td>
<td>100</td>
<td>22%</td>
<td>66%</td>
</tr>
<tr>
<td>E3 Cold &amp; dry storage capacity</td>
<td>100</td>
<td>52%</td>
<td>81%</td>
</tr>
<tr>
<td>E4 Buildings, cold chain equipment &amp; transport</td>
<td>97%</td>
<td>27%</td>
<td>76%</td>
</tr>
<tr>
<td>E5 Maintenance</td>
<td>100</td>
<td>14%</td>
<td>65%</td>
</tr>
<tr>
<td>E6 Stock management</td>
<td>99%</td>
<td>14%</td>
<td>59%</td>
</tr>
<tr>
<td>E7 Effective distribution</td>
<td>100</td>
<td>14%</td>
<td>60%</td>
</tr>
<tr>
<td>E8 Good vaccine management practices</td>
<td>100</td>
<td>14%</td>
<td>75%</td>
</tr>
<tr>
<td>E9 Information systems and supportive management functions</td>
<td>99%</td>
<td>27%</td>
<td>49%</td>
</tr>
</tbody>
</table>

* 2010: Kiribati, Lao PDR
  2011: Democratic People’s Republic of Korea, Indonesia, Myanmar, Papua New Guinea, Philippines, Timor-Leste
  2012: Cambodia, Fiji, Mongolia, Solomon Islands, Viet Nam

The nine areas (criteria E1-E9) of effective vaccine management are:
- **E1**: Vaccine & commodity arrival procedures
- **E2**: Vaccine storage temperatures
- **E3**: Cold & dry storage capacity
- **E4**: Buildings, cold chain equipment & transport
- **E5**: Maintenance
- **E6**: Stock management
- **E7**: Effective distribution
- **E8**: Good vaccine management practices
- **E9**: Information systems and supportive management functions

### STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT (13 COUNTRIES)†

<table>
<thead>
<tr>
<th>Criteria</th>
<th>2010-2012</th>
<th>2014-2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nationwide CC inventory</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CC rehabilitation and expansion plan</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>National CC equipment maintenance plan</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Continuous temperature monitoring system</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Country specific vaccine wastage data</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Application for CC Equipment Optimization Platform developed</td>
<td>Not applicable</td>
<td>Yes</td>
</tr>
<tr>
<td>Cold room temperature mapped at central level</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Temperature monitoring study in route conducted</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

† Cambodia, China, Democratic People’s Republic of Korea, Indonesia, Lao PDR, Mongolia, Myanmar, Papua New Guinea, Philippines, Solomon Islands, Timor-Leste, Vanuatu and Viet Nam

**2014: China, Kiribati, Lao PDR**
**2015: Cambodia, Democratic People’s Republic of Korea, Indonesia, Mongolia, Myanmar, Timor-Leste, Vanuatu, Viet Nam**
**2016: Papua New Guinea**
**2017: Philippines**
**CAMBODIA**

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 15,939,563
- Total births: 388,473
- Total surviving infants: 350,537
- Annual population growth (%): 1.49
- Urban population: 3,338,486 (21%)
- Rural population: 12,601,077 (79%)
- Slum population (2014): 1,740,100
- Slum as % of urban population (2014): 55
- # Cities/towns > 300,000 population: 1
- Under-5 mortality per 1,000 live births: 30.6
- GNI per capita (US$): 1,140
- Multi-year plan for immunization: 2016-2020
- % of total expenses on vaccines financed by government: 28
- % of total expenses for routine immunization financed by government: 20

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY PROVINCE**

2014

2015

2016

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.

*District-level maps are not available due to the evolution of operational districts in recent years.*
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management functions

**FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE** (DHS 2014)

**FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS)**

<table>
<thead>
<tr>
<th></th>
<th>2010 (DHS)</th>
<th>2014 (DHS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>Male</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>Type of Residence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>Rural</td>
<td>84%</td>
<td>84%</td>
</tr>
<tr>
<td>Province</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mondol Kiri</td>
<td>40%</td>
<td>56%</td>
</tr>
<tr>
<td>Takeo</td>
<td>56%</td>
<td>91%</td>
</tr>
<tr>
<td>Mother’s College Education</td>
<td>92%</td>
<td>92%</td>
</tr>
<tr>
<td>Wealth Quintile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poorest 20%</td>
<td>74%</td>
<td>93%</td>
</tr>
<tr>
<td>Richest 20%</td>
<td>93%</td>
<td>93%</td>
</tr>
</tbody>
</table>

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2015)**

- **High**
  - E1: 86%
  - E2: 93%
  - E3: 93%
  - E4: 92%
  - E5: 96%
  - E6: 93%
  - E7: 89%
  - E8: 93%
  - E9: 93%
- **Low**
  - E1: 77%
  - E2: 83%
  - E3: 86%
  - E4: 86%
  - E5: 92%
  - E6: 92%
  - E7: 89%
  - E8: 93%
  - E9: 93%
- **Composite**
  - E1: 86%
  - E2: 71%
  - E3: 67%
  - E4: 75%
  - E5: 73%
  - E6: 56%
  - E7: 88%
  - E8: 58%
  - E9: 58%

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

- **1. Nationwide Cold Chain Inventory**
  - Updated annually
  - (Most recent in 2016)
- **2. Cold Chain Rehabilitation and Expansion Plan**
  - Developed in 2016
- **3. National Cold Chain Equipment Maintenance Plan**
  - Yes, using national and GAVI-HSS budget
- **4. Establishment of continuous temperature monitoring system**
  - Down to service delivery level for 14 provinces and districts for 11 provinces
- **5. Country specific vaccine wastage data**
  - Yes, for all vaccines
- **6. Application for Cold Chain Equipment Optimization Platform developed**
  - Not applicable
- **7. Cold room temperature mapped at central level**
  - No
- **8. Temperature Monitoring Study in route conducted**
  - Yes

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**

- **Routine outreach** 32%
- **Private Sector** 1%
- **Public services** 99%
- **Health facilities** 68%


**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

![Graph showing coverage estimates from 1980 to 2016.]

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 1,408,922,350
- Total births: 16,550,000
- Total surviving infants: Data not available
- Annual population growth (%): 0.39
- Urban population: 799,964,410 (57%)
- Rural population: 608,957,940 (43%)
- Slum population (2014): 191,106,700
- Slum as % of urban population (2014): 25
- # Cities/towns > 300,000 population: 398
- Under-5 mortality per 1,000 live births: 9.9
- GNI per capita (US$): 8,260
- Multi-year plan for immunization: 2016-2020
- % of total expenses on vaccines financed by government: 100
- % of total expenses for routine immunization financed by government: 100

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

- 2014
- 2015
- 2016

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

- 2012
- 2013
- 2014
- 2015
- 2016

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

- 2012
- 2013
- 2014
- 2015
- 2016

For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management

FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE

FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS

FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2014)*

FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

1. Nationwide Cold Chain Inventory
   - Updated monthly (most recent in 2016)
2. Cold Chain Rehabilitation and Expansion Plan
   - At provincial level
3. National Cold Chain Equipment Maintenance Plan
   - At provincial level
4. Establishment of continuous temperature monitoring system
   - Down to service delivery level
5. Country specific vaccine wastage data
   - No
6. Application for Cold Chain Equipment Optimization Platform developed
   - Not applicable
7. Cold room temperature mapped at
   - No
8. Temperature Monitoring Study in route conducted
   - Not applicable

FIGURE 9. IMMUNIZATION SERVICES DELIVERY

- Health facilities 80%
- Home-to-home 4%
- Routine outreach 16%
**Country/Demographic Background**

- Total population: 25,281,674
- Total births: 352,400
- Total surviving infants: Data not available
- Annual population growth (%): 0.47
- Urban population: 15,434,020 (61%)
- Rural population: 9,847,654 (39%)
- Slum population: Data not available
- Slum as % of urban population: Data not available
- # Cities/towns > 300,000 population: 5
- Under-5 mortality per 1,000 live births: 20
- GNI per capita (US$): Data not available
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available

**Figure 1. WHO/UNICEF Coverage Estimates 1980-2016**

- DTP1-DTP3 drop-out rates > 10% in 2016: 0%

**Figure 2. DTP3 Coverage by District**

- 2014
- 2015
- 2016

**Figure 3. DTP3 Coverage by % of Districts**

- Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016: 0%

**Figure 4. MCV1 Coverage by % of Districts**

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
The nine areas (criteria E1-E9) of effective vaccine management are:

- E1 Vaccine & commodity arrival procedures
- E2 Vaccine storage temperatures
- E3 Cold & dry storage capacity
- E4 Buildings, cold chain equipment & transport
- E5 Maintenance
- E6 Stock management
- E7 Effective distribution
- E8 Good vaccine management practices
- E9 Information systems and supportive management functions
**INDONESIA**

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 258,552,717
- Total births: 4,882,400
- Total surviving infants: Data not available
- Annual population growth (%): 1.06
- Urban population: 140,824,151 (54%)
- Rural population: 117,728,556 (46%)
- Slum population (2014): 29,211,800
- Slum as % of urban population (2014): 22
- # Cities/towns > 300,000 population: 28
- Under-5 mortality per 1,000 live births: 26.4
- GNI per capita (US$): 3,400
- Multi-year plan for immunization: 2015-2019
- National communication strategy for routine immunization: 2013-2015
- % of total expenses on vaccines financed by government: 90
- % of total expenses for routine immunization financed by government: 88

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**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

- 1980: 90-94% coverage
- 1988: 80-89% coverage
- 1996: 50-79% coverage
- 2016: <50% coverage

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**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

- 2014: 58/514 (11%)
- 2015: 9/14 (64%)
- 2016: 1/4 (25%)

---

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

- 2012: 58%
- 2013: 49%
- 2014: 42%
- 2015: 38%
- 2016: 39%

---

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

- 2012: 64%
- 2013: 45%
- 2014: 41%
- 2015: 35%
- 2016: 37%

---

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management functions

The figure 5 displays the disparity in DTP3 coverage (for 12-59 months) by residence and wealth quintile (DHS 2012). The figure 6 shows the disparity in DTP3 coverage (for 12-23 months) by characteristics (DHS 2007 and 2012). The figure 7 illustrates the effective vaccine management (EVM) assessment scores (2015). The figure 8 presents the status of immunization supply chain management.

The table below summarizes the available data:

<table>
<thead>
<tr>
<th>Criteria/Availability</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Nationwide Cold Chain Inventory</td>
<td>Updated in 2014-2016</td>
</tr>
<tr>
<td>2. Cold Chain Rehabilitation and Expansion Plan</td>
<td>Developed in 2015</td>
</tr>
<tr>
<td>3. National Cold Chain Equipment Maintenance Plan</td>
<td>Yes</td>
</tr>
<tr>
<td>4. Establishment of continuous temperature monitoring system</td>
<td>Down to service delivery level</td>
</tr>
<tr>
<td>5. Country specific vaccine wastage data</td>
<td>Estimates at national and provincial levels used; Specific wastage data is collected at every end of year</td>
</tr>
<tr>
<td>6. Application for Cold Chain Equipment Optimization Platform developed</td>
<td>Not applicable</td>
</tr>
<tr>
<td>7. Cold room temperature mapped at central level</td>
<td>Will be conducted in 2017-2018</td>
</tr>
<tr>
<td>8. Temperature Monitoring Study in route conducted</td>
<td>Yes, in 2013</td>
</tr>
</tbody>
</table>
**LAO PEOPLE’S DEMOCRATIC REPUBLIC**

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 7,146,206
- Total births: 194,026
- Total surviving infants: 183,962
- Annual population growth (%): 1.45
- Urban population: 2,833,757 (40%)
- Rural population: 4,312,449 (60%)
- Slum population (2014): 812,900
- Slum as % of urban population (2014): 31
- # Cities/towns > 300,000 population: 1
- Under-5 mortality per 1,000 live births: 63.9
- GNI per capita (US$): 2,150
- Multi-year plan for immunization: 2016-2020
- % of total expenses on vaccines financed by government (2015): 23
- % of total expenses for routine immunization financed by government (2015): 37

---

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1**: Vaccine & commodity arrival procedures
- **E2**: Vaccine storage temperatures
- **E3**: Cold & dry storage capacity
- **E4**: Buildings, cold chain equipment & transport
- **E5**: Maintenance
- **E6**: Stock management
- **E7**: Effective distribution
- **E8**: Good vaccine management practices
- **E9**: Information systems and supportive management functions

FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (MICS 2011-12)

- **Urban**
  - Q1 (Poorest): 49%
  - Q2: 55%
  - Q3: 51%
  - Q4: 63%
  - Q5 (Richest): 77%
- **Rural**
  - Q1: 43%
  - Q2: 44%
  - Q3: 70%
  - Q4: 80%
  - Q5: 72%

FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS

- **Gender**
  - Female: 41%
  - Male: 45%
- **Type of Residence**
  - Rural: 33%
  - Urban: 56%
- **Province**
  - Phongsaly: 25%
  - Xayaboury: 91%
- **Mother’s College Education**
  - No Education: 30%
  - College: 57%
- **Wealth Quintile**
  - Poorest 20%: 29%
  - Richest 20%: 81%

FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2014)

- **E1**: 65% 83% 92% 81% 69% 69% 82% 81% 67%
- **E2**: 65% 55% 79% 73% 53% 44% 49% 76% 36%
- **E3**: 65% 71% 85% 79% 61% 56% 72% 79% 49%

FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

- **1. Nationwide Cold Chain Inventory**
  - Updated annually (most recent in 2016-2017)
- **2. Cold Chain Rehabilitation and Expansion Plan**
  - Developed in 2015
- **3. National Cold Chain Equipment Maintenance Plan**
  - Yes
- **4. Establishment of continuous temperature monitoring system**
  - All levels using FT2
- **5. Country specific vaccine wastage data**
  - No
- **6. Application for Cold Chain Equipment Optimization Platform developed**
  - Application being developed
- **7. Cold room temperature mapped at central level**
  - Yes
- **8. Temperature Monitoring Study in route conducted**
  - No

FIGURE 9. IMMUNIZATION SERVICES DELIVERY

- **Others**
  - 48%
- **Health facilities**
  - 52%
- **Public services**
  - 100%

FIGURE 2. DTP3 COVERAGE BY DISTRICT

FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.

Total population: 31,105,696
Total births: 521,136
Total surviving infants: Data not available
Annual population growth (%): 1.35
Urban population: 23,444,458 (75%)
Rural population: 7,661,238 (25%)
Slum population: Data not available
Slum as % of urban population: Data not available

# Cities/towns > 300,000 population: 10
Under-5 mortality per 1,000 live births: 8.3
GNI per capita (US$): 9,850
Multi-year plan for immunization: None
% of total expenses on vaccines financed by government: Data not available
% of total expenses for routine immunization financed by government: Data not available

Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016: 0

Data/Maps Not Available
The nine areas (criteria E1-E9) of effective vaccine management are:

- E1 Vaccine & commodity arrival procedures
- E2 Vaccine storage temperatures
- E3 Cold & dry storage capacity
- E4 Buildings, cold chain equipment & transport
- E5 Maintenance
- E6 Stock management
- E7 Effective distribution
- E8 Good vaccine management practices
- E9 Information systems and supportive management functions

**FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE**

**FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS**

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES**

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

- 1. Nationwide Cold Chain Inventory
- 2. Cold Chain Rehabilitation and Expansion Plan
- 3. National Cold Chain Equipment Maintenance Plan
- 4. Establishment of continuous temperature monitoring system
- 5. Country specific vaccine wastage data
- 6. Application for Cold Chain Equipment Optimization Platform developed
- 7. Cold room temperature mapped at central level
- 8. Temperature Monitoring Study in route conducted

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**
**Country/Demographic Background**

- **Total population:** 3,119,935
- **Total births:** 78,681
- **Total surviving infants:** 78,194
- **Annual population growth (%):** 2
- **Urban population:** 2,131,823 (68%)
- **Rural population:** 988,112 (32%)
- **Slum population (2014):** 875,600
- **Slum as % of urban population (2014):** 43
- **# Cities/towns > 300,000 population:** 1
- **Under-5 mortality per 1,000 live births:** 17.9
- **GNI per capita (US$):** 3,550
- **Multi-year plan for immunization:** 2011-2015
- **% of total expenses on vaccines financed by government:** 99
- **% of total expenses for routine immunization financed by government:** 95

---

**Figure 1. WHO/UNICEF Coverage Estimates 1980-2016**

**Figure 2. DTP3 Coverage by District**

**Figure 3. DTP3 Coverage by % of Districts**

**Figure 4. MCV1 Coverage by % of Districts**

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
The nine areas (criteria E1-E9) of effective vaccine management are:

- E1 Vaccine & commodity arrival procedures
- E2 Vaccine storage temperatures
- E3 Cold & dry storage capacity
- E4 Buildings, cold chain equipment & transport
- E5 Maintenance
- E6 Stock management
- E7 Effective distribution
- E8 Good vaccine management practices
- E9 Information systems and supportive management functions

**FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (MICS 2013-14)**

*Harmonized Averages:*
- **Q1 (Poorest)**: 91%, 88%
- **Q2**: 90%, 90%
- **Q3**: 89%, 88%
- **Q4**: 93%, 95%
- **Q5 (Richest)**: 95%, 95%

**FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS**

*2010 (MICS) vs. 2013-14 (MICS)*

- **Gender**
  - Female: 92%, 93%
  - Male: 93%, 93%

- **Type of Residence**
  - Rural: 91%, 92%
  - Urban: 94%, 94%

- **Region**
  - Western: 89%, 87%
  - Ulaanbaatar: 95%, 95%

- **Mother’s College Education**
  - No Education: 91%, 91%
  - College: 97%, 97%

- **Wealth Quintile**
  - Poorest 20%: 91%, 94%
  - Richest 20%: 96%, 97%

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2015)**

- **High**
  - E1: 96%, 93%
  - E2: 96%, 96%
  - E3: 96%, 90%
  - E4: 92%, 92%
  - E5: 98%, 86%
  - E6: 96%, 86%
  - E7: 99%, 79%

- **Low**
  - E1: 96%, 83%
  - E2: 83%, 83%
  - E3: 83%, 82%
  - E4: 87%, 87%
  - E5: 74%, 88%
  - E6: 88%, 53%

- **Composite**
  - E1: 96%, 87%
  - E2: 91%, 86%
  - E3: 87%, 86%
  - E4: 87%, 93%
  - E5: 82%, 91%
  - E6: 91%, 69%

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

1. **Nationwide Cold Chain Inventory**
   - Updated annually (most recent in 2016)

2. **Cold Chain Rehabilitation and Expansion Plan**
   - 2011-2015

3. **National Cold Chain Equipment Maintenance Plan**
   - No

4. **Establishment of continuous temperature monitoring system**
   - Yes, down to select provinces and suoms

5. **Country specific vaccine wastage data**
   - Yes, for all vaccines.

6. **Application for Cold Chain Equipment Optimization Platform developed**
   - Not applicable

7. **Cold room temperature mapped at central level**
   - Yes

8. **Temperature Monitoring Study in route conducted**
   - No

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**

- **Routine outreach sites**
  - 10%

- **Health facilities**
  - 90%

- **Public services**
  - 100%
**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 54,590,588
- Total births: 942,400
- Urban population: 18,915,638 (35%)
- Rural population: 35,674,950 (65%)
- Slum population (2014): 7,389,400
- Slum as % of urban population (2014): 41
- Under-5 mortality per 1,000 live births: 50.8
- GNI per capita (US$ 2015): 1,190
- Multi-year plan for immunization: 2017-2021

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
**FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (DHS 2015)**

**FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS**

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2015)**

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

1. Nationwide Cold Chain Inventory  
   Available?  
   Updated annually (most recent in 2016)

2. Cold Chain Rehabilitation and Expansion Plan  
   Available?  
   2018-2019

3. National Cold Chain Equipment Maintenance Plan  
   Available?  
   Yes

4. Establishment of continuous temperature monitoring system  
   Available?  
   All levels using fridge tags; Central Cold Store and sub-depots equipped with central temperature monitoring units

5. Country specific vaccine wastage data  
   Available?  
   Data compiled on annual basis mainly for all vaccines; Efforts underway to integrate monthly reporting with service coverage reports

6. Application for Cold Chain Equipment Optimization Platform developed  
   Available?  
   Approved and CCE being deployed

7. Cold room temperature mapped at central level  
   Available?  
   Yes

8. Temperature Monitoring Study in route conducted  
   Available?  
   Planned for 2018

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**

The nine areas (criteria E1-E9) of effective vaccine management are:
- E1 Vaccine & commodity arrival procedures
- E2 Vaccine storage temperatures
- E3 Cold & dry storage capacity
- E4 Buildings, cold chain equipment & transport
- E5 Maintenance
- E6 Stock management
- E7 Effective distribution
- E8 Good vaccine management practices
- E9 Information systems and supportive management functions

**DATA NOT AVAILABLE**
**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 7,788,400
- Total births: 271,843
- Total surviving infants: 256,402
- Annual population growth (%): 2.01
- Urban population: 1,015,499 (13%)
- Rural population: 6,772,901 (87%)
- Slum population: Data not available
- Slum as % of urban population: Data not available
- # Cities/towns > 300,000 population: 1
- Under-5 mortality per 1,000 live births: 54.3
- GNI per capita (US$ 2014): 2,160
- Multi-year plan for immunization: 2016-2020
- % of total expenses on vaccines financed by government: 41
- % of total expenses for routine immunization financed by government: 34

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

- 2014
- 2015
- 2016

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

- 2012
- 2013
- 2014
- 2015
- 2016

- >=95%
- 90-94%
- 80-89%
- 50-79%
- <50%

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

- 2012
- 2013
- 2014
- 2015
- 2016

- >=95%
- 90-94%
- 80-89%
- 50-79%
- <50%

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE

FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS

FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2016)

FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

FIGURE 9. IMMUNIZATION SERVICES DELIVERY

The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management functions
PHILIPPINES

COUNTRY/DEMOGRAPHIC BACKGROUND

- Total population: 103,508,697
- Total births: 2,800,198
- Total surviving infants: Data not available
- Annual population growth (%): 1.51
- Urban population: 45,842,660 (44%)
- Rural population: 57,666,037 (56%)
- Slum population (2014): 17,055,400
- Slum as % of urban population (2014): 38
- # Cities/towns > 300,000 population: 18
- Under-5 mortality per 1,000 live births: 27.1
- GNI per capita (US$): 3,580
- Multi-year plan for immunization: 2016-2022
- % of total expenses on vaccines financed by government: 100
- % of total expenses for routine immunization financed by government: 100
- No Report
- < 50%
- 50 - 79%
- 80 - 89%
- >= 90%


FIGURE 2. DTP3 COVERAGE BY DISTRICT

FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS

2014

2015

2016

FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS

- >=95% 18 24 25 3 35
- 90-94% 9 6 8 2 13
- 80-89% 24 22 29 9 28
- 50-79% 33 28 30 68 23
- <50% 2 6 4 18 1

Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016: 192/192 (100%)

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management functions

**FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (DHS 2013)**

- Q1 (Poorest): Urban 77%, Rural 70%
- Q2: Urban 93%, Rural 83%
- Q3: Urban 91%, Rural 82%
- Q4: Urban 86%, Rural 85%
- Q5 (Richest): Urban 92%, Rural 93%

**FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS**

- **Gender**
  - Female: 2008 (DHS) 84%, 2013 (DHS) 87%
  - Male: 2008 (DHS) 79%, 2013 (DHS) 83%

- **Type of Residence**
  - Urban: 2008 (DHS) 83%, 2013 (DHS) 85%
  - Rural: 2008 (DHS) 85%, 2013 (DHS) 87%

- **Province**
  - ARMM: 2008 (DHS) 41%, 2013 (DHS) 85%
  - E, Visayas: 2008 (DHS) 15%, 2013 (DHS) 93%

- **Mother’s College Education**
  - College: 2008 (DHS) 36%, 2013 (DHS) 93%

- **Wealth Quintile**
  - Poorest 20%: 2008 (DHS) 70%, 2013 (DHS) 77%
  - Richest 20%: 2008 (DHS) 91%, 2013 (DHS) 93%

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2017)**

- **High**

- **Low**

- **Composite**

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN**

- **Available?**
  - 1. Nationwide Cold Chain Inventory: Updated in 2014
  - 2. Cold Chain Rehabilitation and Expansion Plan: Updated in 2014
  - 3. National Cold Chain Equipment Maintenance Plan: No
  - 4. Establishment of continuous temperature monitoring system: Down to select provincial levels
  - 5. Country specific vaccine wastage data: No
  - 6. Application for Cold Chain Equipment Optimization Platform developed: Not applicable
  - 7. Cold room temperature mapped at central level: Yes
  - 8. Temperature Monitoring Study in route conducted: No

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**

- **Others** 10%
- **Health facilities** 90%
- **Public services** 10%
- **Private sector** 10%
**THAILAND**

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 67,540,824
- Total births: 688,600
- Total surviving infants: Data not available
- Annual population growth (%): 0.22
- Urban population: 34,810,313 (52%)
- Rural population: 32,730,511 (48%)
- Slum population (2014): 8,264,000
- Slum as % of urban population (2014): 25%
- # Cities/towns > 300,000 population: 9
- Under-5 mortality per 1,000 live births: 12.2
- GNI per capita (US$): 5,640
- Multi-year plan for immunization: 2013-2016
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available

**DISTRICT DATA NOT AVAILABLE AT NATIONAL LEVEL**

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2015**

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
The nine areas (criteria E1-E9) of effective vaccine management are:

1. Vaccine & commodity arrival procedures
2. Vaccine storage temperatures
3. Cold & dry storage capacity
4. Buildings, cold chain equipment & transport
5. Maintenance
6. Stock management
7. Effective distribution
8. Good vaccine management practices
9. Information systems and supportive management functions

FIGURE 5. DISPARIETY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (MICS 2012)

FIGURE 6. DISPARIETY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS

FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES

FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

Available?
1. Nationwide Cold Chain Inventory
2. Cold Chain Rehabilitation and Expansion Plan
3. National Cold Chain Equipment Maintenance Plan
4. Establishment of continuous temperature monitoring system
5. Country specific vaccine wastage data
6. Application for Cold Chain Equipment Optimization Platform developed
7. Cold room temperature mapped at central level
8. Temperature Monitoring Study in route conducted

FIGURE 9. IMMUNIZATION SERVICES DELIVERY

FIGURE 2. DTP1-DTP3 drop-out rates > 10% in 2016: 0

FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management functions

**FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (DHS 2009-10)**

**FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS (2009-10 (DHS))**

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT Scores (2015)**

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Available?</th>
</tr>
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<tbody>
<tr>
<td>1. Nationwide Cold Chain Inventory</td>
<td>Updated annually (most recent in 2017)</td>
</tr>
<tr>
<td>2. Cold Chain Rehabilitation and Expansion Plan</td>
<td>Developed in 2014</td>
</tr>
<tr>
<td>3. National Cold Chain Equipment Maintenance Plan</td>
<td>No</td>
</tr>
<tr>
<td>4. Establishment of continuous temperature monitoring system</td>
<td>Down to service delivery level</td>
</tr>
<tr>
<td>5. Country specific vaccine wastage data</td>
<td>No</td>
</tr>
<tr>
<td>6. Application for Cold Chain Equipment Optimization Platform developed</td>
<td>Not applicable</td>
</tr>
<tr>
<td>7. Cold room temperature mapped at central level</td>
<td>No</td>
</tr>
<tr>
<td>8. Temperature Monitoring Study in route conducted</td>
<td>No</td>
</tr>
</tbody>
</table>

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**

**DATA NOT AVAILABLE**
**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

![Graph showing WHO/UNICEF coverage estimates from 1980 to 2016.](image)

- **2014**
- **2015**
- **2016**

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS**

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 92,695,100
- Total births: 1,728,610
- Total surviving infants: 1,728,610
- Annual population growth (%): 0.92
- Urban population: 33,956,000 (34%)
- Rural population: 60,739,100 (66%)
- Slum population (2014): 8,294,600
- Slum as % of urban population (2014): 27
- Cities/towns > 300,000 population: 9
- Under-5 mortality per 1,000 live births: 21.6
- GNI per capita (US$): 2,050
- Multi-year plan for immunization: 2016-2020
- National communication plan on immunization: 2014-2016
- % of total expenses on vaccines financed by government (2015): 51
- % of total expenses for routine immunization financed by government (2015): 56
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1**  Vaccine & commodity arrival procedures
- **E2**  Vaccine storage temperatures
- **E3**  Cold & dry storage capacity
- **E4**  Buildings, cold chain equipment & transport
- **E5**  Maintenance
- **E6**  Stock management
- **E7**  Effective distribution
- **E8**  Good vaccine management practices
- **E9**  Information systems and supportive management functions

**FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2015)**

![Bar chart showing effective vaccine management assessment scores (2015)]

<table>
<thead>
<tr>
<th>Criteria</th>
<th>2011 (MICS)</th>
<th>2014 (MICS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 (Poorest)</td>
<td>38%</td>
<td>35%</td>
</tr>
<tr>
<td>Q2</td>
<td>52%</td>
<td>50%</td>
</tr>
<tr>
<td>Q3</td>
<td>42%</td>
<td>41%</td>
</tr>
<tr>
<td>Q4</td>
<td>52%</td>
<td>51%</td>
</tr>
<tr>
<td>Q5 (Richest)</td>
<td>56%</td>
<td>58%</td>
</tr>
</tbody>
</table>

**FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

1. Nationwide Cold Chain Inventory  
   - Available?  
   - Updated annually (most recent in 2016)
2. Cold Chain Rehabilitation and Expansion Plan  
   - Available?  
   - Developed in 2016
3. National Cold Chain Equipment Maintenance Plan  
   - Available?  
   - Yes
4. Establishment of continuous temperature monitoring system  
   - Available?  
   - Down to district level
5. Country specific vaccine wastage data  
   - Available?  
   - Yes, for all vaccines
6. Application for Cold Chain Equipment Optimization Platform developed  
   - Available?  
   - Submitted to Gavi in 2017 and approved
7. Cold room temperature mapped at central level  
   - Available?  
   - Yes
8. Temperature Monitoring Study in route conducted  
   - Available?  
   - Yes

**FIGURE 9. IMMUNIZATION SERVICES DELIVERY**

- **Routine outreach sites**  
  - Available?  
  - 10% Health facilities 90%
- **Private Sector**  
  - Available?  
  - 5% Public services 95%
Total population: 20,936
Total births: 241
Total surviving infants: 2,43
Annual population growth (%) (2015): 0.53
Urban population: 15,653 (75%)
Rural population: 5,283 (25%)
Under-5 mortality per 1,000 live births: 7.8
GNI per capita (US$): Data not available
Multi-year plan for immunization: 2016
% of total expenses on vaccines financed by government: Data not available
% of total expenses for routine immunization financed by government: Data not available

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS**

<table>
<thead>
<tr>
<th>Year</th>
<th>&gt;=95%</th>
<th>90-94%</th>
<th>80-89%</th>
<th>50-79%</th>
<th>&lt;50%</th>
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<tr>
<td>2016</td>
<td>0</td>
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<td>0</td>
</tr>
</tbody>
</table>

Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016: Data not available

**FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS**

<table>
<thead>
<tr>
<th>Year</th>
<th>&gt;=95%</th>
<th>90-94%</th>
<th>80-89%</th>
<th>50-79%</th>
<th>&lt;50%</th>
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<tbody>
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<td>2012</td>
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<td>2016</td>
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</table>

**FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Available?</th>
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<tbody>
<tr>
<td>1. Cold Chain Policy</td>
<td>Yes</td>
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<tr>
<td>2. National Cold Chain Equipment Maintenance Plan</td>
<td>No</td>
</tr>
<tr>
<td>3. Needs assessment conducted</td>
<td>No</td>
</tr>
<tr>
<td>4. Equipment replacement plan developed?</td>
<td>No</td>
</tr>
</tbody>
</table>

**FIGURE 5. IMMUNIZATION SERVICES DELIVERY**

- Health facilities: 100%
- Public services: 100%

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
FIJI

COUNTRY/DEMOGRAPHIC BACKGROUND

- Total population: 898,130
- Total births: 19,350
- Total surviving infants: 19,180
- Annual population growth (%): 0.72
- Urban population: 485,833 (54%)
- Rural population: 412,247 (46%)
- Under-5 mortality per 1,000 live births: 22
- GNI per capita (US$): 4,840
- Multi-year plan for immunization: None
- % of total expenses on vaccines financed by government (2015): 98
- % of total expenses for routine immunization financed by government (2015): 89


FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2012)

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

Available?

1. Nationwide Cold Chain Inventory 2013-2016
2. National Cold Chain Equipment Maintenance Plan 2018
4. Equipment replacement plan developed? 2016-2019

FIGURE 5. IMMUNIZATION SERVICES DELIVERY
KIRIBATI

COUNTRY/DEMOGRAPHIC BACKGROUND

- Total population: 107,190
- Total births: 2,788
- Total surviving infants: 2,703
- Annual population growth (%): 1.71
- Urban population: 47,643 (44%)
- Rural population: 59,547 (56%)
- Under-5 mortality per 1,000 live births: 54.3
- GNI per capita (US$): 2,380
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available


FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2014)

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

FIGURE 5. IMMUNIZATION SERVICES DELIVERY

Total population: 107,190
Total births: 2,788
Total surviving infants: 2,703
Annual population growth (%): 1.71
Urban population: 47,643 (44%)
Rural population: 59,547 (56%)
Under-5 mortality per 1,000 live births: 54.3
GNI per capita (US$): 2,380
% of total expenses on vaccines financed by government: Data not available
% of total expenses for routine immunization financed by government: Data not available


FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2014)

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

FIGURE 5. IMMUNIZATION SERVICES DELIVERY

- High
  - 2012: 65% 76% 94% 77% 61% 72% 58% 73% 60%
  - 2013: 52% 63% 82% 68% 50% 61% 48% 69% 59%
  - 2014: 65% 52% 78% 63% 49% 55% 40% 60% 50%
  - 2015: 75% 64% 87% 72% 58% 64% 45% 69% 60%
  - 2016: 80% 65% 89% 75% 55% 61% 46% 70% 60%
- Low
  - 2012: 65% 32% 74% 53% 27% 21% 52% 69% 19%
  - 2013: 50% 61% 86% 65% 48% 43% 35% 58% 18%
  - 2014: 65% 54% 86% 66% 39% 41% 55% 70% 31%
  - 2015: 75% 64% 87% 72% 58% 64% 45% 69% 60%
  - 2016: 80% 65% 89% 75% 55% 61% 46% 70% 60%
- Composite
  - 2012: 52% 63% 82% 68% 50% 61% 48% 69% 59%
  - 2013: 65% 52% 78% 63% 49% 55% 40% 60% 50%
  - 2014: 75% 64% 87% 72% 58% 64% 45% 69% 60%
  - 2015: 80% 65% 89% 75% 55% 61% 46% 70% 60%
  - 2016: 80% 65% 89% 75% 55% 61% 46% 70% 60%

Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016: Data not available

Available?

1. Nationwide Cold Chain Inventory
2. National Cold Chain Equipment Maintenance Plan
3. Needs assessment conducted
4. Equipment replacement plan developed?
**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 53,311
- Total births: 1,094
- Total surviving infants: 1,081
- Annual population growth (%): 0.10
- Urban population: 38,885 (73%)
- Rural population: 14,426 (27%)
- Under-5 mortality per 1,000 live births: 35.4
- GNI per capita (US$): 4,450
- Multi-year plan for immunization: 2016-2018
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available

**TOTAL POPULATION: 53,311**

**TOTAL BIRTHS: 1,094**

**TOTAL SURVIVING INFANTS: 1,081**

**ANNUAL POPULATION GROWTH (%): 0.10**

**URBAN POPULATION: 38,885 (73%)**

**RURAL POPULATION: 14,426 (27%)**

**UNDER-5 MORTALITY PER 1,000 LIVE BIRTHS: 35.4**

**GNI PER CAPITA (US$): 4,450**

**MULTI-YEAR PLAN FOR IMMUNIZATION: 2016-2018**

**% OF TOTAL EXPENSES ON VACCINES FINANCED BY GOVERNMENT: DATA NOT AVAILABLE**

**% OF TOTAL EXPENSES FOR ROUTINE IMMUNIZATION FINANCED BY GOVERNMENT: DATA NOT AVAILABLE**

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

<table>
<thead>
<tr>
<th>Available?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Nationwide Cold Chain Inventory</td>
</tr>
<tr>
<td>2. National Cold Chain Equipment Maintenance Plan</td>
</tr>
<tr>
<td>3. Needs assessment conducted</td>
</tr>
<tr>
<td>4. Equipment replacement plan developed?</td>
</tr>
</tbody>
</table>

**FIGURE 5. IMMUNIZATION SERVICES DELIVERY**

**DATA NOT AVAILABLE**

---

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.

FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

Available?
1. Nationwide Cold Chain Inventory  Yes
2. National Cold Chain Equipment Maintenance Plan  No
3. Needs assessment conducted  Yes
4. Equipment replacement plan developed?  No

FIGURE 5. IMMUNIZATION SERVICES DELIVERY

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
**Country/Demographic Background**

- Total population: 10,175
- Total births: 400
- Total surviving infants: 397
- Annual population growth (%): -0.06
- Urban population: 10,175 (100%)
- Rural population: 0
- Under-5 mortality per 1,000 live births: 34.6
- GNI per capita (US$): 10,750
- Multi-year plan for immunization: None
- % of total expenses on vaccines financed by government: 100
- % of total expenses for routine immunization financed by government: 100

**Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016:**
- Data not available

**Multi-year Plan for Immunization:**
- No

**Status of Immunization Supply Chain Management**

1. Nationwide Cold Chain Policy: No
2. National Cold Chain Equipment Maintenance Plan: No
3. Needs assessment conducted: No
4. Equipment replacement plan developed: No

**Immunization Services Delivery**

- Health facilities: 80%
- Public services: 100%
- Routine outreach: 15%
- Home-to-home: 5%

**Coverage by % of Districts**

- **DTP1**:
  - >=95%: 0
  - 90-94%: 0
  - 80-89%: 0
  - 50-79%: 0
  - <50%: 0
  - Districts: 1

- **DTP3**: Data not available

- **MCV1**: Data not available

- **MCV2**: Data not available

**2012 2013 2014 2015 2016**

---

**For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.**
NIUE

COUNTRY/DEMOGRAPHIC BACKGROUND

- Total population: 1,243
- Total births: 26
- Total surviving infants: 25
- Annual population growth (%): 0.14
- Urban population: 539 (43%)
- Rural population: 705 (57%)
- Under-5 mortality per 1,000 live births: 22.2
- GNI per capita (US$): Data not available
- Multi-year plan for immunization: None
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available


FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

1. Nationwide Cold Chain Policy: Yes
2. National Cold Chain Equipment Maintenance Plan: Yes
3. Needs assessment conducted: No
4. Equipment replacement plan developed: No

FIGURE 5. IMMUNIZATION SERVICES DELIVERY

- Health facilities: 100%
- Public services: 100%

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
**Public Services**

100%

**Health Facilities**

95%

**Routine Outreach**

3%

**Others**

2%

**Health Facilities** 95%

**Public Services** 100%

---

**2012**

**2013**

**2014**

**2015**

**2016**

**>=95%**

**90-94%**

**80-89%**

**50-79%**

**<50%**

---

**Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016:**

Data not available

---

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
**S A M O A**

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 194,552
- Total births: 5,985
- Total surviving infants: 5,691
- Annual population growth (%): 0.65
- Urban population: 36,877 (19%)
- Rural population: 157,675 (81%)
- Under-5 mortality per 1,000 live births: 17.3
- GNI per capita (US$): 4,100
- Multi-year plan for immunization: 2018
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available

---

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

- DTP1-DTP3 drop-out rates > 10% in 2016: Data not available
- For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.

**FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS**

<table>
<thead>
<tr>
<th>Year</th>
<th>&gt;=95%</th>
<th>90-94%</th>
<th>80-89%</th>
<th>50-79%</th>
<th>&lt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>56</td>
<td>40</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2013</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2014</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2015</td>
<td>30</td>
<td>20</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2016</td>
<td>30</td>
<td>20</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS**

<table>
<thead>
<tr>
<th>Year</th>
<th>&gt;=95%</th>
<th>90-94%</th>
<th>80-89%</th>
<th>50-79%</th>
<th>&lt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>56</td>
<td>40</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2013</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2014</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2015</td>
<td>30</td>
<td>20</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2016</td>
<td>30</td>
<td>20</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

- Available?
  - 1. Nationwide Cold Chain Policy: No data
  - 2. National Cold Chain Equipment Maintenance Plan: Yes
  - 3. Needs assessment conducted: No data
  - 4. Equipment replacement plan developed: No data

**FIGURE 5. IMMUNIZATION SERVICES DELIVERY**

- Health facilities: 100%
- Public services: 95%
- Private Sector: 5%
**SOLOMON ISLANDS**

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 596,076
- Total births: 18,880
- Total surviving infants: 18,313
- Annual population growth (%): 1.94
- Urban population: 135,780 (23%)
- Rural population: 460,296 (77%)
- Under-5 mortality per 1,000 live births: 25.8
- GNI per capita (US$): 1,880
- Multi-year plan for immunization: 2016-2020
- % of total expenses on vaccines financed by government: 10
- % of total expenses for routine immunization financed by government: 10

**FIGURE 1. WHO/UNICEF COVERAGE ESTIMATES 1980-2016**

**FIGURE 2. DTP3 COVERAGE BY DISTRICT**

**FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS**

**FIGURE 4. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2012)**

**FIGURE 5. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT**

<table>
<thead>
<tr>
<th>1. Nationwide Cold Chain Inventory</th>
<th>Available?</th>
<th>Annually (most recent in 2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Cold Chain Rehabilitation and Expansion Plan</td>
<td>Developed in 2017</td>
<td></td>
</tr>
<tr>
<td>3. National Cold Chain Equipment Maintenance Plan</td>
<td>Developed in 2017</td>
<td></td>
</tr>
<tr>
<td>4. Establishment of continuous temperature monitoring system</td>
<td>Down to service delivery level (30 DTRS, coverage &lt; 40%)</td>
<td></td>
</tr>
<tr>
<td>5. Country specific vaccine wastage data</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>6. Application for Cold Chain Equipment Optimization Platform developed</td>
<td>Application being developed</td>
<td></td>
</tr>
<tr>
<td>7. Cold room temperature mapped at central level</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>8. Temperature Monitoring Study in route</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**FIGURE 6. IMMUNIZATION SERVICES DELIVERY**

- Health facilities: 80%
- Private Sector: 5%
- Public services: 95%
- Routine outreach: 20%
WHO/UNICEF Coverage Estimates are not available for Tokelau, official country estimates of immunization coverage reported through the WHO/Unicef Joint Reporting Forms (JRF) are used instead.

Districts reporting DTP1-DTP3 drop-out rates > 10% in 2015: 0

* For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
TONGA

COUNTRY/DEMOGRAPHIC BACKGROUND

- Total population: 107,138
- Total births: 3,035
- Total surviving infants: 2,855
- Annual population growth (%): 0.86
- Urban population: 25,499 (24%)
- Rural population: 81,639 (76%)
- Under-5 mortality per 1,000 live births: 15.4
- GNI per capita (US$): 4,020
- Multi-year plan for immunization: None
- % of total expenses on vaccines financed by government: 99
- % of total expenses for routine immunization financed by government: Data not available

Available?
1. Nationwide Cold Chain Policy
   Yes
2. National Cold Chain Equipment Maintenance Plan
   Yes
3. Needs assessment conducted
   Yes
4. Equipment replacement plan developed?
   Yes


FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

FIGURE 5. IMMUNIZATION SERVICES DELIVERY

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.

FIGURE 2. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 3. MCV1 COVERAGE BY % OF DISTRICTS

FIGURE 4. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

FIGURE 5. IMMUNIZATION SERVICES DELIVERY

**COUNTRY/DEMOGRAPHIC BACKGROUND**

- Total population: 9,942
- Total births: 274
- Total surviving infants: 274
- Annual population growth (%): 0.88
- Urban population: 6,027 (61%)
- Rural population: 3,915 (39%)
- Under-5 mortality per 1,000 live births: 25.3
- GNI per capita (US$): 5,090
- Multi-year plan for immunization: None
- % of total expenses on vaccines financed by government: Data not available
- % of total expenses for routine immunization financed by government: Data not available

**Available?**

1. Nationwide Cold Chain Policy
   - No
2. National Cold Chain Equipment Maintenance Plan
   - No
3. Needs assessment conducted
   - No data
4. Equipment replacement plan developed?
   - No data

**Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016:**

- >=95%
- 50
- 25
- 75
- 38
- 90-94%
- 50
- 13
- 0
- 25
- 80-89%
- 0
- 75
- 13
- 25
- 50-79%
- 0
- 13
- 13
- 13
- <50%
- 0
- 0
- 0
- 0

# Districts
- 8
- 8
- 8
- 8

*For Figures 2 and 3, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.*
VANUATU

COUNTRY/DEMOGRAPHIC BACKGROUND

- Total population: 269,527
- Total births: 8,473
- Total surviving infants: 8,275
- Annual population growth (%): 2.10
- Urban population: 71,264 (26%)
- Rural population: 198,263 (74%)
- Under-5 mortality per 1,000 live births: 27.6
- GNI per capita (US$ 2015): 3,170
- Multi-year plan for immunization: None
- % of total expenses on vaccines financed by government: 19
- % of total expenses for routine immunization financed by government: 17


FIGURE 2. DTP3 COVERAGE BY DISTRICT

Districts reporting DTP1-DTP3 drop-out rates > 10% in 2016:
5/6 (83%)

FIGURE 3. DTP3 COVERAGE BY % OF DISTRICTS

FIGURE 4. MCV1 COVERAGE BY % OF DISTRICTS

*For Figures 3 and 4, coverage by % of districts are directly reported by countries through the WHO/UNICEF Joint Reporting Forms.
The nine areas (criteria E1-E9) of effective vaccine management are:

- **E1** Vaccine & commodity arrival procedures
- **E2** Vaccine storage temperatures
- **E3** Cold & dry storage capacity
- **E4** Buildings, cold chain equipment & transport
- **E5** Maintenance
- **E6** Stock management
- **E7** Effective distribution
- **E8** Good vaccine management practices
- **E9** Information systems and supportive management functions

### FIGURE 5. DISPARITY IN DTP3 COVERAGE (FOR 12-59 MONTHS) BY RESIDENCE AND WEALTH QUINTILE (DHS 2013)

![Disparity in DTP3 coverage](image)

### FIGURE 6. DISPARITY IN DTP3 COVERAGE (FOR 12-23 MONTHS) BY CHARACTERISTICS

![Disparity in DTP3 coverage by characteristics](image)

### FIGURE 7. EFFECTIVE VACCINE MANAGEMENT (EVM) ASSESSMENT SCORES (2015)

![Effective vaccine management assessment scores](image)

### FIGURE 8. STATUS OF IMMUNIZATION SUPPLY CHAIN MANAGEMENT

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Available?</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Yes</td>
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<td>Down to service delivery level</td>
</tr>
<tr>
<td>5. Country specific vaccine wastage data</td>
<td>No</td>
</tr>
<tr>
<td>6. Application for Cold Chain Equipment Optimization Platform developed</td>
<td>Not applicable</td>
</tr>
<tr>
<td>7. Cold room temperature mapped at central</td>
<td>Yes</td>
</tr>
<tr>
<td>8. Temperature Monitoring Study in route conducted</td>
<td>No</td>
</tr>
</tbody>
</table>

### FIGURE 9. IMMUNIZATION SERVICES DELIVERY

- **Public services**: 99%
- **Private Sector**: 1%
- **Routine outreach**: 70%
- **Health facilities**: 30%
<table>
<thead>
<tr>
<th>Country</th>
<th>Vaccine</th>
<th>Age of Administration</th>
<th>Vaccine</th>
<th>Age of Administration</th>
<th>Vaccine</th>
<th>Age of Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cambodia</strong></td>
<td>BCG Birth</td>
<td>MR 6, 9, 18 months</td>
<td>TT</td>
<td>1st contact pregnancy</td>
<td></td>
<td>+1, +6 months</td>
</tr>
<tr>
<td></td>
<td>DTwPHibHepB</td>
<td>6, 10, 14 weeks</td>
<td>OPV 6, 10, 14 weeks</td>
<td>VitaminA 6-59 months</td>
<td></td>
<td>(x2)</td>
</tr>
<tr>
<td></td>
<td>HepB_Pediatric</td>
<td>Birth 6, 10, 14 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IPV Birth</td>
<td>14 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>China</strong></td>
<td>BCG Birth</td>
<td>MR 6, 9, 18 months</td>
<td>TT</td>
<td>1st contact pregnancy</td>
<td></td>
<td>+1, +6 months</td>
</tr>
<tr>
<td></td>
<td>DT 6 years</td>
<td>Influenza_Pediatric</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DTaP 3, 4, 5 months</td>
<td>IPV 2 months</td>
<td>MR 8 months</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HepA 18, 24 months</td>
<td>JE_LiveAdt 8 months</td>
<td>OPV 3, 4 months;</td>
<td></td>
<td></td>
<td>4 years</td>
</tr>
<tr>
<td></td>
<td>HepB Birth, 1, 6 months</td>
<td>MenA 6, 9 months</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Democratic People’s Republic of Korea (the)</strong></td>
<td>BCG Birth</td>
<td>IPV 14 weeks</td>
<td>Td</td>
<td>pregnant women at 3, 4 months</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DTwPHibHepB</td>
<td>6, 10, 14 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HepB Birth</td>
<td>OPV 6, 10, 14 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indonesia</strong></td>
<td>BCG Birth</td>
<td>IPV 2, 3, 4 months</td>
<td>TT</td>
<td>15-39 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DT 6-7 years</td>
<td>Measles 9, 24 months</td>
<td>VitaminA 6-59 months</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DTwPHibHepB</td>
<td>2, 3, 4, 18 months</td>
<td>OPV 1, 2, 3, 4 months</td>
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<td>IPV</td>
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COUNTRY/DEMOGRAPHIC BACKGROUND

Total population. De facto population in a country as of 1 July of the year indicated. United Nations. World Urbanization Prospects: 2014 Revision except for Mongolia and Viet Nam. Mongolia data was taken from the Mongolian Statistical Information Service (http://www.1212.mn/). Viet Nam data was taken from Viet Nam’s General Statistics Office.

Total births: Cover Page. WHO/UNICEF Joint Reporting Forms for 2016 for countries falling under the WHO/Western Pacific Region. For the Democratic Republic of Korea, Indonesia, Myanmar, Thailand and East Timor, the data has been taken from the World Population Prospects: The 2017 Revision. The data provided here is the annual average number of births from the middle of 2015 to the middle of 2020.

Total surviving infants: Cover Page. WHO/UNICEF Joint Reporting Forms for 2016 for countries falling under the WHO/Western Pacific Region.


Multi-year plan: WHO/UNICEF Joint Reporting Forms for 2016 under Planning and Management.

% of total expenses on vaccines financed by government: WHO/UNICEF Joint Reporting Forms for 2016 under Financing Data.

% of total expenses for routine immunization financed by government: WHO/UNICEF Joint Reporting Forms for 2016 under Financing Data.

DATA SOURCES AND NOTES

Important: All data indicated are for 2016 unless otherwise specified.

UNICEF country office.

Maps for Cambodia, Mongolia and Papua New Guinea were generated at the UNICEF Eastern Asia and the Pacific Regional office using boundary files provided by the WHO Western Pacific Regional Office and comes with the following disclaimer:

DISCLAIMER: The boundaries and names shown and the designations used on 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 lines on maps represent approximate border lines for which there may not yet be full agreement. © WHO Regional Office for the Western Pacific 2009. All rights reserved.

Figure 3 (Figure 2 for PICTS). DTP3 % Coverage by % of Districts. WHO/UNICEF Joint Reporting Forms for 2012-2016

Figure 4 (Figure 3 for PICTS). MCV1 % Coverage by % of Districts. WHO/UNICEF Joint Reporting Forms for 2012-2016

Figure 5. Disparity in DTP3 coverage (For 12-59 months) by residence and wealth quintile. Data is taken from the latest Demographic Health Survey (DHS) or Multiple Indicator Cluster Survey (MICS) available.

The DHS and MICS household questionnaires gather information about ownership of a series of assets (electricity, radio, television, refrigerator, motorcycle, car, main construction materials of the walls, roof, and floor of the house, source of drinking water, and type of toilet facility, among others). The answers to these asset questions are combined and used to construct a consolidated index of living standards or “wealth index” using principal components analysis. All individuals in the sample have a wealth index score that corresponds to that of their household.

Using this index score, wealth quintiles were constructed within the urban sample. Thus, Quintile 1 refers to the poorest 20% in the urban population for that particular country and year, whereas Quintile 5 refers to the richest 20% in the urban population. The urban wealth quintiles were constructed using the “children” recode without weights.

Quintiles were generated among the rural sample in the same manner.

The DTP3 coverage in this chart refers to the percentage of children aged 12-59 months who have received three doses of the combined diphtheria, tetanus toxoid and pertussis vaccine.

Figure 6. Disparity in DTP3 coverage (for 12-23 Months) by characteristics. Data is taken from the last two Demographic Health Survey (DHS) or Multiple Indicator Cluster Survey (MICS) available. The DTP3 coverage indicated here refers to the percentage of children aged 12-23 months in the survey sample who have received three doses of the combined diphtheria, tetanus toxoid and pertussis vaccine.

Since Figure 5 and Figure 6 use different denominators, the DTP3 coverage presented between the two figures cannot be compared.

Figure 7. EVM Assessment Scores. The chart shows the range of scores assessed among the four levels of the supply chain. The composite score was generated by getting the geometric mean of the scores for the four levels. Effective Vaccine Management (EVM) Initiative, Immunization, Vaccines and Biologicals. World Health Organization.

Figure 8 (Figure 4 for PICTS). Status of Immunization Supply Chain Management. Indicators. WHO/UNICEF Joint Reporting Forms for 2016 and data provided by UNICEF country offices.

Figure 9 (Figure 5 for PICTS). Immunization Services Providers. Immunization System Indicators, Planning and Management. WHO/UNICEF Joint Reporting Forms for 2016 under planning and management. These data were collected only for countries falling under the WHO/Western Pacific Region.