In 2019, more than 1 out of 11 million surviving infants in the region did not receive the three recommended doses of DTP vaccine.

Three-quarters of countries reached and maintained 90% coverage.

14 out of 21 countries in the region have reached and sustained the target coverage of 90% or above for DTP3 for the past three years.

Measles regional coverage below the global target.

In 2019, the regional coverage of MCV1 was 89% compared to the global target of 95%.

More than 1 million still not fully vaccinated:

In 2019, more than 1 out of 11 million surviving infants in the region did not receive the three recommended doses of DTP vaccine.

In 2019, the regional coverage of MCV1 was 89% compared to the global target of 95%.


In 2019, the regional coverage of DTP3 was 91%, compared to global coverage of 85%.

14 out of 21 countries in the region have reached and sustained the target coverage of 90% or above for DTP3 for the past three years.

Vaccination coverage by country, 2019.

* = Achieved greater than 90% coverage for at least the past 3 consecutive years.

Note: Please find the acronym definitions on page 3.

Coverage and number of infants not vaccinated for DTP3 by country, 2019.

Countries with dark blue color, Libya, Syrian Arab Republic and Yemen had the lowest coverage levels and the highest number of not vaccinated infants for DTP3. Algeria, Egypt, Iraq, and Sudan have high numbers of infants not vaccinated for DTP3 with high vaccination coverage levels.

In 2019, the regional coverage of MCV1 was 89% compared to the global target of 95%.

Note: This map is not to scale. It does not reflect a position by UNICEF on the legal status of any country or area or the delimitation of any frontiers. Please find more information on how to interpret the map on page 3.

Coverage levels (%) and numbers of infants un-vaccinated and under-vaccinated for DTP 2019.

Yemen, Syrian Arab Republic and Iraq, with an estimated 592 thousand infants not vaccinated for DTP3, accounted for 56 per cent of the total MENA un- and under-vaccinated surviving infants.

Note: Numbers in this graph are the rounded numbers of infants not vaccinated for DTP3.

BCG DTP1 DTP3 Polio3 MCV1 MCV2 HepB3 Hib3 Rota PCV3 HPV

Algeria 95 96 91* 91 80 77 91 91 – 91 –
Bahrain – – 99 99* 99 99 99 99 99 99 97* –
Cyprus – – 96* 96 96 96 96 96 96 96 96* –
Djibouti 96 96 95* 95 95 95 95 95 95 95 95* –
Egypt 98 93 84 85 82 86 84 84 84 84 84 84 –
Iran (Islamic Republic of) 98 93 84 85 82 86 84 84 84 84 84 84 –
Iraq 97 93 84 85 82 82 82 82 82 82 82 82 –
Jordan 96 90 89 87 87 87 87 87 87 87 87 87 –
Kuwait 96 99 91* 99 98 94 91 91 69 91* –
Lebanon – – 93 81 81 81 81 81 81 81 81 81 –
Libya 74 74 73 73 73 73 73 73 73 73 73 73 –
Qatar 99 99 99* 98 98 98 98 98 98 98 98 98* –
Syria 92 97 93* 93 90 74 93 93 93 93 93 93* –
Syrian Arab Republic 92 97 93* 93 90 74 93 93 93 93 93 93* –
Tunisia 96 97 92* 92 92 92 92 92 92 92 92 92 –
Yemen 69 81 73 67 67 46 73 73 73 73 73 73 –

* = Achieved greater than 90% coverage for at least the past 3 consecutive years.

Note: Please find the acronym definitions on page 3.
Top 5 countries with the most infants not vaccinated for DTP1 (un-vaccinated) and DTP3 (under-vaccinated), 2017-2019

<table>
<thead>
<tr>
<th>Country</th>
<th>2017</th>
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</thead>
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<tr>
<td>Yemen</td>
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<tr>
<td>Syrian Arab Republic</td>
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</tr>
<tr>
<td>Sudan</td>
<td>92</td>
<td>90</td>
<td>89</td>
</tr>
</tbody>
</table>

Number of infants in the region not vaccinated for DTP1 (un-vaccinated) and DTP3 (under-vaccinated), 2000–2019

DTP3 coverage change from 2018 to 2019, by country

Note: Countries with high coverage (≥95%) in 2019 and a change in coverage within 2% from 2018: Bahrain, Egypt, Iraq, Iran (Islamic Republic of), Morocco, Oman, Qatar, Saudi Arabia, State of Palestine, and United Arab Emirates.

**Definitions of immunization terms**

**Vaccine coverage:** Percentage of infants (children under one year of age) who received certain vaccine-doses. For example, coverage of DTP3 is the percentage of infants that received all three doses of diphtheria, tetanus, and pertussis (DTP) vaccine.

**Un-vaccinated:** An infant that did not receive any vaccine. In this regional profile, un-vaccinated is defined as an infant that did not receive any DTP vaccine (not vaccinated for DTP1). It is also used as a proxy for “zero-dose”.

**Under-vaccinated:** An infant that received some but not all the recommended vaccine-doses on the national schedule. In this regional profile, under-vaccinated is defined in relation to the DTP vaccination series not the entire national immunization schedule.

**Vaccine-Doses:**
- Bacillus Calmette-Guerin (BCG): vaccine against tuberculosis
- Diphtheria, tetanus, and pertussis vaccine, first dose (DTP1) and third dose (DTP3)
- Hepatitis B vaccine, third dose (HepB3)
- Haemophilus influenzae type B vaccine, third dose (Hib3)
- Poliovirus vaccine, third dose (Polio3)
- Measles containing vaccine, first dose (MCV1) and second dose (MCV2)
- Rotavirus vaccine, last dose (Rota)
- Pneumococcal vaccine, third dose (PCV3)
- Human Papillomavirus vaccine, last dose (HPV): vaccine to protect against certain types of human papillomavirus that can lead to cancer or genital warts

**Interpretation of graphs**

The **bi-scale map** shows both the level of coverage and the total number of infants not vaccinated for DTP3.

- Less than 80% coverage and ranked in the group of countries with the most number of under-vaccinated infants within the region.
- 80% to 89% coverage and ranked in the group of countries with the most number of under-vaccinated infants within the region.
- Greater than or equal to 90% coverage and ranked in the group of countries with the most number of under-vaccinated infants within the region.

The **DTP3 coverage change from 2018 to 2019 scatter plot** shows the change in DTP3 coverage between 2018 and 2019. Countries that experienced more than 5 percentage point drop in coverage since the previous year are labelled in dark red. Similarly, countries that experienced more than 5 percentage point increase in coverage since the previous year are labelled in dark blue. Countries with no significant changes (less than 2 percentage points) are labelled in yellow.

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**GRISP: Global Routine Immunization Strategies and Practices**

Coordinating Actions to Achieve Disease Prevention for All

The GRISP framework outlines the specific strategies and activities required to ensure the lifesaving power of routine immunization is accessible to all—regardless of who they are or where they live. It breaks down into the following nine areas:

1. **Operational level funding**
   - Assurance that sufficient and adequately appropriated funds reach the operational level of the programme regularly

2. **Strategic and operational plans**
   - Strategic multiyear plans and operational annual plans outlining and coordinating strategies and activities, monitored quarterly

3. **Strategies to reach**
   - Tailored strategies that identify undervaccinated and unvaccinated persons and regularly provide them with the vaccines they need

4. **Vaccinator and manager skills**
   - Regular and systematic capacity building, skills development and supportive supervision for vaccinators and district managers

5. **Modern vaccine supply chain**
   - Modernized vaccine supply chains and management to ensure the correct amounts of the right potent vaccines are available at each vaccination session

6. **Accurate information system**
   - An information system that identifies and tracks each person’s vaccination status

7. **Life course vaccination**
   - Expanded routine immunization schedules that cover people’s entire lives

8. **Community support**
   - Shared responsibility for immunization delivery between communities and the immunization programme to reach uniformly high coverage through high demand and quality services

9. **National team**
   - The most important factor for all other eight investments to succeed. A capable national team—supplied with sufficient resources and authority—to excellently manage each country’s national immunization program

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https://www.who.int/immunization/programmes_systems/policies_strategies/GRISP_infographic_EN.pdf?ua=1