

EMRO

WUENIC 2025 revision,
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WHO/UNICEF Estimates of National Immunization Coverage (WUENIC), 2025 revision

Every year, WHO and UNICEF jointly review submissions from Member States on national immunization coverage, including annual administrative and official coverage, finalized survey reports and data from both published and grey literature. The data is triangulated with consideration of potential biases and local expert opinions to differentiate between accurately reflective empirical data and potentially misleading data, to assess the most likely coverage levels for each country.

WHO and UNICEF produce country-specific estimates by reviewing each country's data independently, without borrowing from other countries when data are missing. The estimates are not ad hoc adjustments to reported figures and may rely on a single empirical source, typically nationally reported coverage. When no data exist for a specific country-vaccine-year, earlier and later data are interpolated. If sources conflict or vary widely, the most plausible estimate is selected after considering potential biases.

This slide deck presents the latest WUENIC estimates (published 15 July 2026), using UNPD World Population Prospects (WPP 2024) for population-weighted averages and to derive absolute numbers of vaccinated and unvaccinated/zero-dose children.

Methods: • [Burton et al. 2009. WHO and UNICEF estimates of national infant immunization coverage: methods and processes.](#)

- [Burton et al. 2012. A formal representation of the WHO and UNICEF estimates of national immunization coverage: a computational logic approach.](#)
- [Brown et al. 2013. An introduction to the grade of confidence used to characterize uncertainty around the WHO and UNICEF estimates of national immunization coverage.](#)
- [Danovaro-Holliday et al. 2021. Compliance of WUENIC with Guidelines for Accurate and Transparent Health Estimates Reporting \(GATHER\) criteria.](#)

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 who received all three doses of diphtheria, tetanus, and pertussis (DTP) vaccine.

Unvaccinated

An infant that did not receive the first dose of a vaccine series. The term zero-dose is used to describe children unvaccinated with DTP1.

Under-vaccinated

An infant who received some but not all the recommended vaccine-doses in the national schedule.

Vaccine-Doses

- Bacillus Calmette-Guerin (BCG): vaccine against tuberculosis
- Hepatitis B birth dose, given within 24 hours after birth (HepBB)
- 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)
- Inactivated polio vaccine, first dose (IPV1) and last dose (IPVC)
- Measles containing vaccine, first dose (MCV1) and second dose (MCV2)
- Rotavirus vaccine, last dose (RotaC)
- Pneumococcal vaccine, last dose (PCVC)
- Yellow Fever vaccine (YFV)
- Meningococcal A vaccine (MengA)
- Human papillomavirus vaccine, first dose (HPV1) and last dose (HPVc): vaccine to protect against certain types of human papillomavirus that can lead to cancer or genital warts

The Immunization Agenda 2030 (IA2030)

The IA2030 is a global strategy endorsed by the World Health Assembly aiming to ensure everyone, everywhere, at every age benefits from vaccines for improved health and well-being by 2030. It focuses on increasing vaccine coverage, equity, sustainability and pandemic preparedness while promoting life-course immunization and integrating immunization with other health services.

Key concepts

- The World Health Organization (WHO) provides global vaccine recommendations, which are adapted by countries based on local needs. Only DTP, polio and measles-containing vaccines are used in all countries.
- DTP1 is a marker of access to routine immunization services, and when not received, serves as a proxy for identifying children who have not received any vaccinations, also known as "zero-dose" children. High DTP1 coverage indicates good access to immunization services, while low coverage suggests challenges in reaching children with essential vaccines.
- DTP3 is a widely used indicator of immunization programme performance. It reflects a country's ability to deliver routine immunization services and ensures children are protected against serious disease. DTP3 is tracked globally and serves as a key measure of a nation's vaccination efforts.
- DTP1-DTP3 drop-out measures the percentage of children who received DTP1 but not DTP3, and highlights where children are lost along the vaccination pathway, highlighting potential weaknesses in service delivery and follow-up.
- MCV1 (usually recommended between 9-12 months) assesses the ability to deliver vaccines later in infancy. It serves as a tracer for protection against measles and is a good indicator of health system performance.
- HPV vaccine protects against specific types of human papilloma virus (HPV), and is used to measure life cycle vaccination.
- Other key indicators include PCVC and MCV2, which are used to monitor the Sustainable Development Goals (SDGs).
- Together, these indicators provide a consistent and comparable way to track immunization progress, identify missed communities and monitor global targets, including those under the Immunization Agenda 2030 (IA2030) and Sustainable Development Goals (SDGs).

Overview

- DTP1 coverage increased 2 percentage points from 86% in 2024 to 88% in 2025.
- DTP3 coverage increased 1 percentage point from 80% in 2024 to 81% in 2025.
- In EMR, there were 371,000 fewer zero-dose children compared to in 2024. This leaves 2.4 million children without vaccination, vulnerable to vaccine-preventable diseases and a further 1.2 million with only partial protection.
- In EMR, 3 countries* accounted for over half (68.9%) of all zero-dose children.
- There were 12 (57%) countries that achieved DTP3 coverage of at least 90% (IA2030 target).
- MCV1 coverage increased 1 percentage point from 80% in 2024 to 81% in 2025. There were 3.7 million children who missed out on the first measles vaccination.
- MCV2 coverage increased 1 percentage point from 75% in 2024 to 76% in 2025.
- Last dose coverage of HPV vaccination (HPVc) among girls increased from 1% to 14% in 2025.

*Yemen (29.2%), Afghanistan (20.2%), and Pakistan (19.5%)

Vaccine coverage (%), by year, EMR, 2000-2025

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
BCG	76	78	78	80	80	82	82	82	82	81	83	86	87	87	88	86	87	86	88	88	88	87	89	86	86	88
HepBB	9	11	12	11	17	17	17	18	18	16	15	15	16	17	18	19	19	31	31	31	31	30	30	45	45	43
DTP1	80	82	81	83	84	84	83	83	83	82	83	86	86	85	86	86	85	87	88	89	87	87	90	86	86	88
DTP3	71	73	73	75	77	76	74	74	74	74	75	78	77	78	79	79	81	82	83	84	81	81	84	80	80	81
Hib3	1	4	8	9	9	11	12	17	25	46	46	51	53	56	71	79	81	82	83	84	81	81	84	80	80	81
HepB3	36	38	39	61	61	66	68	72	72	71	72	76	75	78	79	79	81	82	83	84	81	81	84	80	80	81
PCVC									0	4	4	7	11	36	46	51	50	55	55	56	54	53	54	52	54	61
RotaC							0	0	0	0	0	5	12	18	18	20	22	28	47	55	56	56	55	54	55	61
IPV1																24	45	46	65	85	81	82	87	82	82	84
IPVC																						47	73	73	74	75
MCV1	70	71	71	72	74	73	73	73	73	74	76	76	76	78	79	80	81	82	82	82	82	80	82	80	80	81
RCV1	22	25	24	24	34	35	35	36	33	34	34	35	35	35	39	43	44	43	42	41	40	39	68	69	73	72
MCV2	27	33	33	32	36	39	40	40	38	50	51	54	55	59	63	68	73	73	73	75	75	75	75	73	75	76
YFV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	78	50	45	70
MengA																41	82	84	86	84	80	76	51	46	72	
HPVc											0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	14



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Vaccine coverage and progress varies between antigens and over time.

This heatmap shows vaccine coverage trends in EMR since 2000, with green cells indicating coverage of 90% or more.

In 2015, none of the 14 (0%) vaccines with data achieved coverage of 90% or more.

In 2025, none of the 16 (0%) vaccines achieved coverage of 90% or more.

Since 2006, estimates have been made for 6 new vaccines. IPV1 is the newest vaccine being reported (2021), which achieved 75% coverage in 2025.

Vaccine coverage, by country, EMR, 2025

	BCG	HepBB	DTP1	DTP3	Hib3	HepB3	PCVC	RotaC	IPV1	IPVC	MCV1	RCV1	MCV2	YFV	MengA	HPVc
Saudi Arabia	97	99	98	98	98	98	98	98	98	98	99	99	99			
Egypt	99	97	99	98	98	98			99	98	97	97	96			
Bahrain		99	99	98	98	98	99	97	99	99	99	99	99			61
Kuwait	99	86	99	95	95	95	95	83	99	96	99	99	98			
Jordan	94		98	95	95	95		93	98	95	94	94	90			
Oman	99	99	99	99	99	99	99	99	99	99	99	99	99			10
United Arab Emirates	95	95	98	98	98	98	91	88	98	96	98	98	92			34
Iran	96	91	99	98	98	98	54	57	98	98	99	99	98			
Qatar	99	99	99	96	96	96	96	95	99	96	99	99	99			1
Tunisia	99	67	97	97	97	97	96		97	97	96	96	97			3
Libya	97		97	90	90	90	92	86	90	90	93	93	85			28
Iraq	99	52	96	84	84	84	82	70	90	85	95	95	79			
Morocco	98	37	98	96	96	96	77	92	95		98	98	98			3
Pakistan	96	30	93	86	86	86	86	89	87	82	84	84	83			40
Djibouti	80	80	86	83	83	83	82	88	86	67	75		58			10
Sudan	74		83	71	71	71	74	65	81	72	68	42	56	70	72	
Lebanon		80	88	52	52	52	67	65	88	63	67	67	59			
Syria	82	24	75	60	60	60			75	67	69	69	62			
Afghanistan	73	64	67	61	61	61	63	60	62	50	56		42			
Somalia	74		77	72	72	72	20	23	70	51	61		31			
Yemen	48		49	39	39	39	39	40	42	35	41	41	38			



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
 Note: Countries ordered based on descending crude average coverage across all vaccines.

This heatmap shows vaccine coverage by country and vaccine in 2025.

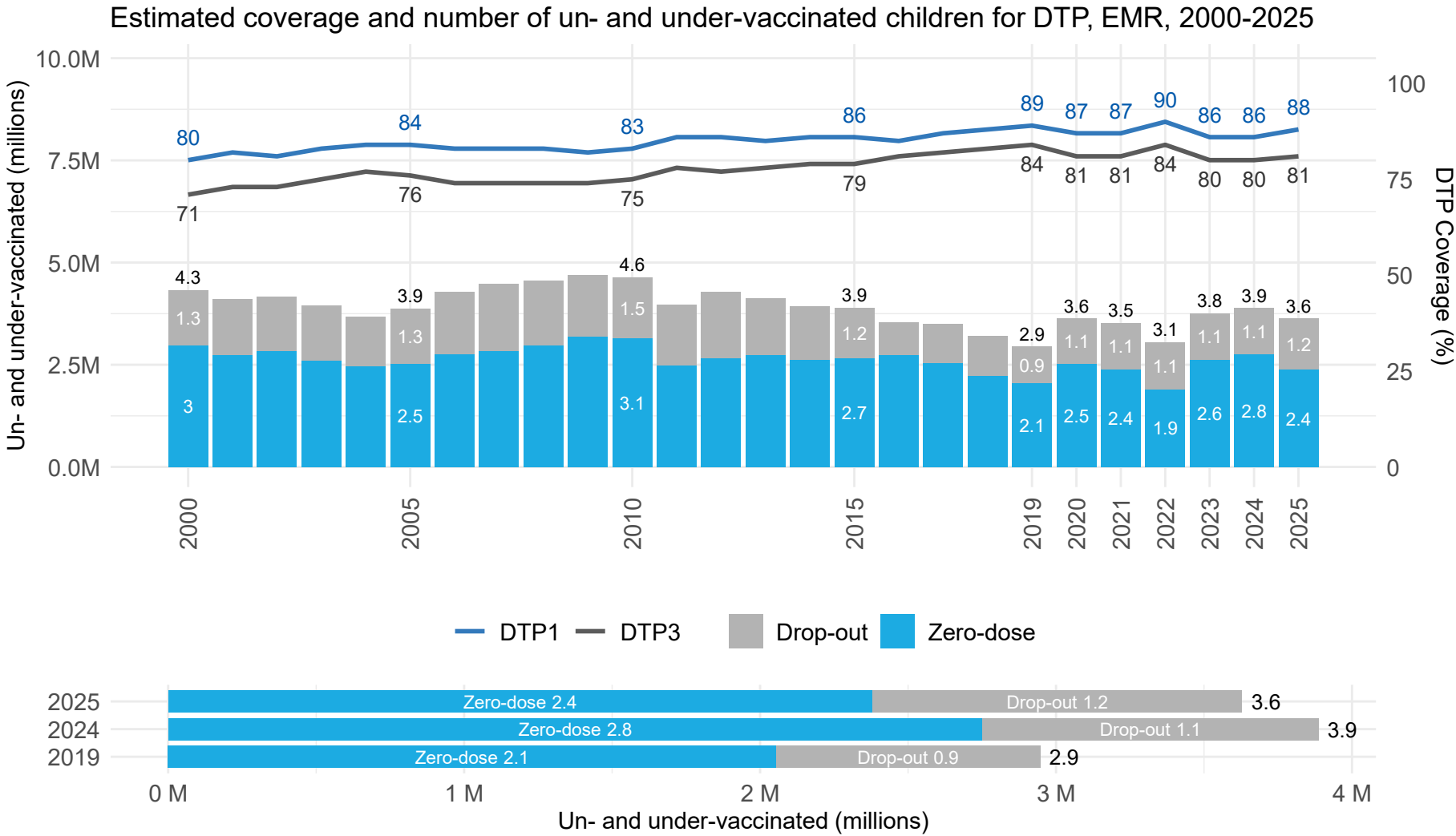
In 2025, 14 out of 21 countries achieved coverage of 90% or higher in at least one vaccine.

Egypt, Jordan, and Saudi Arabia had the highest percentage of vaccines (100%) in the national immunization schedule with coverage of at least 90%, followed by Oman and Qatar (93%).

7 countries had not achieved 90% coverage of any vaccine (Afghanistan, Djibouti, Lebanon, Somalia, Sudan, Syria, and Yemen).

DTP1

In 2025, DTP1 coverage was 88% and DTP3 was 81%, leaving 3.6 million children un- or under-vaccinated, including 2.4 million zero-dose and 1.2 million with only partial protection.



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: There may be discrepancies due to rounding.

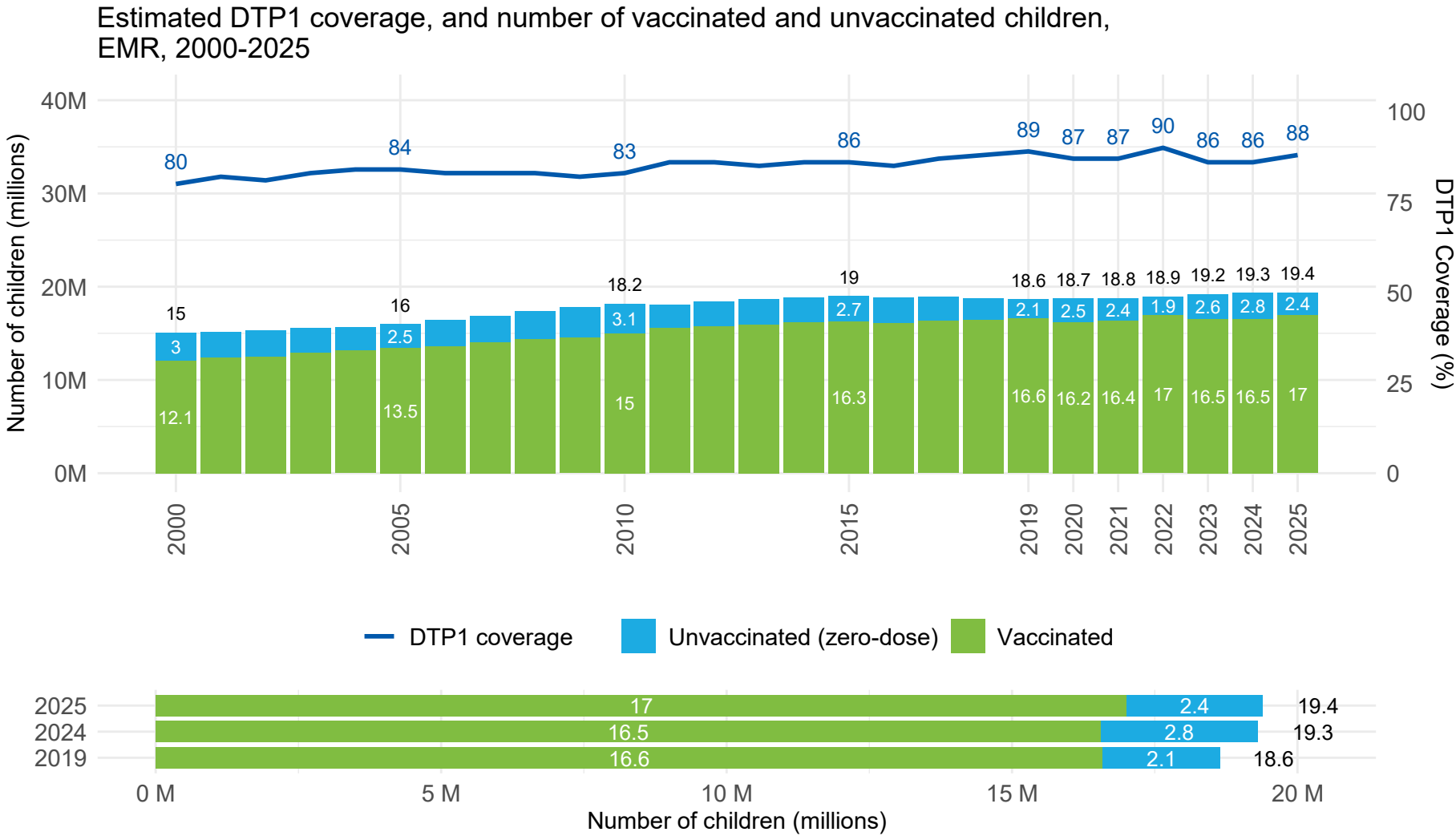
The key goal of the Immunization Agenda 2030 is to make vaccination available to everyone, everywhere, by 2030.

This chart shows diphtheria, tetanus and pertussis-containing vaccine first (DTP1) and third dose (DTP3) coverage trends, the number of zero-dose children and DTP drop-out.

In 2025, DTP1 coverage increased at 88%. The number of children missing out on any vaccination (zero-dose children) improved from 2,751,000 in 2024 to 2,380,000 in 2025.

DTP3 coverage remained relatively constant within 1% at 81% in 2025, leaving 3,629,000 children vulnerable to vaccine-preventable diseases.

In 2025, DTP1 coverage was 88%: 17 million children received at least one dose of DTP-containing vaccine, but 2.4 million remain unreachable.



Sources: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision; United Nations, Department of Economic and Social Affairs, Population Division (2024). World Population Prospects 2024, Online Edition.

DTP1 coverage in 2025 (88%) was within 1% of coverage in 2019 (89%).

The number of children vaccinated with DTP1 increased 3% from 16.6 million in 2019 to 17 million in 2025.

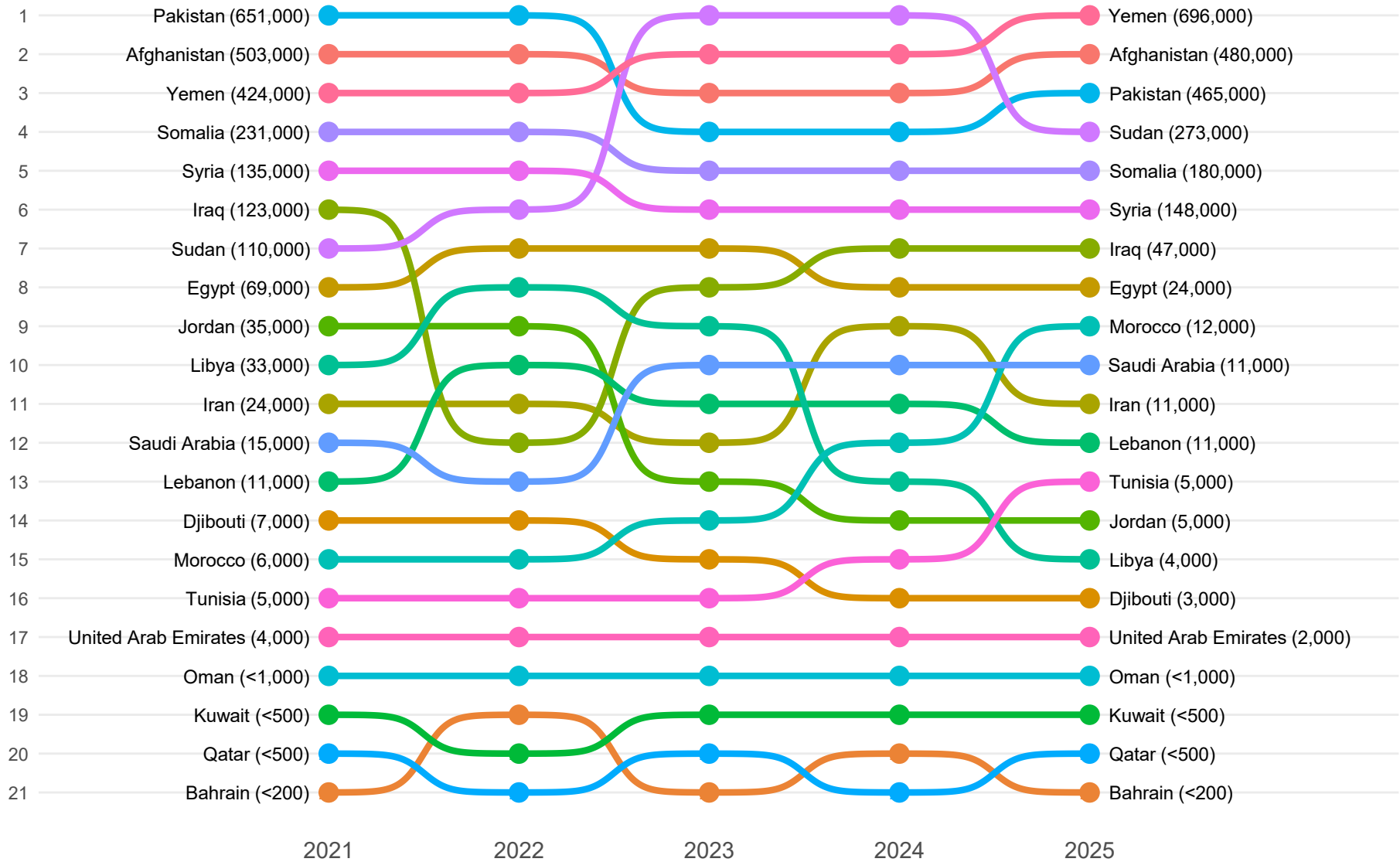
The number of surviving infants increased approximately 4% from 18.6 million in 2019 to 19.4 million in 2025.

In 2025, 420,000 more children were vaccinated than in 2019.

In 2025, there were 746,000 more surviving infants (target population) than in 2019.

For vaccine coverage to increase, the number of children vaccinated must increase at a faster rate than the population increases.

Countries ranked by number of zero-dose children, EMR, 2021-2025



This chart compares the ranking of countries in EMR based on the absolute number of zero-dose children, with rank 1 representing the country in the region with the most zero-dose children.

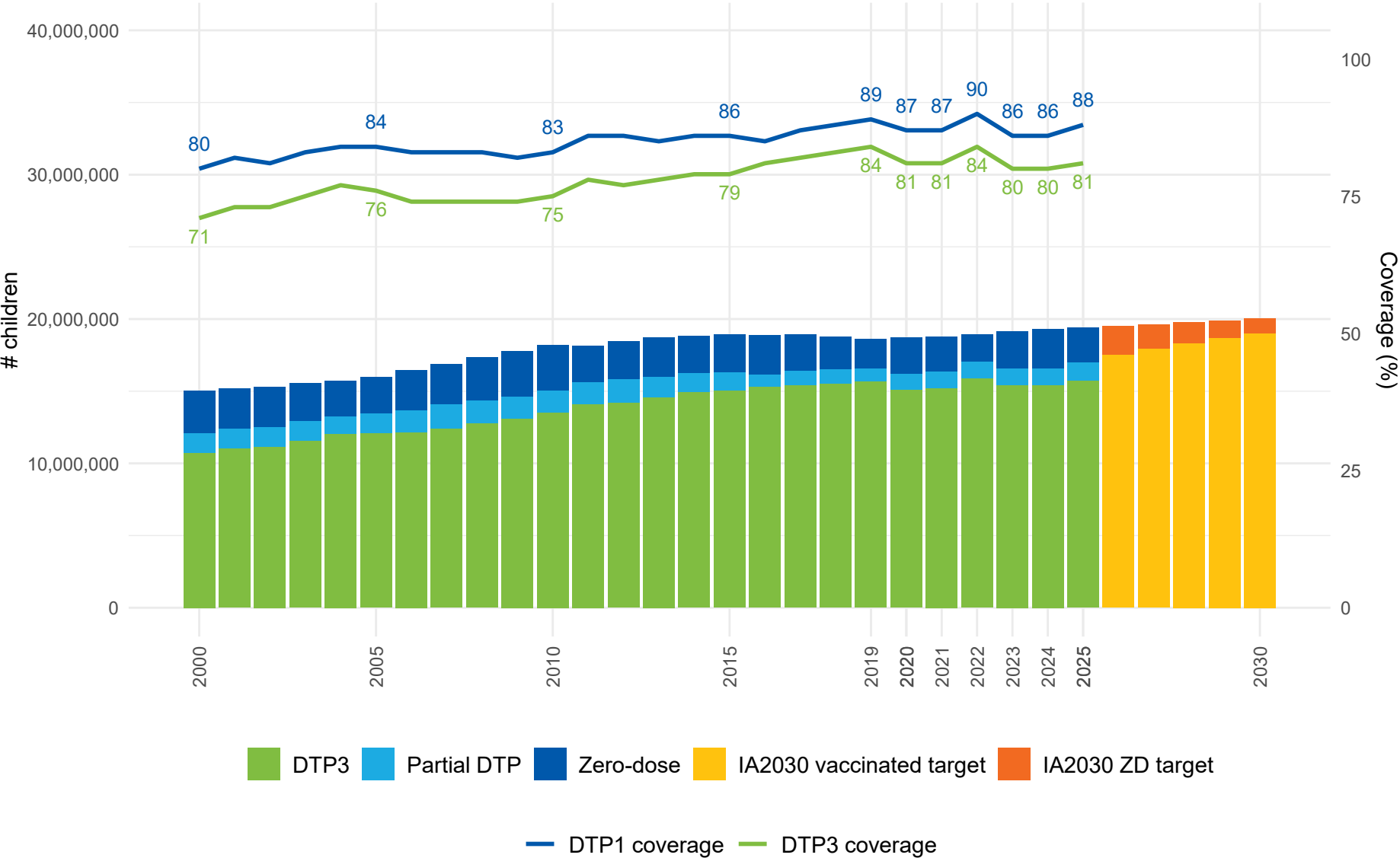
In 2021, Pakistan had the highest number of zero-dose children (651,000), followed by Afghanistan (503,000).

In 2025, Yemen had the highest number of zero-dose children (696,000), followed by Afghanistan (480,000).

There was some change in the top 3 countries between 2021 and 2025.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Number in parentheses is the number of zero-dose children.
Zero-dose children are those who did not receive DTP1.

DTP coverage (%), number of children fully, partially and unvaccinated for DTP 2000-2025 and projections to 2030 based on IA2030 target , EMR



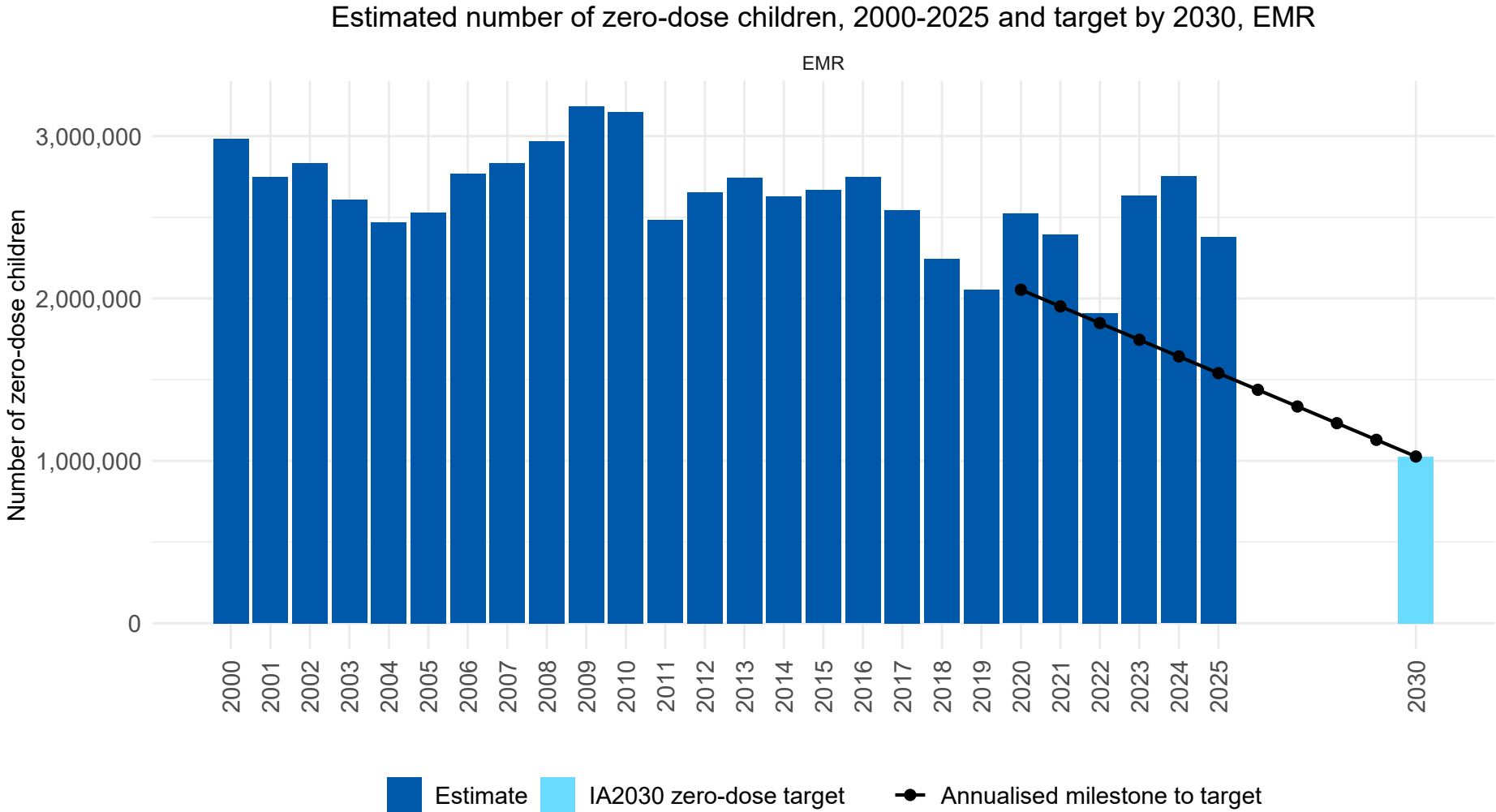
IA2030 calls on all countries to reduce the number of zero dose children in 2019 by half by 2030. This chart shows the annual number of children required to be vaccinated to reach the ZD target.

EMR is projected to have a moderate increase (400,000-1 million) in the number of surviving infants by 2030. Therefore, maintaining current coverage requires vaccinating an increasing number of children.

To achieve the IA2030 ZD target, more (~2.25%) children need to be vaccinated with DTP1 each year. This will require increases in immunization programme and health system capacity.

Sources: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision; United Nations, Department of Economic and Social Affairs, Population Division (2024). World Population Prospects 2024, Online Edition. Note: The Immunization Agenda 2030 (IA2030) calls on all countries to reduce the number of zero dose children in 2019 by half by 2030.

In 2025, the number of zero-dose children was 55% above the annual IA2030 milestone, putting the 2030 goal at serious risk without accelerated action.



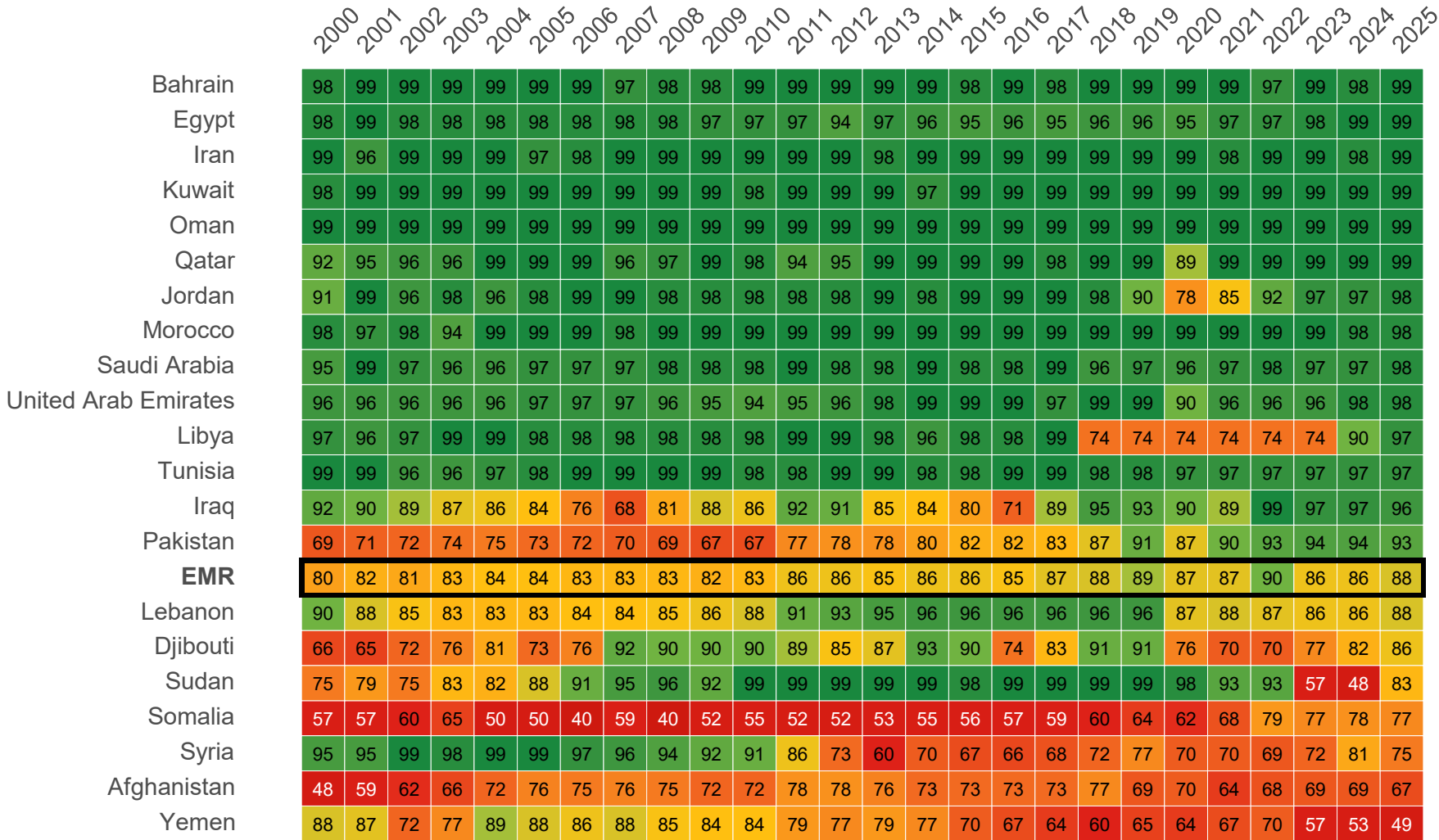
The Immunization Agenda 2030 (IA2030) aims to leave no one behind with immunization and calls on all countries to reduce the number of zero dose children by half by 2030.

- This chart shows:
- Estimated number of zero-dose children in 2000-2024 (dark blue bars)
 - Zero-dose target by 2030 (light blue bar)
 - Trajectory to reach the 2030 target based on a linear decline (points)

In 2025, the number of zero-dose children was approximately 55% higher than the annual milestone to reach the target.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: The Immunization Agenda 2030 (IA2030) calls on all countries to reduce the number of zero dose children in 2019 by half by 2030. The line and points show the yearly progress and trajectory to meet the target by 2030, based on a linear decline.

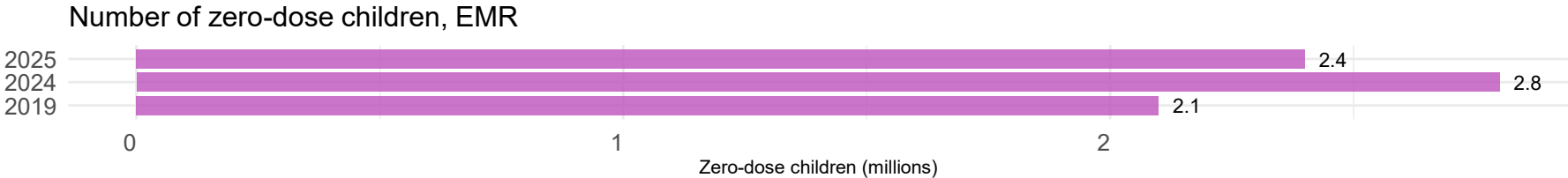
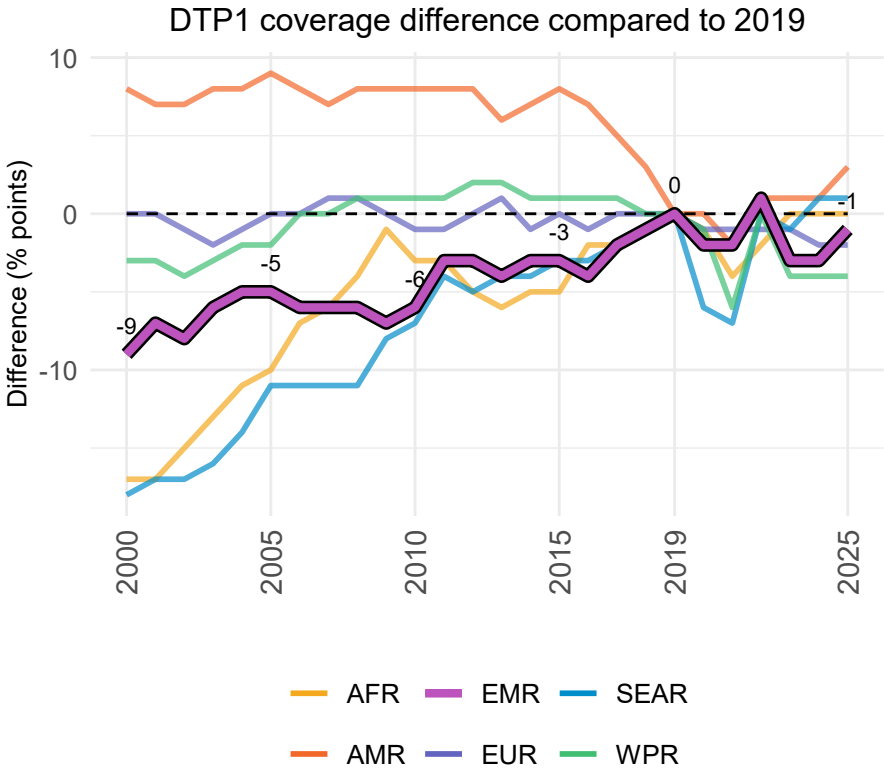
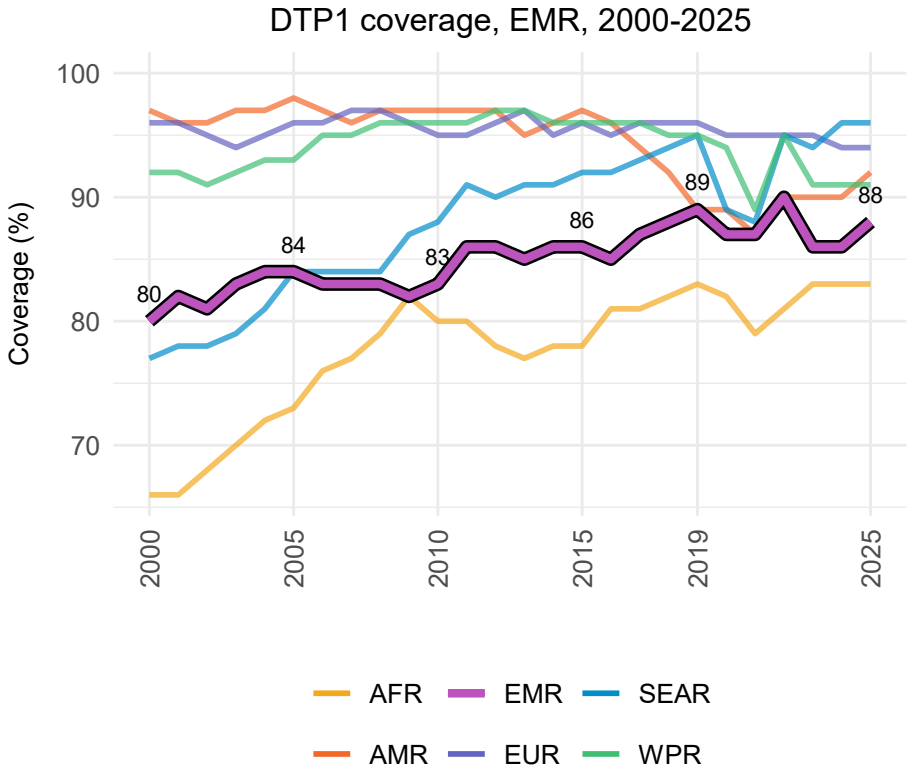
DTP1 coverage, by country, EMR, 2000-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Countries ordered based on descending coverage in 2025

This heatmap shows DTP1 coverage, by region and year. Red indicates low coverage (<60%) and green indicates high coverage (≥90%). The changing colour gradient can be used to tracked changes in coverage over time and recovery from pandemic-related disruptions where applicable.

DTP1 coverage has improved since 2000 in some regions and exceeded pre-pandemic levels in some regions, but progress is uneven and gaps in zero-dose children persist.



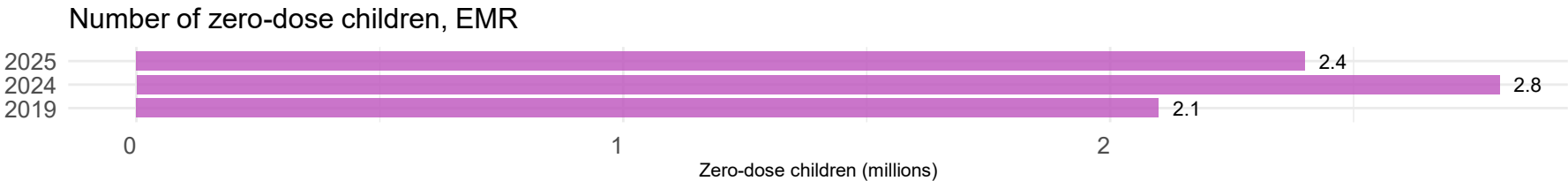
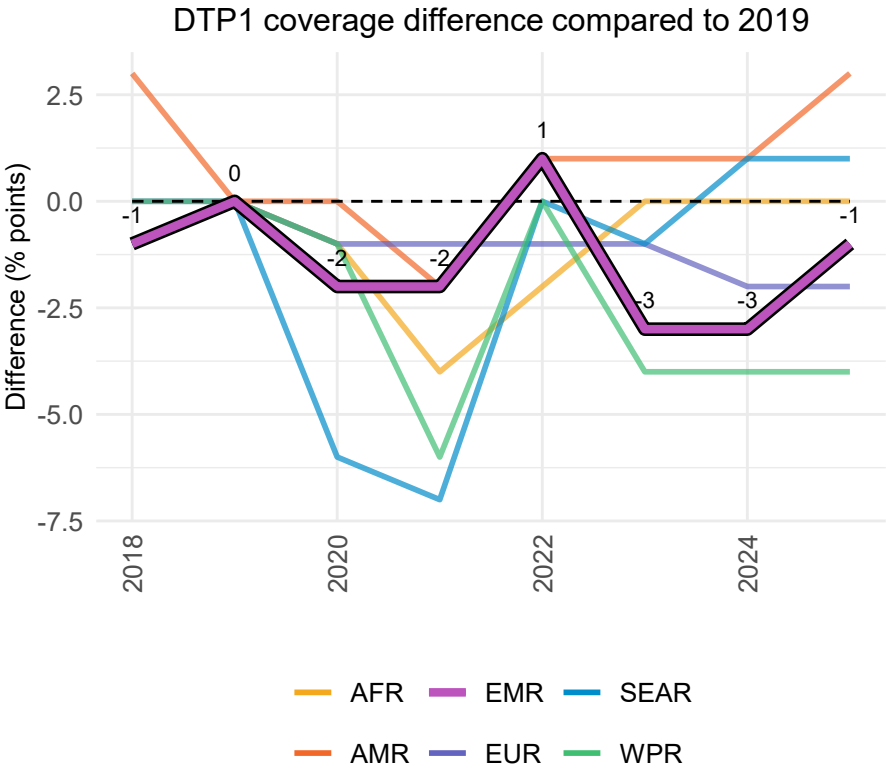
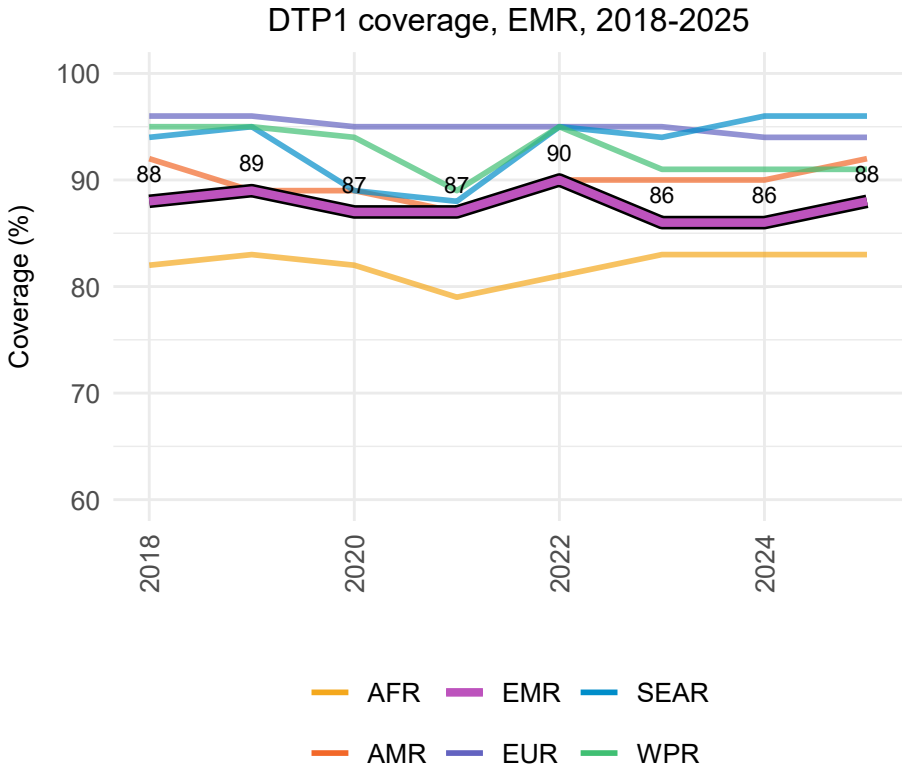
In 2025, EMR ranked number 5 out of 6 WHO regions, with DTP1 coverage of 88%.

DTP1 coverage (88%) was 1 percentage point lower than in 2019 (89%).

This equates to 2.4 million zero-dose children in 2025 compared to 2.1 million zero-dose children in 2019.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Coverage difference compared to 2019 - values above zero indicate coverage higher than in 2019 and values below zero indicate coverage lower than in 2019.
There may be discrepancies in total Zero-dose children (millions) due to rounding.

DTP1 coverage improved between 2024 and 2025 in some regions and exceeded pre-pandemic levels in some regions, but progress is uneven and gaps in zero-dose children persist.



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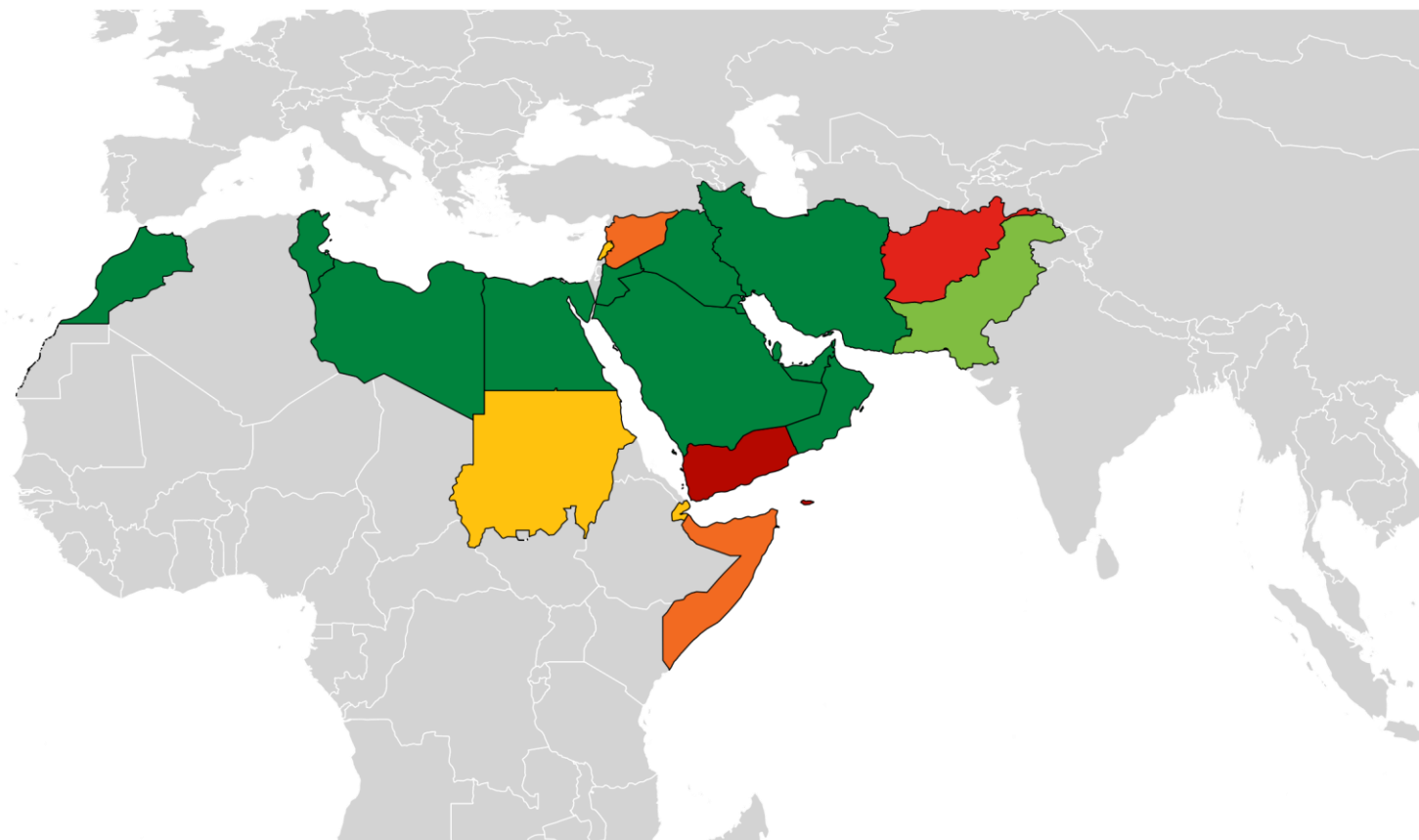
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Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Coverage difference compared to 2019 - values above zero indicate coverage higher than in 2019 and values below zero indicate coverage lower than in 2019.
There may be discrepancies in total Zero-dose children (millions) due to rounding.

In 2025, 14 countries achieved at least 90% DTP1 coverage, while 2 had coverage below 70%.

DTP1 Coverage (%), EMR, 2025



DTP1 coverage (%) ■ <60 ■ 60-69 ■ 70-79 ■ 80-89 ■ 90-94 ■ >=95

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: This map is stylized and based on an approximate scale. This map does not reflect a position by UNICEF or WHO on the legal status of any country or territory or the delimitation of any frontiers.

In EMR, 2 out of 21 (10%) countries had DTP1 coverage below 70% in 2025. These are Afghanistan and Yemen.

These countries account for approximately 2.8 million (15%) of the total annual cohort of surviving infants in the region.

There were 14 (67%) countries that achieved DTP1 of 90% or higher, accounting for 13.3 million (69%) of the total cohort.

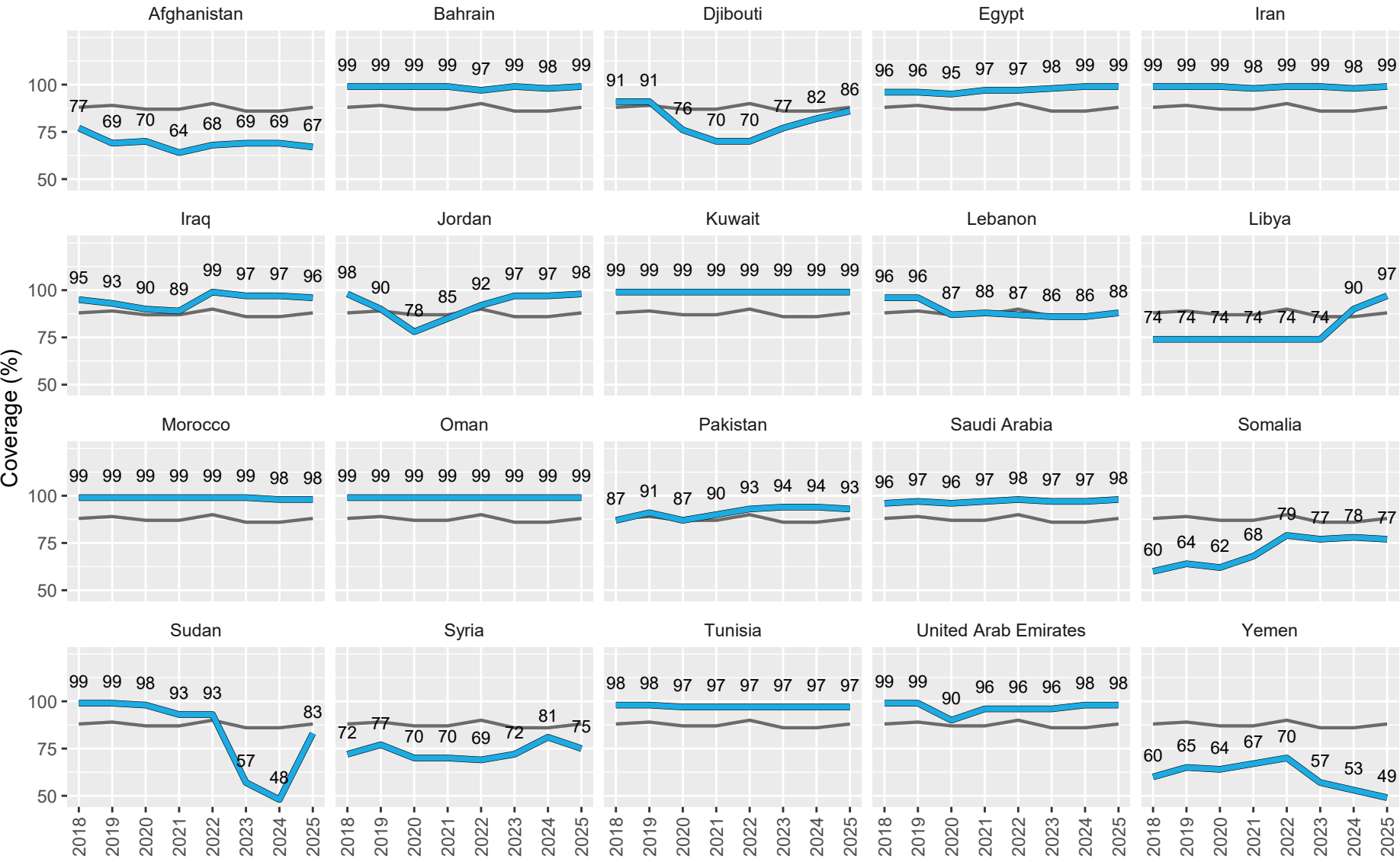
unicef

World Health Organization

WUENIC 2025 revision

Coverage of DTP1, by country, EMR, 2018-2025

Showing top 20 countries with the lowest coverage in 2025



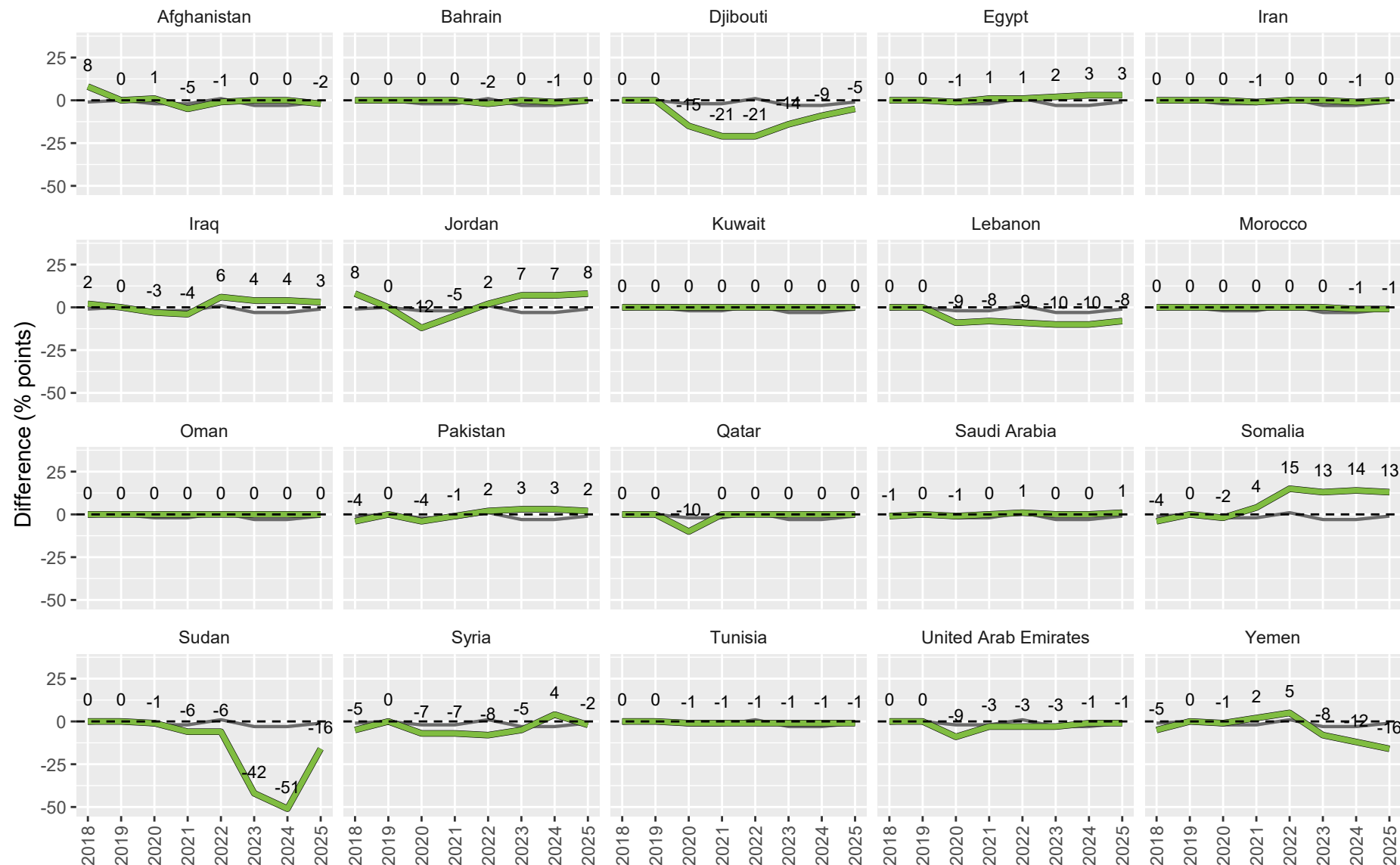
Among the 20 countries with the lowest DTP1 coverage in 2025, Bahrain, Egypt, Iran, Kuwait, and Oman had the highest coverage (99%), while Yemen had the lowest coverage (49%).

DTP1 coverage increased in 8 out of these 20 countries between 2024 and 2025. The largest increase was 35 percentage points in Sudan from 48% to 83%.

6 countries saw a decrease in coverage (Afghanistan, Iraq, Pakistan, Somalia, Syria, and Yemen). The largest decline was 6% points in Syria from 81% to 75%. Coverage remained constant between 2024 and 2025 in the remaining 6 countries.

In 2025, 13 out of these 20 countries had achieved DTP1 coverage of at least 90%.

DTP1 coverage difference compared to 2019, by country, EMR, 2018-2025



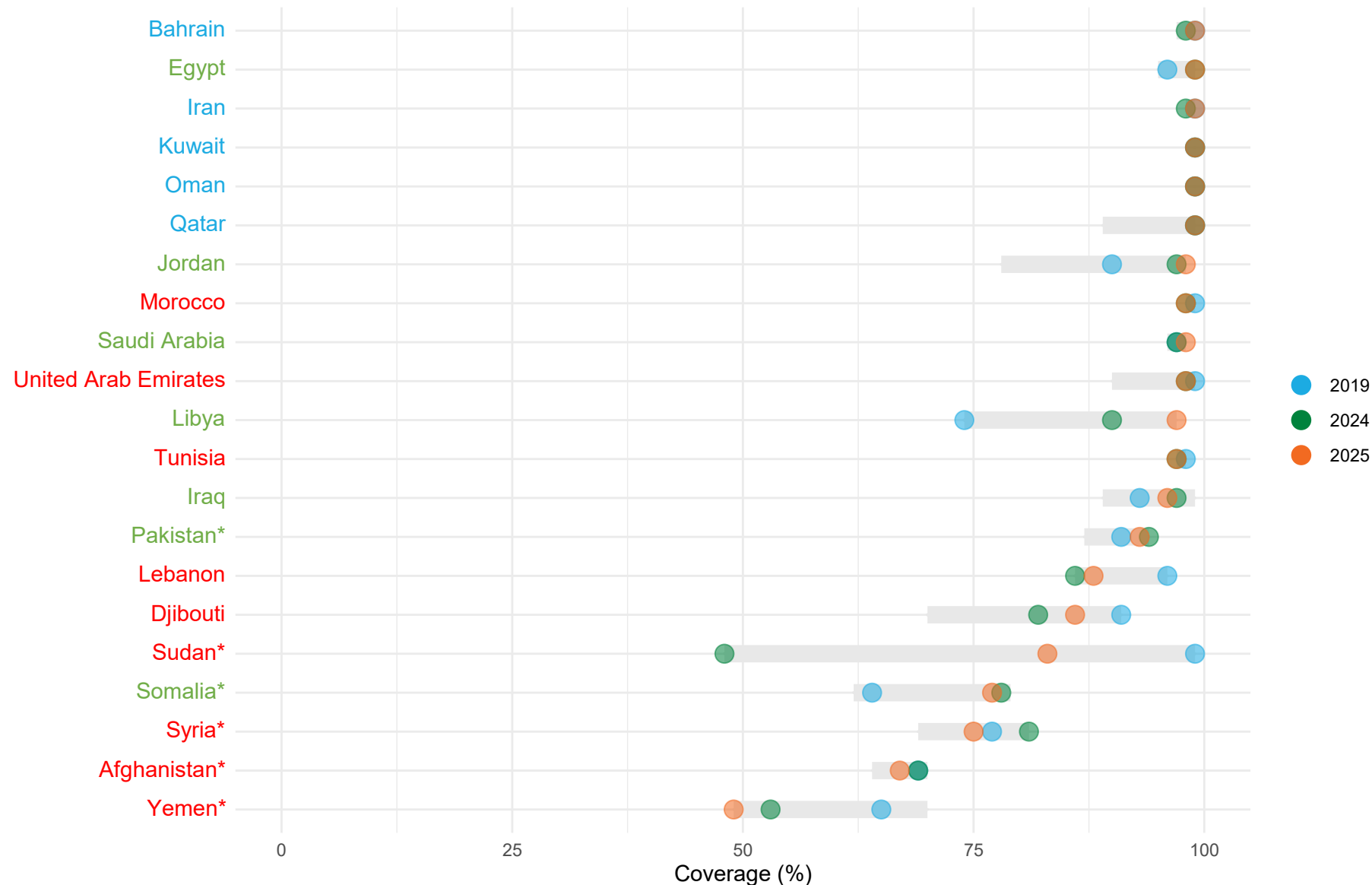
This chart shows the difference in DTP1 coverage compared to 2019, for the 20 countries with the largest declines in coverage between 2019 and 2025. Among the 20 countries with the largest declines in DTP1 coverage between 2019 and 2025, Coverage was higher in 2025 compared to 2019 in 6 of these 20 countries (Egypt, Iraq, Jordan, Pakistan, Saudi Arabia, and Somalia). The largest increase in coverage was 13% points in Somalia from 64% in 2019 to 77% in 2025. Coverage was lower than in 2019 in 9 of these 20 countries (Afghanistan, Djibouti, Lebanon, Morocco, Sudan, Syria, Tunisia, United Arab Emirates, and Yemen). The largest decline in coverage was 16% points in Sudan from 99% in 2019 to 83% in 2025 and Yemen from 65% in 2019 to 49% in 2025. Coverage was unchanged in 5 of these 20 countries (Bahrain, Iran, Kuwait, Oman, and Qatar).

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: Dark grey line displays regional coverage difference for reference

ence compared to 2019, values above zero indicate coverage n percentage points higher than in 2019 and values below zero indicate coverage n percentage points lower than in 2019

DTP1 coverage, by country, EMR, 2019-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: The grey bar spans vaccine coverage across all years 2019-2025 and the dots represent coverage in specific years. Countries are arranged by high to low coverage in 2025 and coloured based on if coverage is lower (red), the same as (blue) or higher (green) than in 2019. An asterisk (*) indicates countries aiming to catch-up children missed since 2019 through a Big Catch-up Plan, supported by financing from The Gavi Alliance.

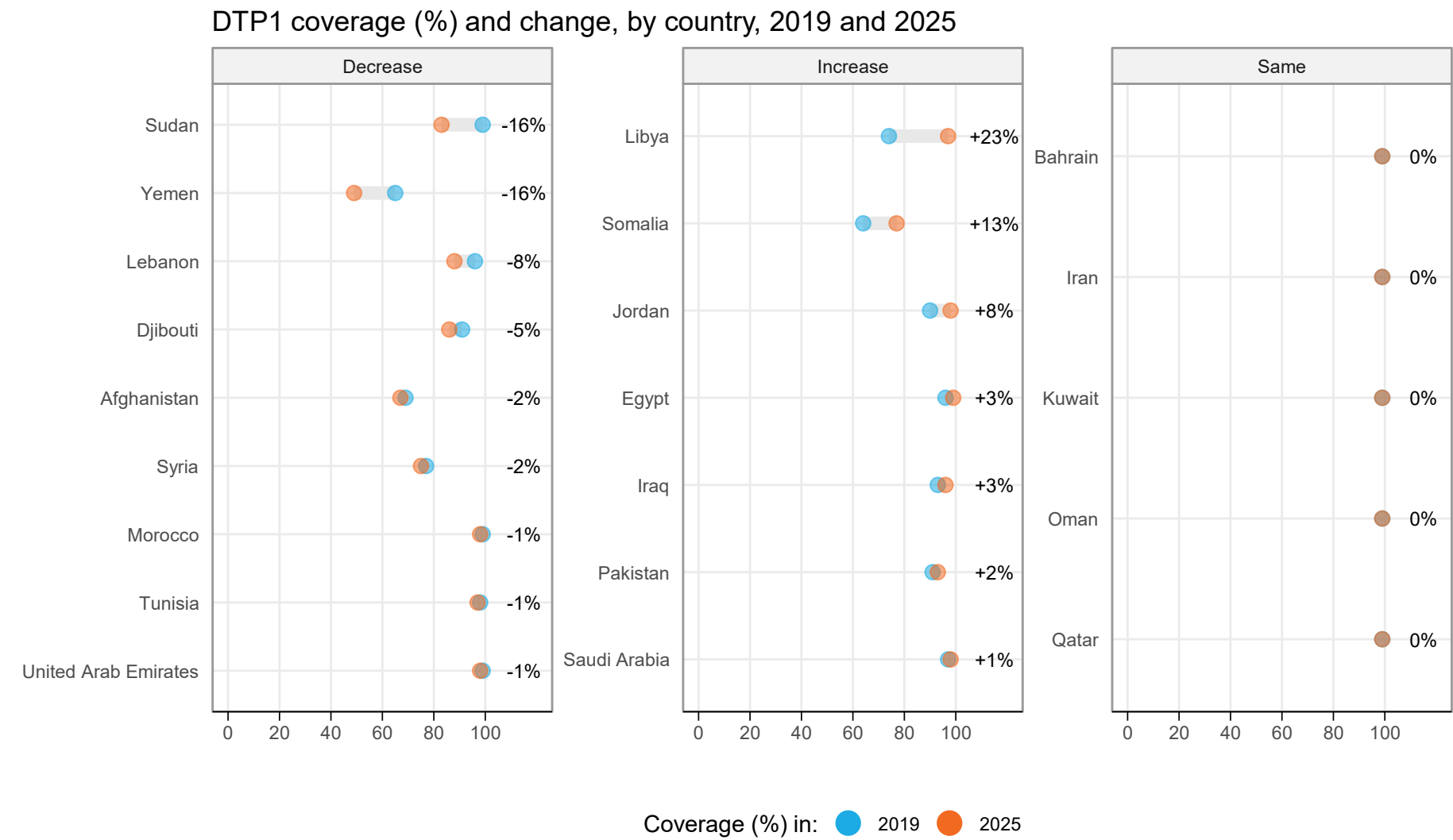
This chart shows the range of DTP1 coverage across years 2019 to 2025 (grey bars), and coverage in specific years (dots), by country. The chart can be used for assessing recovery to pre-pandemic levels and progress beyond 2019.

In 2024, 9 (out of 21) countries had lower coverage than in 2019.

In 2025, 6 countries had lower DTP1 coverage than in 2024.

In 2025, 9 countries had lower coverage than in 2019.

Between 2019 and 2025, DTP1 coverage increased in seven countries and decreased in nine countries.

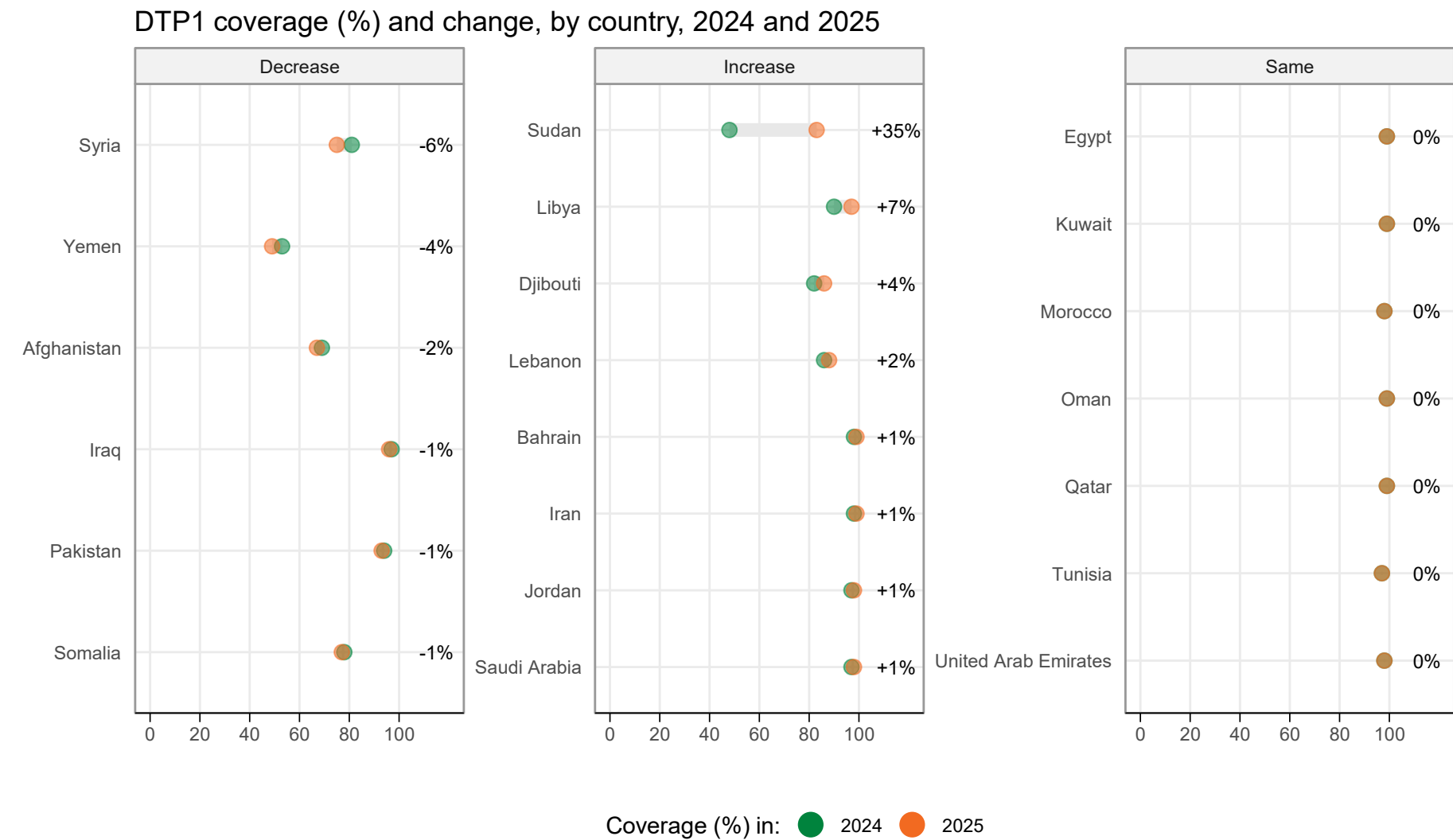


This chart shows DTP1 coverage in 2019 and 2025, and change in coverage between the two years.

Overall, 9 out of 21 (43%) countries in EMR had a decline in coverage. The largest decline was in Sudan and Yemen (-16 percentage points), followed by Lebanon (-8 percentage points).

There were 7 (33%) countries with an increase in DTP1 coverage. Coverage remained the same in 5 countries between 2019 and 2025.

Between 2024 and 2025, DTP1 coverage increased in eight countries and decreased in six countries.

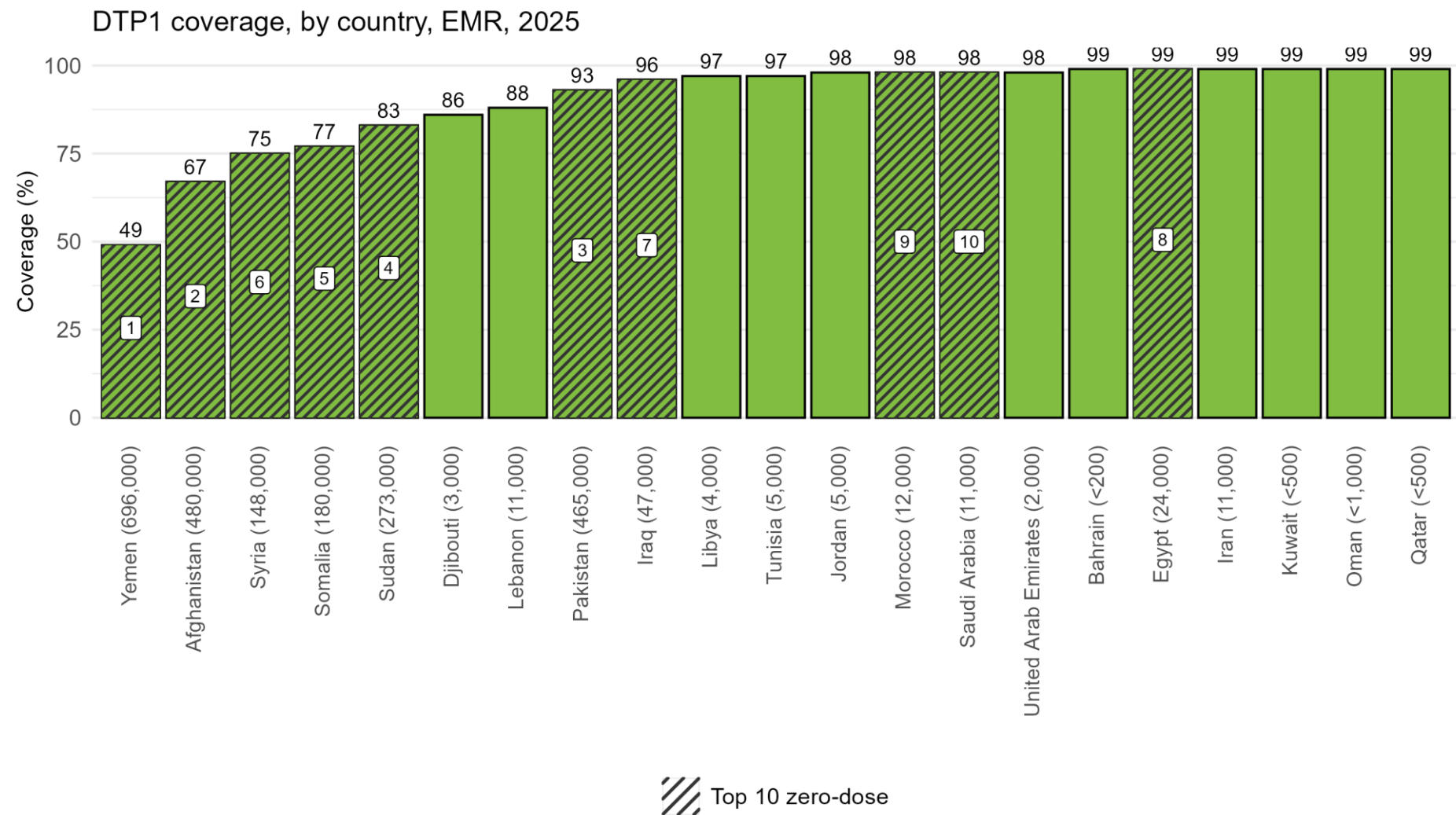


This chart shows DTP1 coverage in 2024 and 2025, and change in coverage between the two years.

Overall, 6 out of 21 (29%) countries in EMR had a decline in coverage. The largest decline was in Syria (-6 percentage points), followed by Yemen (-4 percentage points).

There were 8 (38%) countries with an increase in DTP1 coverage. Coverage remained the same in 7 countries between 2024 and 2025.

In 2025, Yemen had the lowest DTP1 coverage and also the highest number of zero-dose children.



This chart shows DTP1 coverage in countries in EMR from lowest to highest coverage, and the rank of the top 10 countries with the most zero-dose children, based on absolute numbers.

In 2025, DTP1 coverage ranged from 49% in Yemen to 99% in Egypt, Iran, Oman, Kuwait, Qatar, and Bahrain.

14 out of 21 (67%) countries had coverage of at least 90%.

Yemen had DTP1 coverage of 49% and the highest absolute number of zero-dose children in the region, followed by Afghanistan.

Large cohort countries may have high numbers of zero-dose children despite high vaccine coverage. It is advantageous to look at both coverage and absolute numbers of unvaccinated children to ensure vulnerable countries with small birth cohorts are not missed.

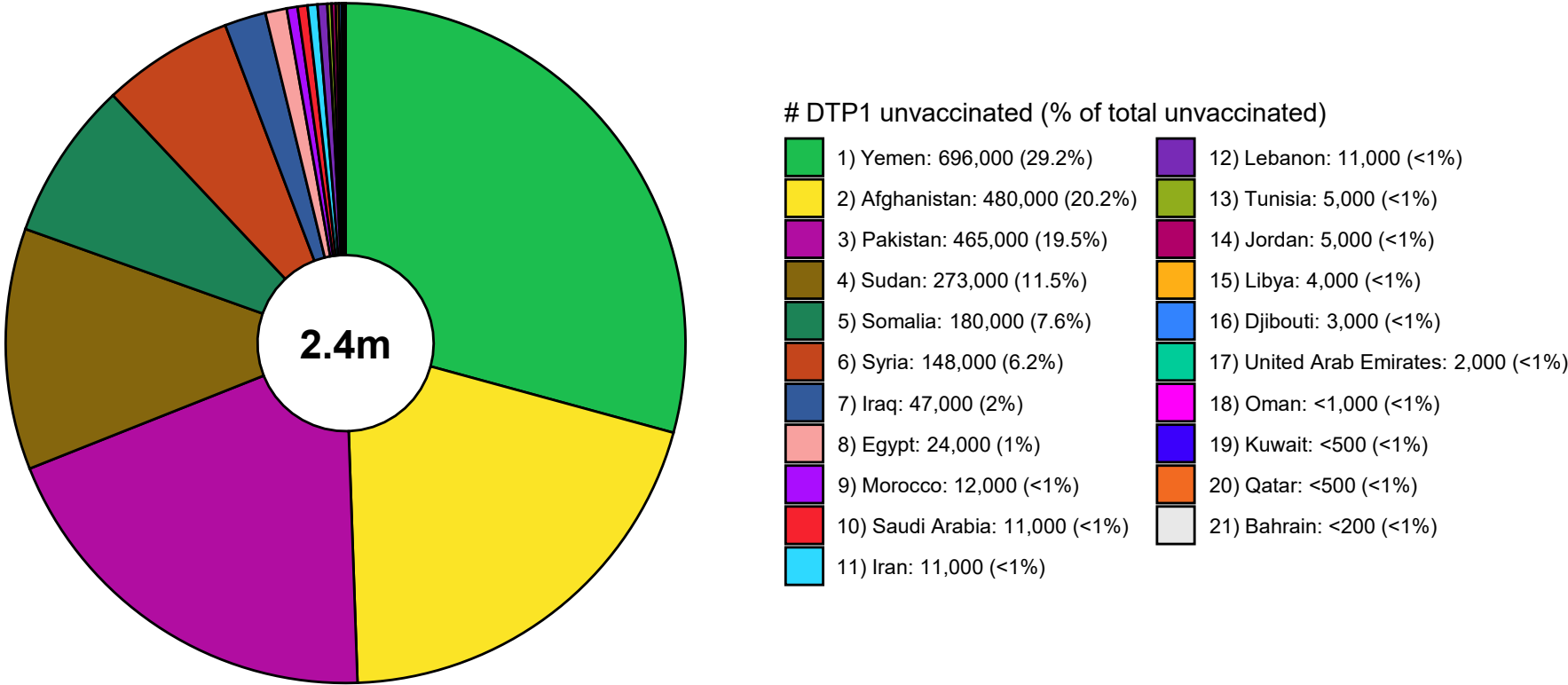
Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: Bars are ranked by ascending coverage.

Numbers in bubbles display top 10 rank based on absolute number of zero-dose children. Number in parentheses shows number of zero-dose children.

In 2025, 3 countries accounted for over half of all zero-dose children in EMR, with Yemen contributing the highest share.

DTP1 unvaccinated (% of total unvaccinated)



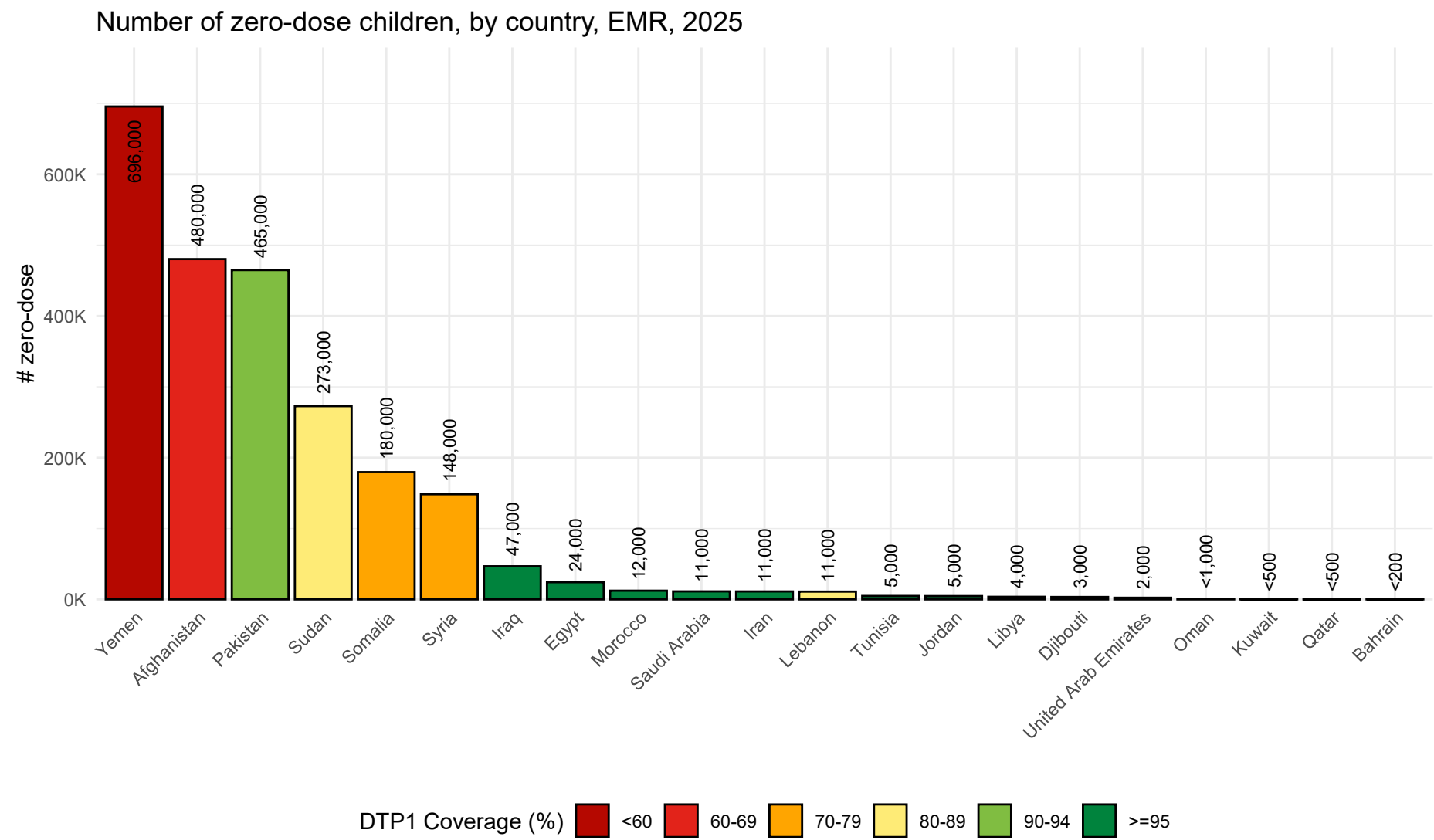
Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Number in legend corresponds to region ranking based on highest to lowest absolute number of unvaccinated children and reflects order of pie slices.

In 2025, 3 countries accounted for over half (68.9%) of all zero-dose children in EMR.

Yemen had the highest number of children who did not receive DTP1 (n=696,000), which is approximately 29.2% of all zero-dose children in EMR (n=2.4 million).

The number of unvaccinated children is influenced by both the birth cohort size and programme performance. As a result, countries with large birth cohorts may still have a high number of unvaccinated children, even if coverage rates are high. At the same time, countries with high coverage will also have a greater absolute number of children who are vaccinated. Please refer to the heatmaps for country-specific coverage.

Approximately 75% of zero-dose children in EMR live in just 4 countries, highlighting where intensified efforts could have the greatest regional impact on zero-dose numbers.



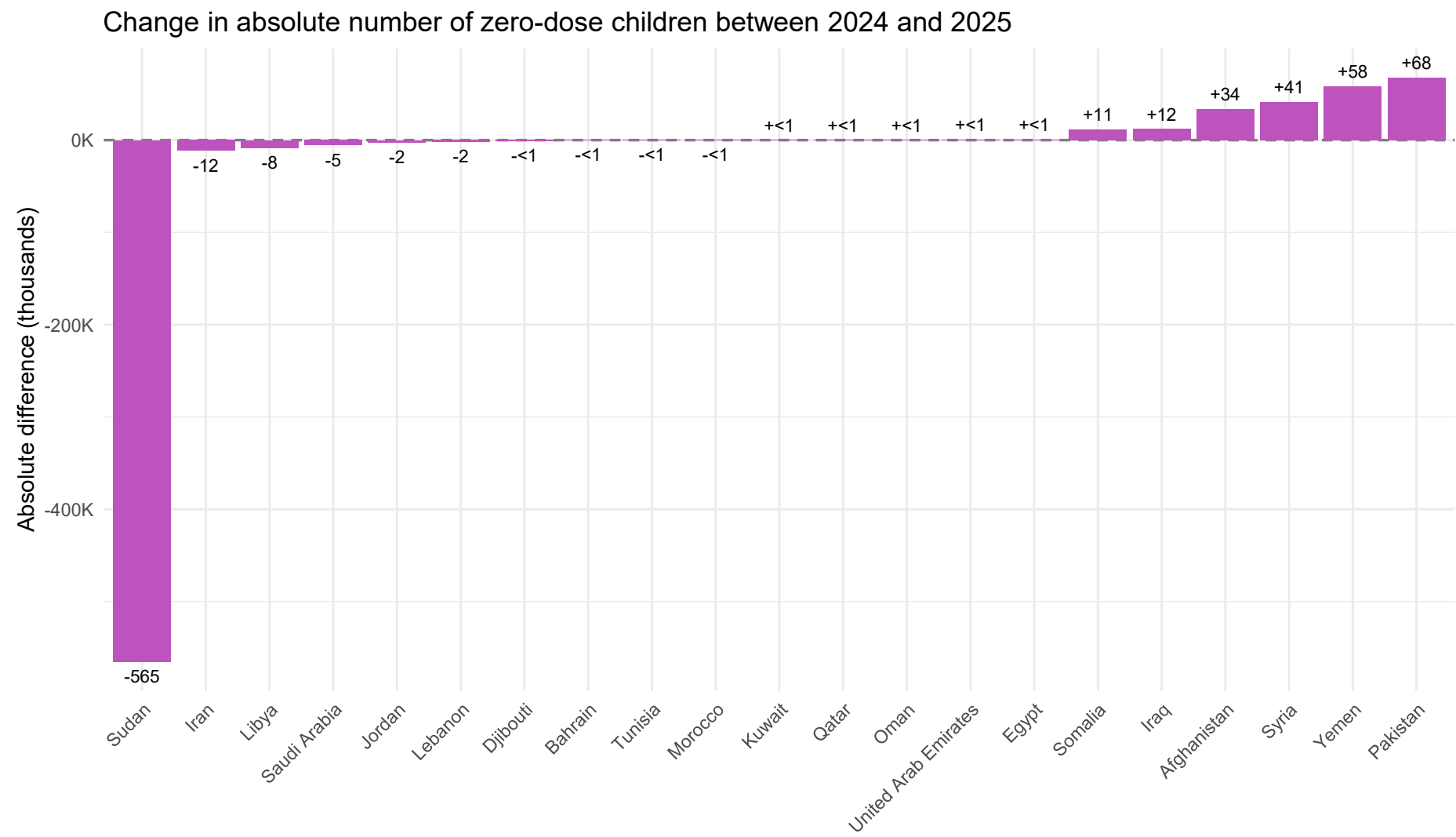
Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

This chart shows the number of zero-dose children in 2025, by country in EMR. Bars are coloured based on DTP1 coverage.

In 2025, Yemen had the highest absolute number of zero-dose children, with 49% DTP1 coverage.

The number of unvaccinated children is influenced by both the birth cohort size and programme performance. As a result, countries with large birth cohorts may still have a high number of unvaccinated children, even if coverage rates are high. At the same time, countries with high coverage will also have a greater absolute number of children who are vaccinated. Please refer to the heatmaps for country-specific coverage.

Country trends in zero-dose children were heterogeneous, reinforcing the need to target resources and strategies to countries where the burden is increasing while sustaining gains elsewhere.



This chart shows the absolute change in number of zero-dose children, by country.

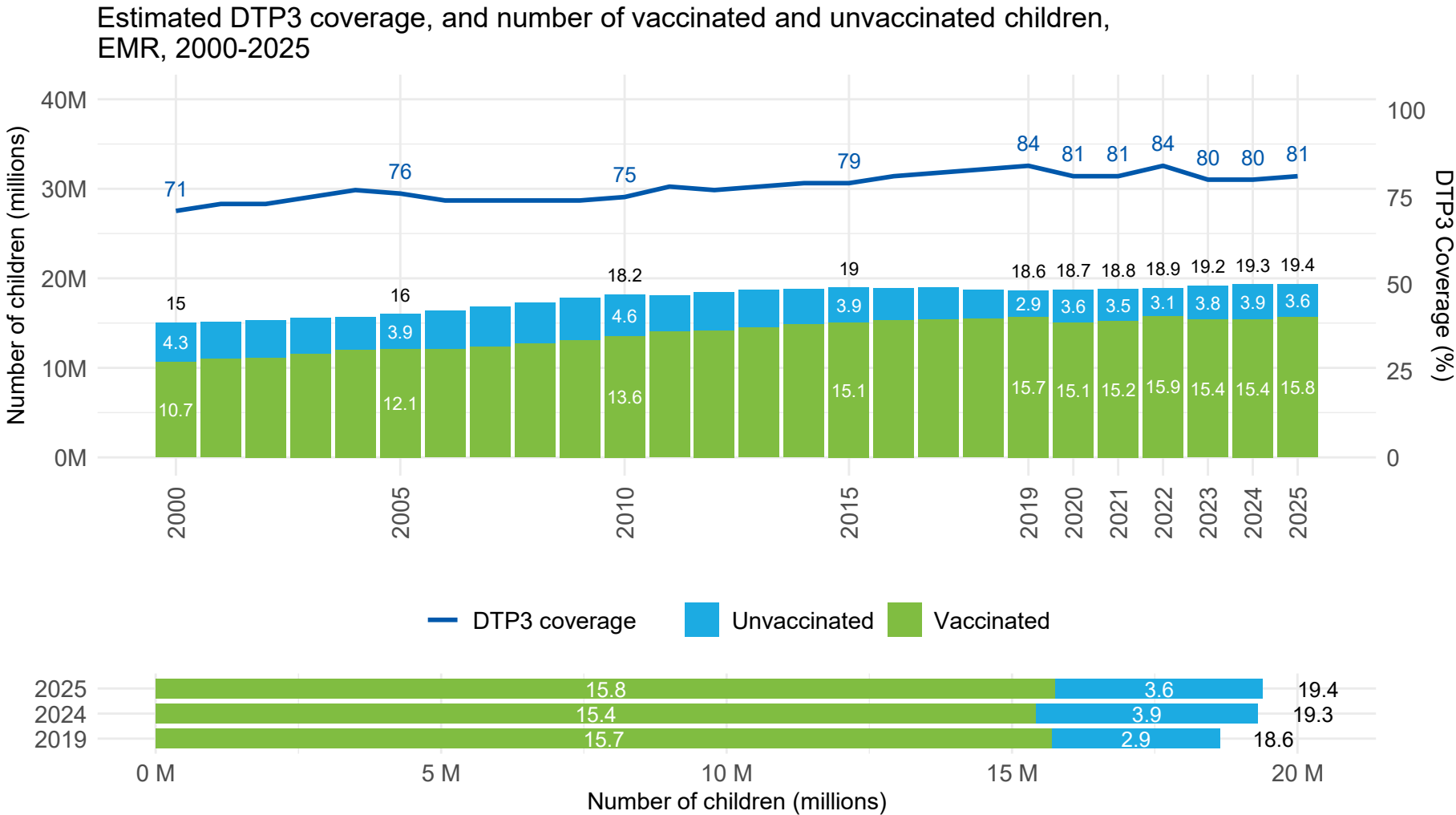
Overall, 11 countries had an increase in zero-dose children and 10 countries saw the number of zero-dose children decline between 2024 and 2025.

The three countries with the largest increase were: Pakistan (397,000 ⇒ 465,000 [+68,000]), Yemen (637,000 ⇒ 696,000 [+58,000]), Syria (107,000 ⇒ 148,000 [+41,000]).

Sudan had the largest decline in the number of zero-dose children from 838,000 in 2024 to 273,000 in 2025 (-565,000).

DTP3

In 2025, DTP3 coverage was 81%: 15.8 million children received three doses of DTP-containing vaccine, but 3.6 million remain un- or under-vaccinated.



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
United Nations, Department of Economic and Social Affairs, Population Division (2024). World Population Prospects 2024, Online Edition.
Note: Unvaccinated includes zero-dose and undervaccinated children.

DTP3 coverage in 2025 (81%) was lower than in 2019 (84%).

The number of children vaccinated with DTP3 was roughly the same in 2019 and 2025, at approximately 15.8 million.

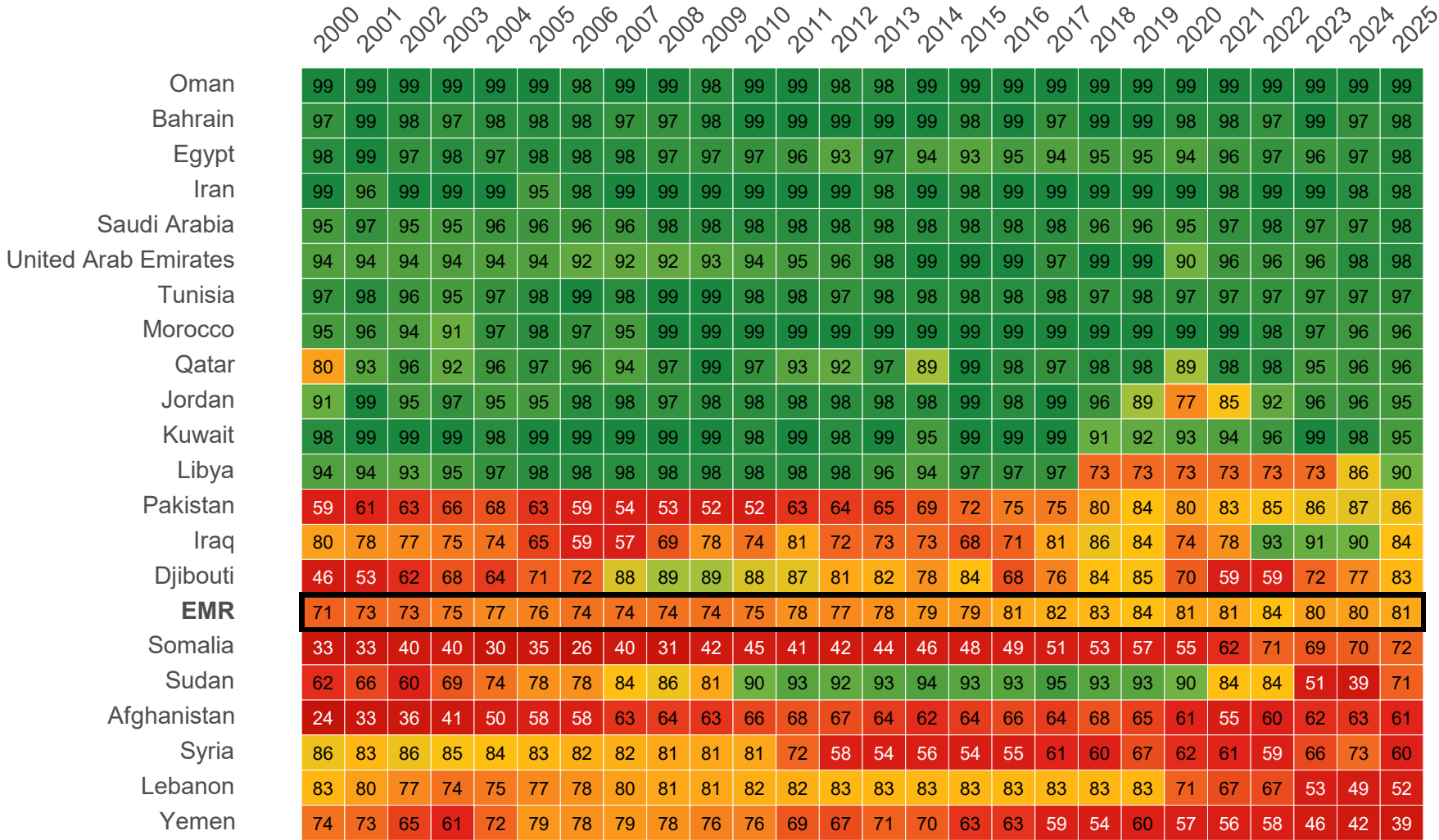
The number of surviving infants increased approximately 4% from 18.6 million in 2019 to 19.4 million in 2025.

In 2025, 64,000 same children were vaccinated than in 2019.

In 2025, there were 746,000 more surviving infants (target population) than in 2019.

For vaccine coverage to increase, the number of children vaccinated must increase at a faster rate than the population increases.

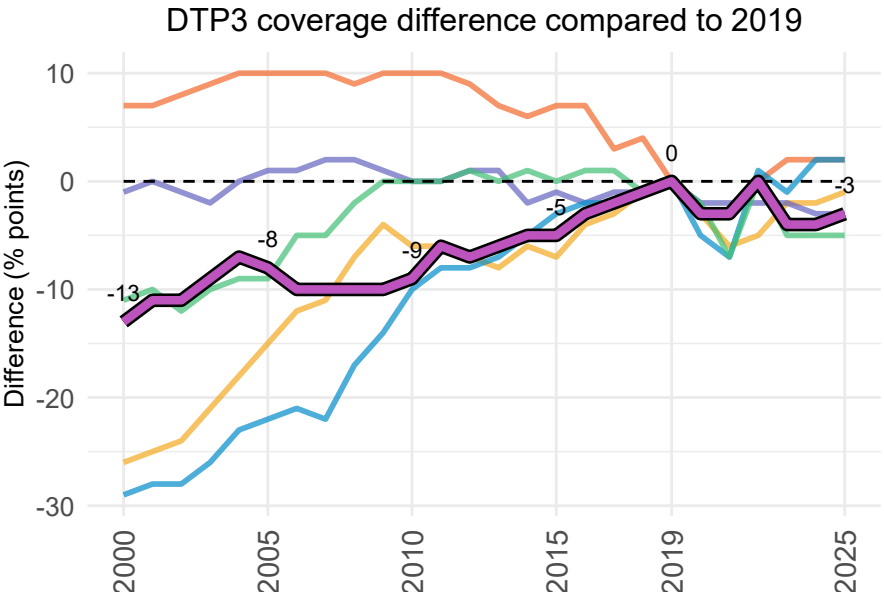
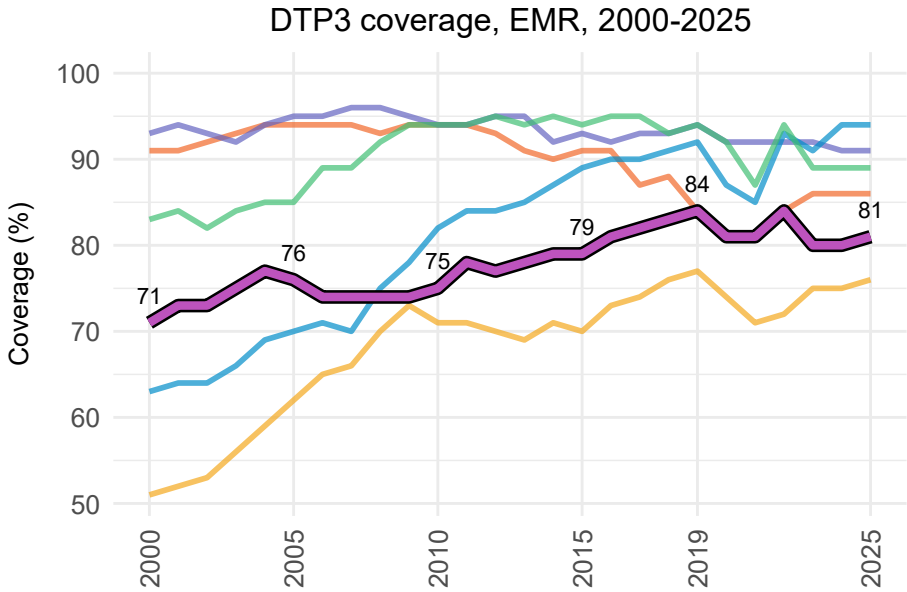
DTP3 coverage, by country, EMR, 2000-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Countries ordered based on descending coverage in 2025

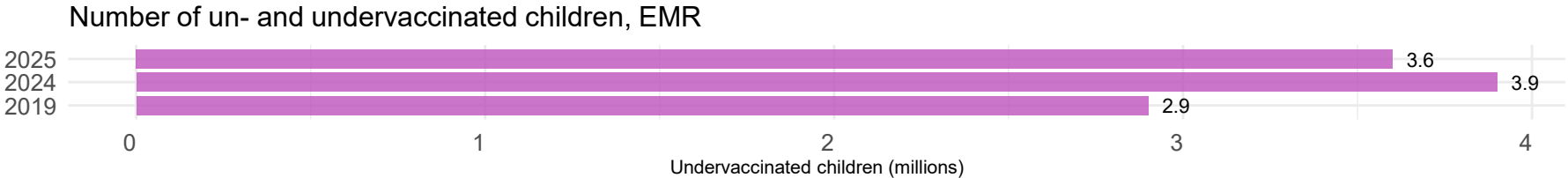
This heatmap shows DTP1 coverage, by region and year. Red indicates low coverage (<60%) and green indicates high coverage (≥90%). The changing colour gradient can be used to tracked changes in coverage over time and recovery from pandemic-related disruptions where applicable.

DTP3 coverage has improved since 2000 in most regions and exceeded pre-pandemic levels in some regions, but progress is uneven and gaps in undervaccinated children persist.



AFR EMR SEAR
AMR EUR WPR

AFR EMR SEAR
AMR EUR WPR



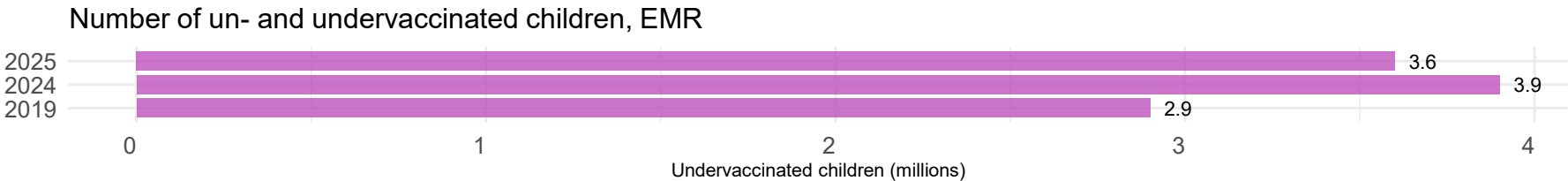
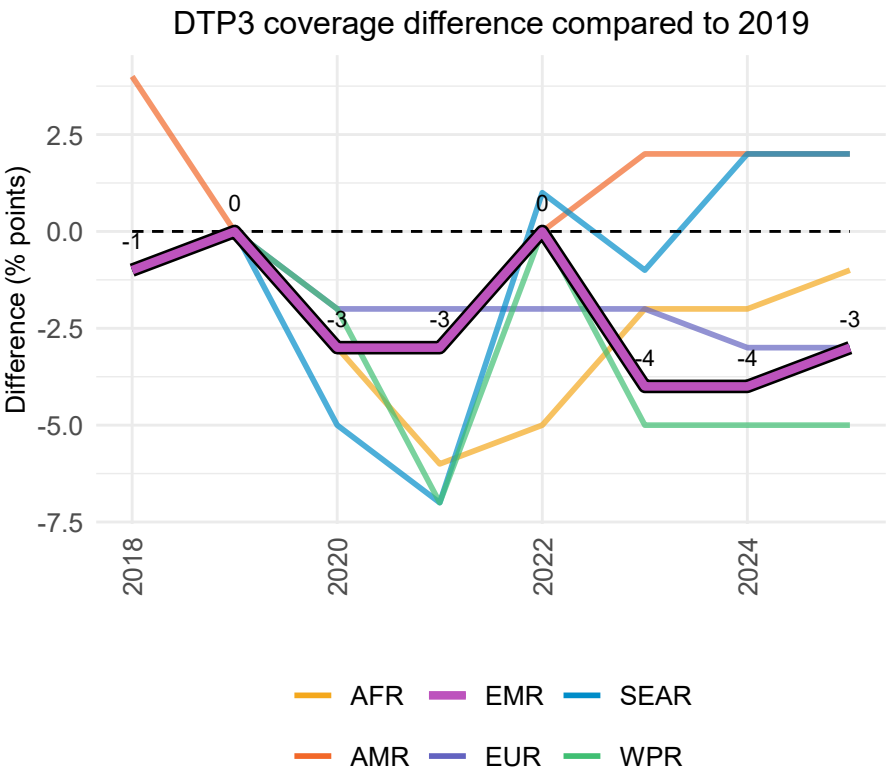
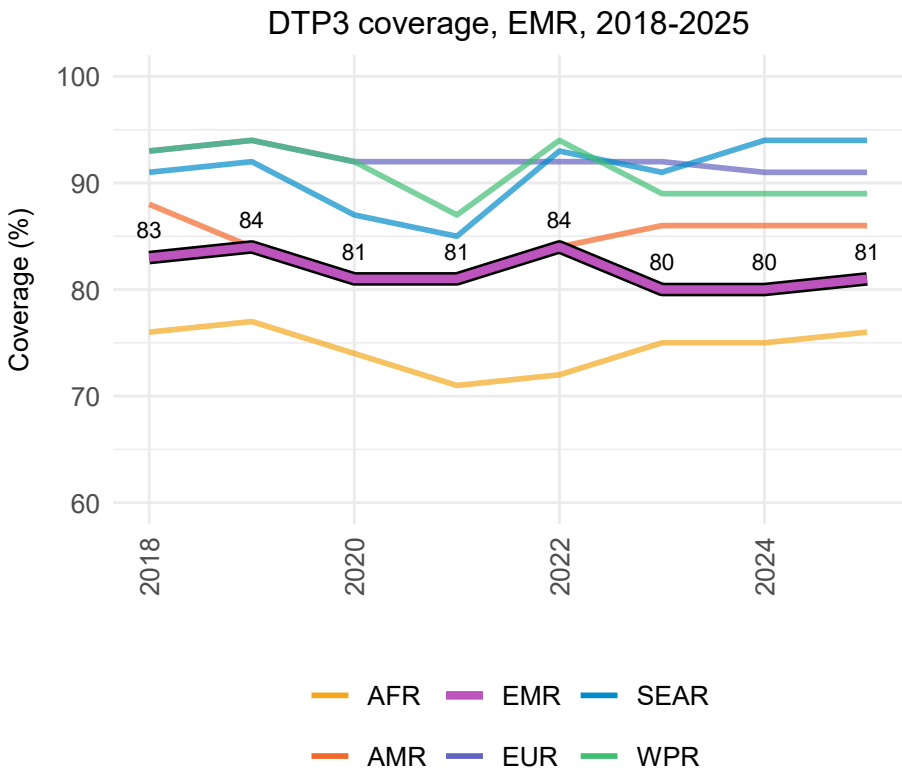
In 2025, EMR ranked number 5 out of 6 WHO regions, with DTP3 coverage of 81%.

DTP3 coverage (81%) was 3 percentage points lower than in 2019 (84%).

This equates to 3.6 million undervaccinated children in 2025 compared to 2.9 million undervaccinated children in 2019.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Coverage difference compared to 2019 - values above zero indicate coverage higher than in 2019 and values below zero indicate coverage lower than in 2019.
There may be discrepancies in total Undervaccinated children (millions) due to rounding.

DTP3 coverage improved between 2024 and 2025 in some regions and exceeded pre-pandemic levels in some regions, but progress is uneven and gaps in undervaccinated children persist.



In 2025, EMR ranked number 5 out of 6 WHO regions, with DTP3 coverage of 81%.

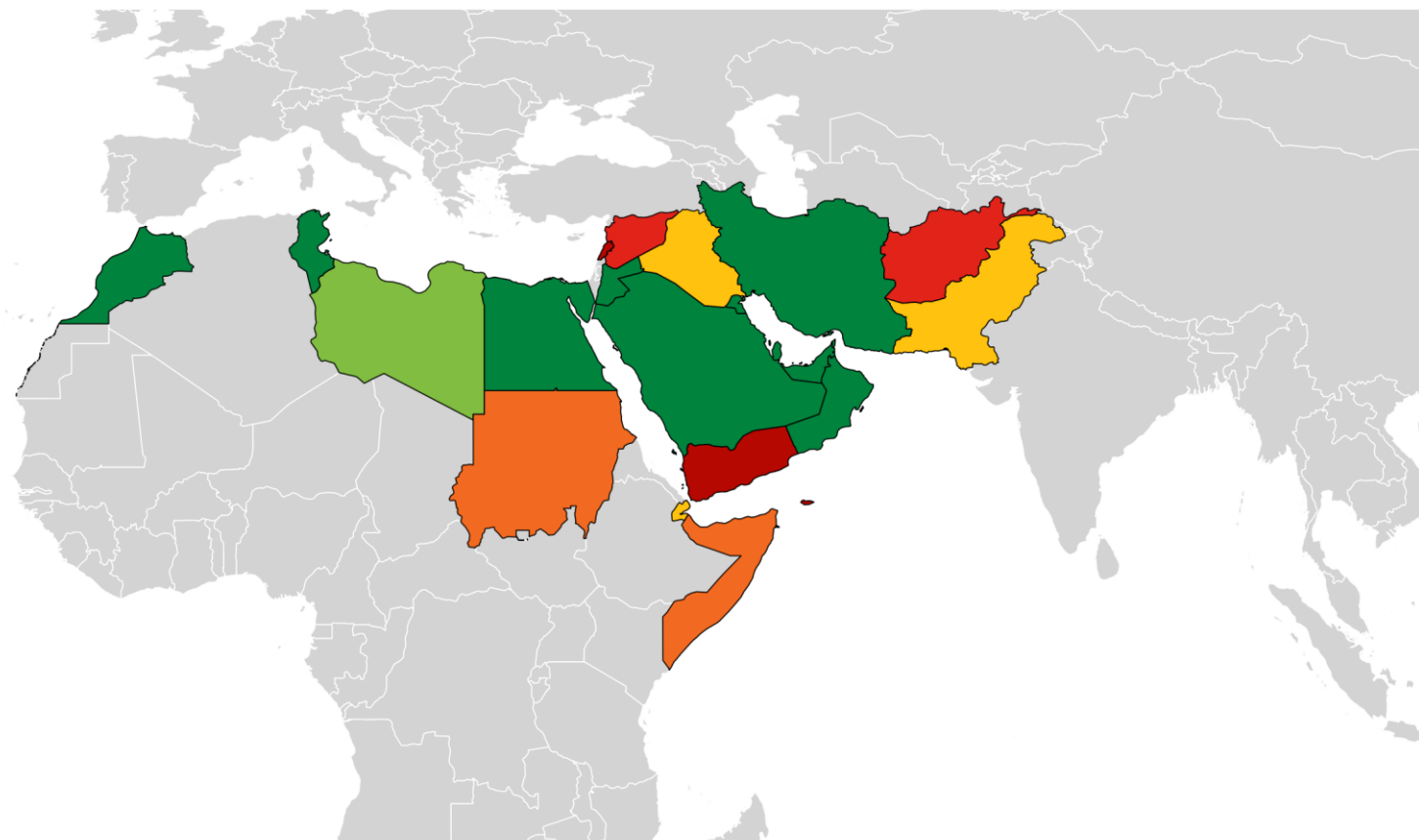
DTP3 coverage (81%) was 3 percentage points lower than in 2019 (84%).

This equates to 3.6 million undervaccinated children in 2025 compared to 2.9 million undervaccinated children in 2019.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Coverage difference compared to 2019 - values above zero indicate coverage higher than in 2019 and values below zero indicate coverage lower than in 2019.
There may be discrepancies in total Undervaccinated children (millions) due to rounding.

In 2025, 12 countries achieved at least 90% DTP3 coverage, while 4 had coverage below 70%.

DTP3 Coverage (%), EMR, 2025



DTP3 coverage (%) ■ <60 ■ 60-69 ■ 70-79 ■ 80-89 ■ 90-94 ■ >=95

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: This map is stylized and based on an approximate scale. This map does not reflect a position by UNICEF or WHO on the legal status of any country or territory or the delimitation of any frontiers.

In EMR, 4 out of 21 (19%) countries had DTP3 coverage below 70% in 2025. These are Afghanistan, Lebanon, Syria, and Yemen.

These countries account for approximately 3.5 million (18%) of the total annual cohort of surviving infants in the region.

There were 12 (57%) countries that achieved DTP3 of 90% or higher, accounting for 5.5 million (29%) of the total cohort.

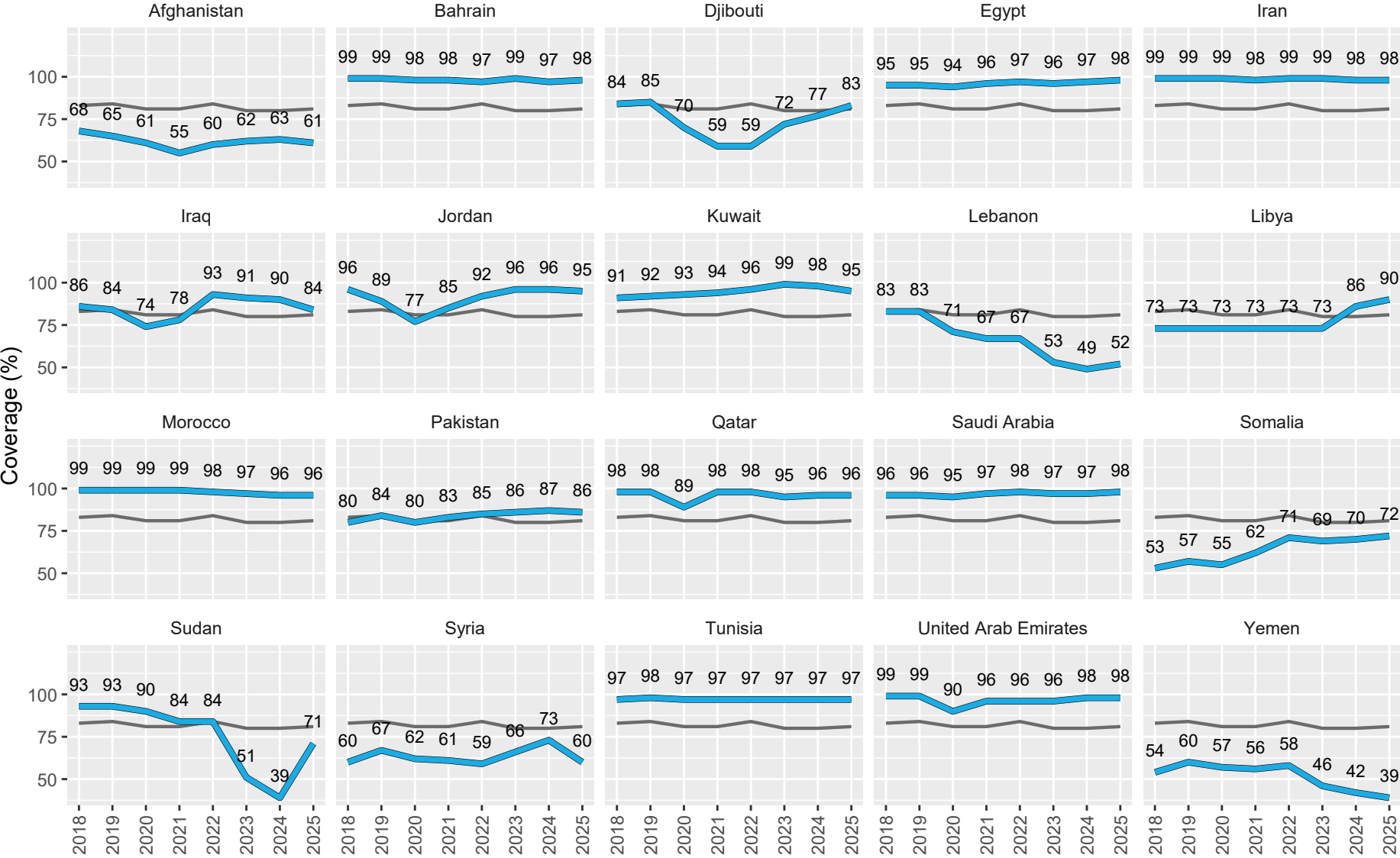
unicef

World Health Organization

WUENIC 2025 revision

Coverage of DTP3, by country, EMR, 2018-2025

Showing top 20 countries with the lowest coverage in 2025



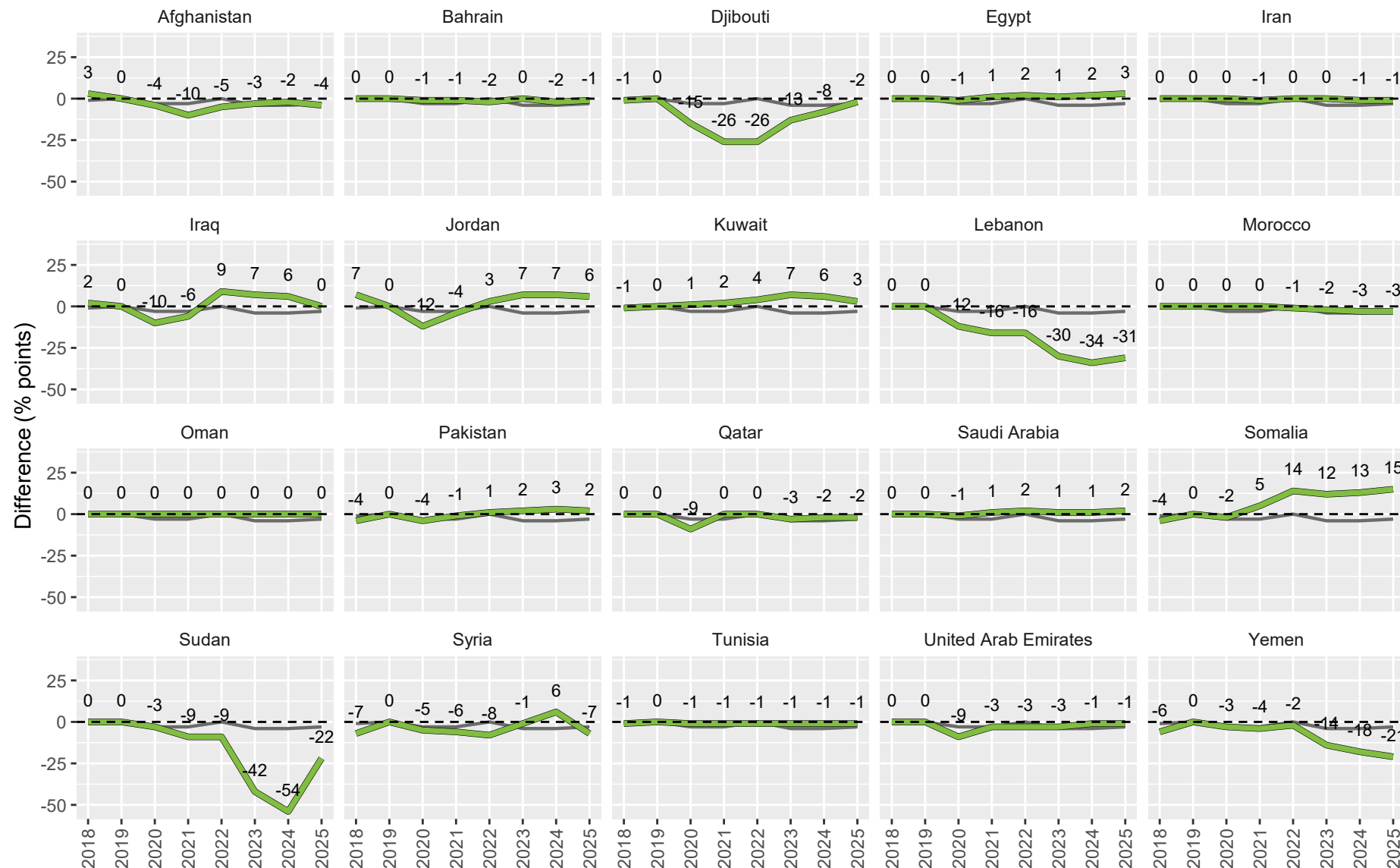
Among the 20 countries with the lowest DTP3 coverage in 2025, Bahrain, Egypt, Iran, Saudi Arabia, and United Arab Emirates had the highest coverage (98%), while Yemen had the lowest coverage (39%).

DTP3 coverage increased in 8 out of these 20 countries between 2024 and 2025. The largest increase was 32 percentage points in Sudan from 39% to 71%.

7 countries saw a decrease in coverage (Afghanistan, Iraq, Jordan, Kuwait, Pakistan, Syria, and Yemen). The largest decline was 13% points in Syria from 73% to 60%. Coverage remained constant between 2024 and 2025 in the remaining 5 countries.

In 2025, 11 out of these 20 countries had achieved DTP3 coverage of at least 90%.

DTP3 coverage difference compared to 2019, by country, EMR, 2018-2025



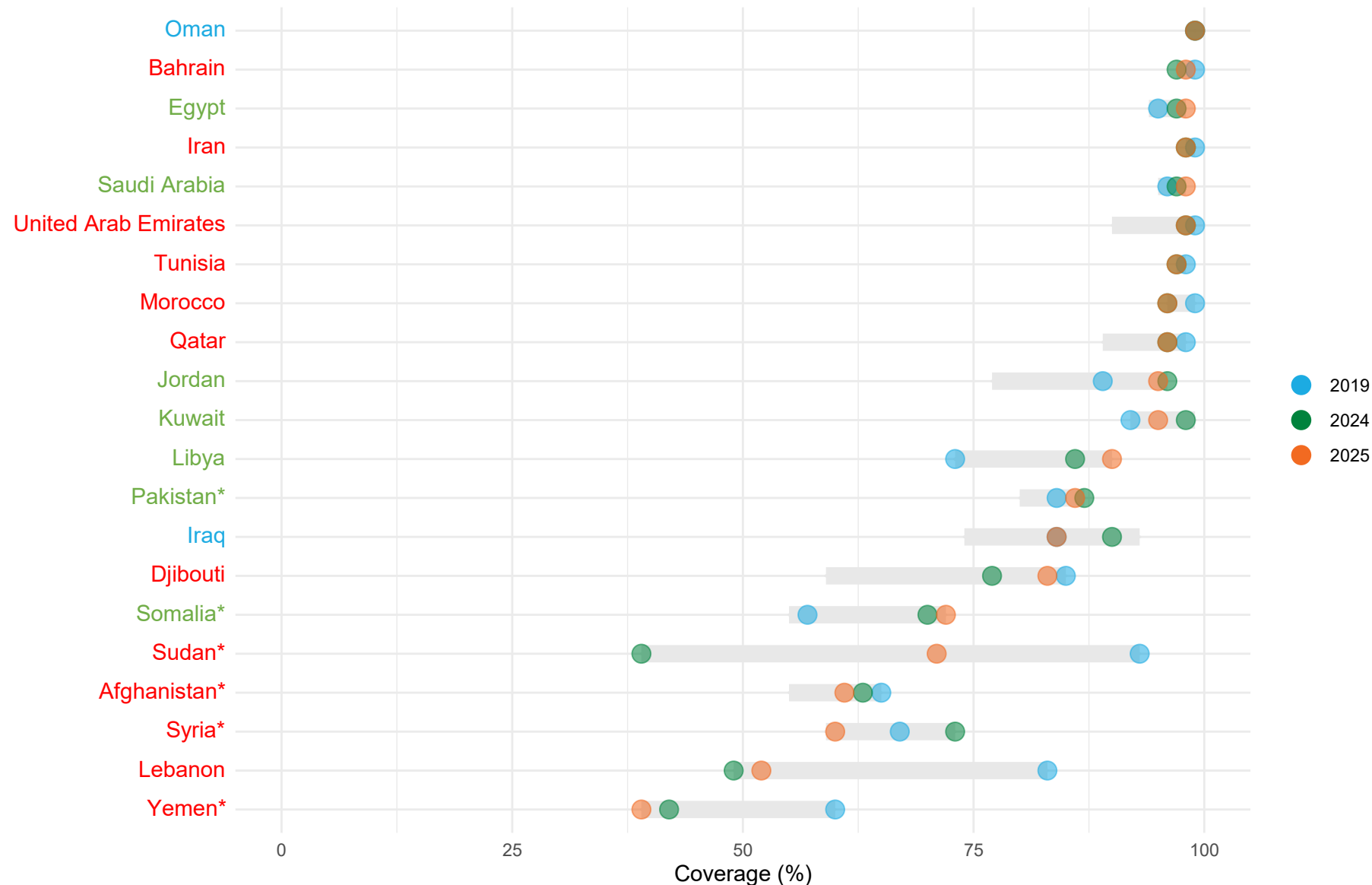
This chart shows the difference in DTP3 coverage compared to 2019, for the 20 countries with the largest declines in coverage between 2019 and 2025. Among the 20 countries with the largest declines in DTP3 coverage between 2019 and 2025, Coverage was higher in 2025 compared to 2019 in 6 of these 20 countries (Egypt, Jordan, Kuwait, Pakistan, Saudi Arabia, and Somalia). The largest increase in coverage was 15% points in Somalia from 57% in 2019 to 72% in 2025. Coverage was lower than in 2019 in 12 of these 20 countries (Afghanistan, Bahrain, Djibouti, Iran, Lebanon, Morocco, Qatar, Sudan, Syria, Tunisia, United Arab Emirates, and Yemen). The largest decline in coverage was 31% points in Lebanon from 83% in 2019 to 52% in 2025. Coverage was unchanged in 2 of these 20 countries (Iraq and Oman).

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: Dark grey line displays regional coverage difference for reference

ence compared to 2019, values above zero indicate coverage n percentage points higher than in 2019 and values below zero indicate coverage n percentage points lower than in 2019

DTP3 coverage, by country, EMR, 2019-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: The grey bar spans vaccine coverage across all years 2019-2025 and the dots represent coverage in specific years. Countries are arranged by high to low coverage in 2025 and coloured based on if coverage is lower (red), the same as (blue) or higher (green) than in 2019. An asterisk (*) indicates countries aiming to catch-up children missed since 2019 through a Big Catch-up Plan, supported by financing from The Gavi Alliance.

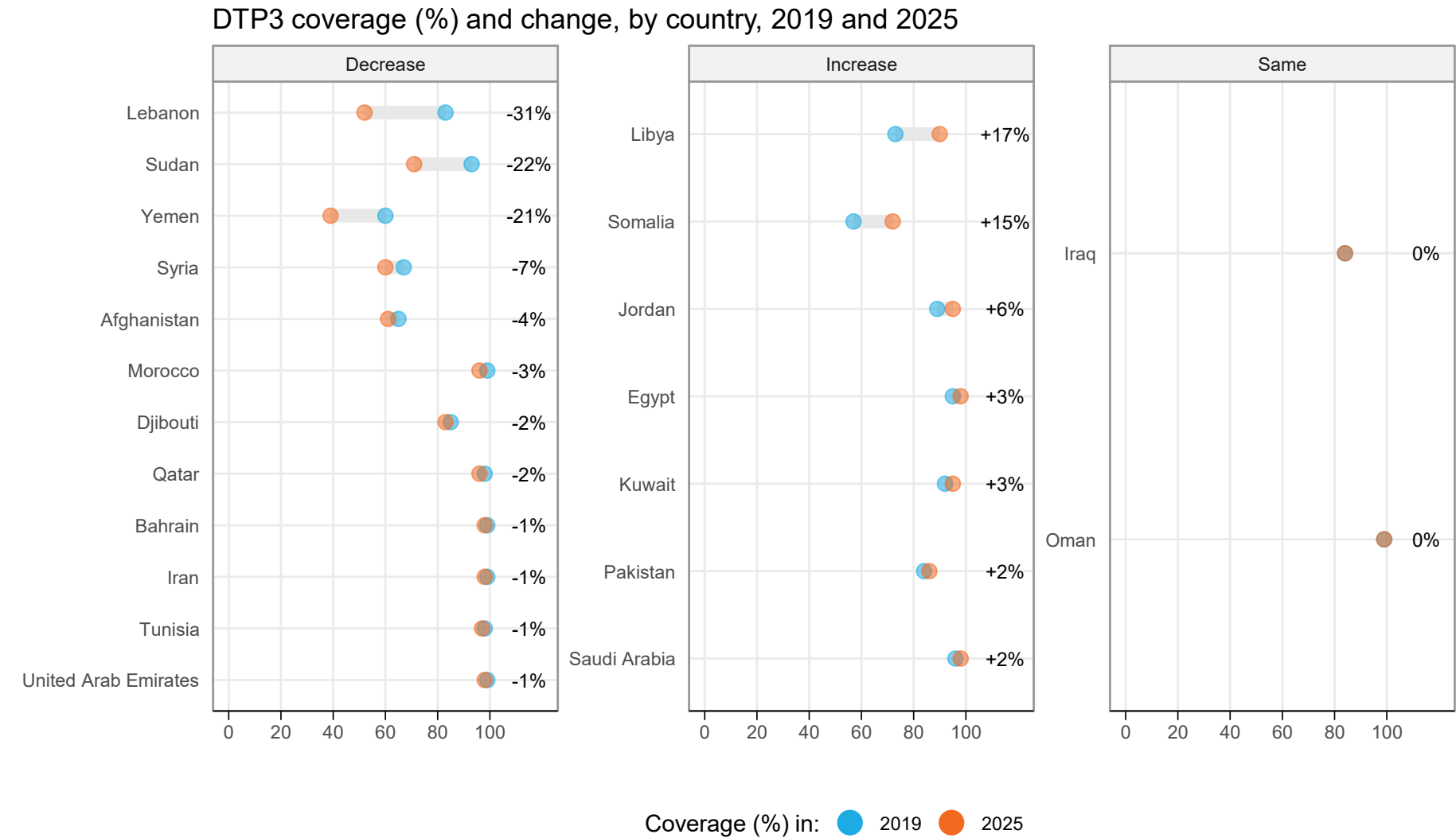
This chart shows the range of DTP3 coverage across years 2019 to 2025 (grey bars), and coverage in specific years (dots), by country. The chart can be used for assessing recovery to pre-pandemic levels and progress beyond 2019.

In 2024, 11 (out of 21) countries had lower coverage than in 2019.

In 2025, 7 countries had lower DTP3 coverage than in 2024.

In 2025, 12 countries had lower coverage than in 2019.

Between 2019 and 2025, DTP3 coverage increased in seven countries and decreased in 12 countries.

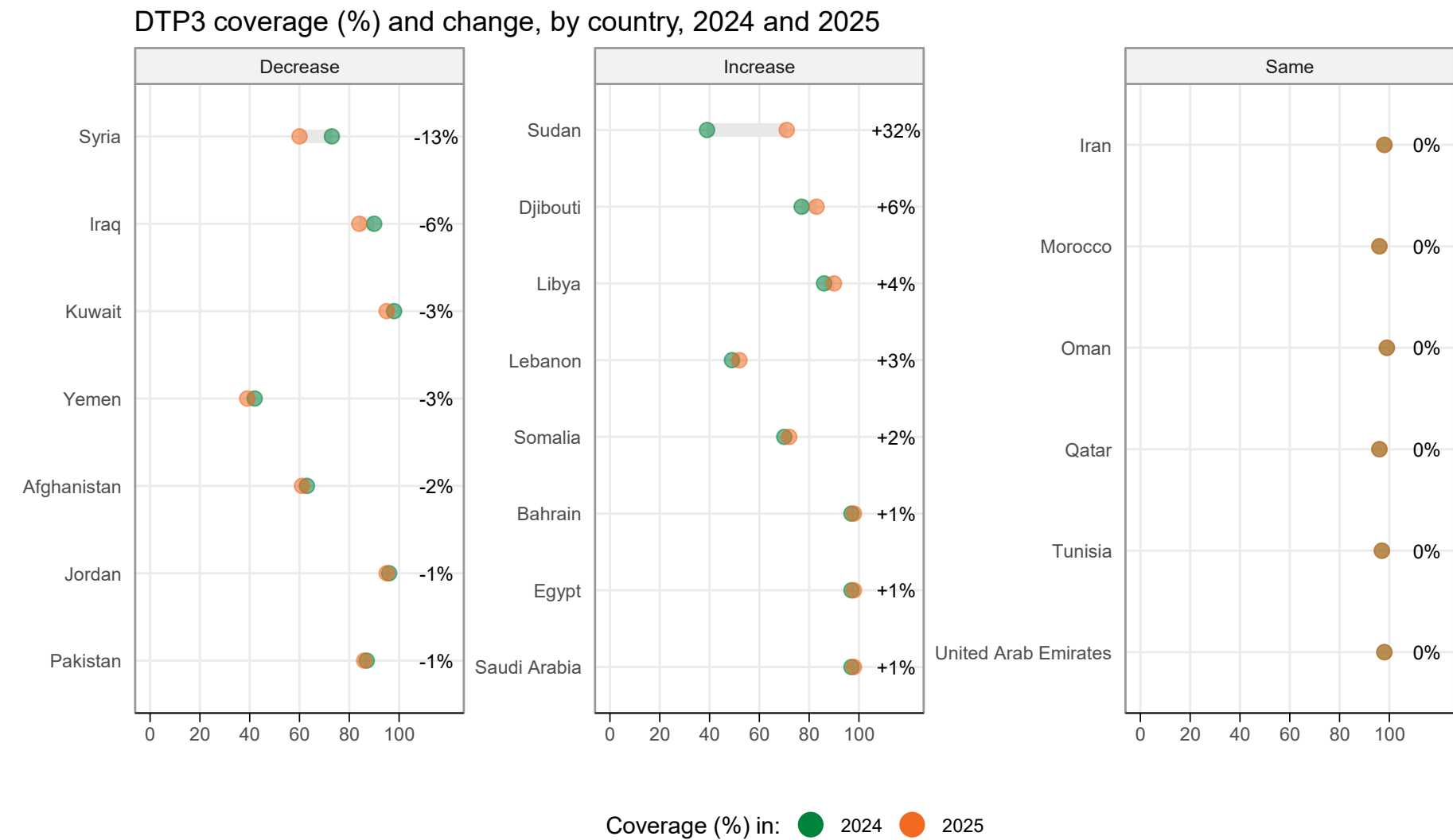


This chart shows DTP3 coverage in 2019 and 2025, and change in coverage between the two years.

Overall, 12 out of 21 (57%) countries in EMR had a decline in coverage. The largest decline was in Lebanon (-31 percentage points), followed by Sudan (-22 percentage points).

There were 7 (33%) countries with an increase in DTP3 coverage. Coverage remained the same in 2 countries between 2019 and 2025.

Between 2024 and 2025, DTP3 coverage increased in eight countries and decreased in seven countries.



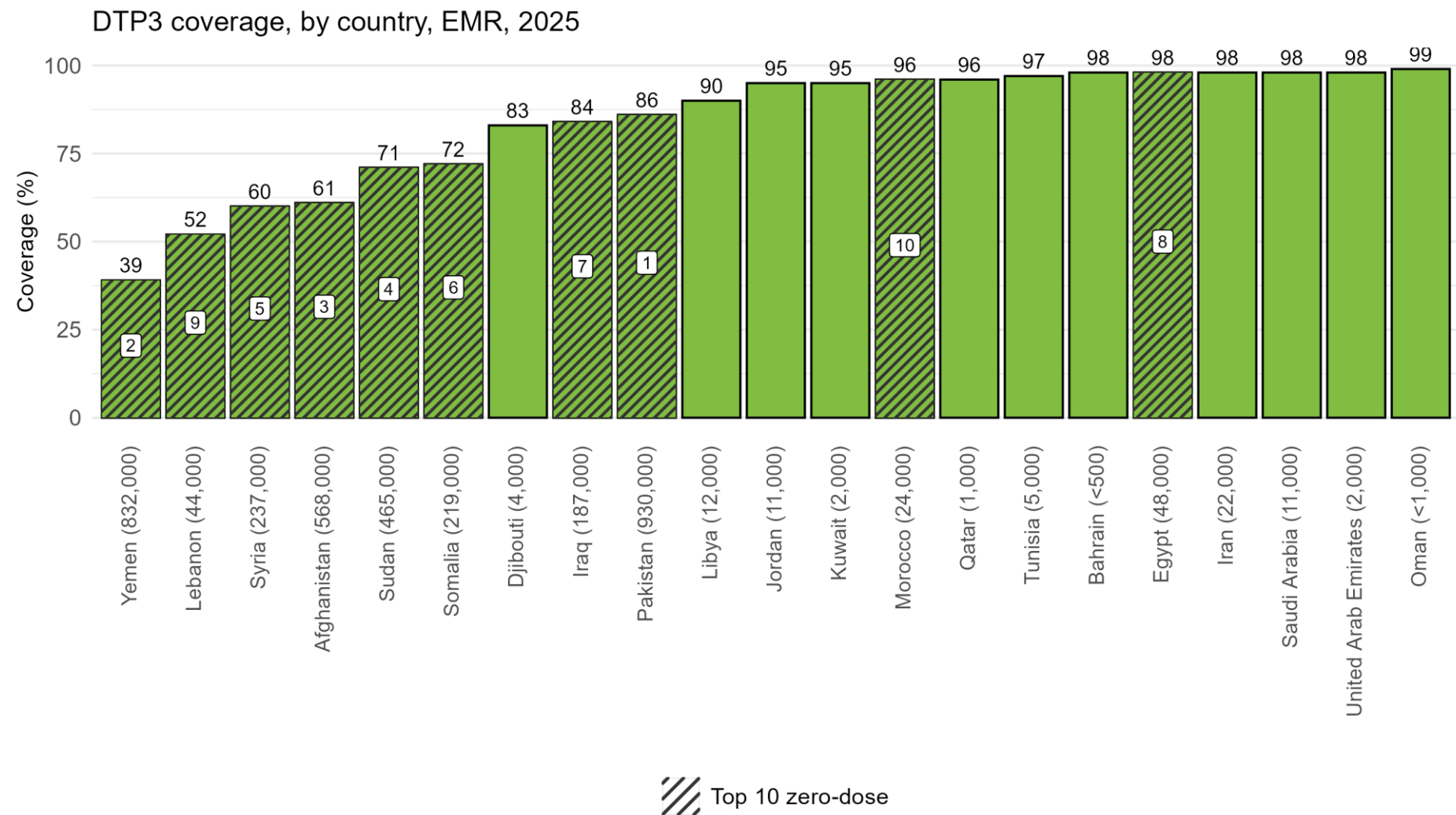
This chart shows DTP3 coverage in 2024 and 2025, and change in coverage between the two years.

Overall, 7 out of 21 (33%) countries in EMR had a decline in coverage. The largest decline was in Syria (-13 percentage points), followed by Iraq (-6 percentage points).

There were 8 (38%) countries with an increase in DTP3 coverage. Coverage remained the same in 6 countries between 2024 and 2025.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Change in coverage between 2024 and 2025 indicated to the right.

In 2025, Yemen and Lebanon had the lowest DTP3 coverage and were also among the countries with the highest number of un- and undervaccinated children.



This chart shows DTP3 coverage in countries in EMR from lowest to highest coverage, and the rank of the top 10 countries with the most un- and undervaccinated children, based on absolute numbers.

In 2025, DTP3 coverage ranged from 39% in Yemen to 99% in Oman.

12 out of 21 (57%) countries had coverage of at least 90%.

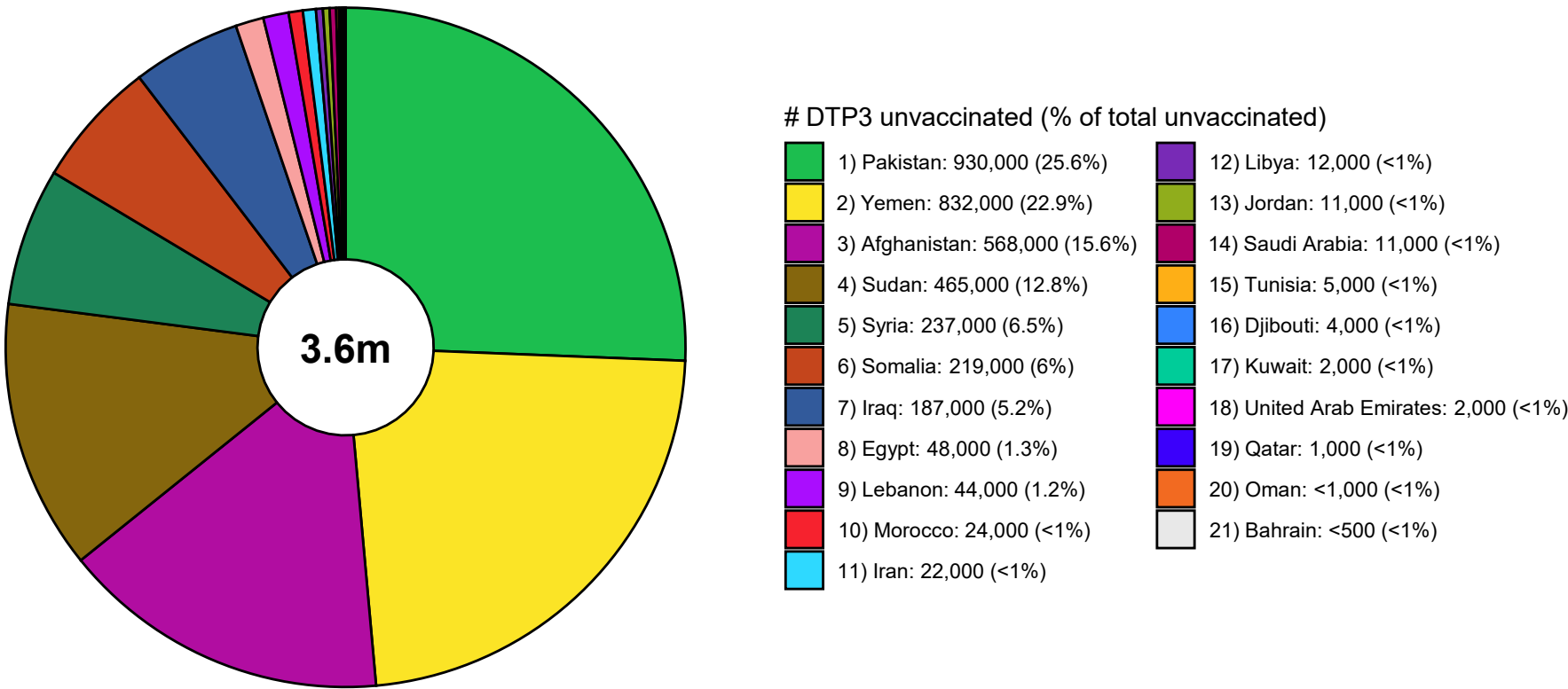
Pakistan had DTP3 coverage of 86% and the highest absolute number of un- and undervaccinated children in the region, followed by Yemen.

Large cohort countries may have high numbers of un- and undervaccinated children despite high vaccine coverage. It is advantageous to look at both coverage and absolute numbers of unvaccinated children to ensure vulnerable countries with small birth cohorts are not missed.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Bars are ranked by ascending coverage.
Numbers in bubbles display top 10 rank based on absolute number of un- and undervaccinated children. Number in parentheses shows number of un- and undervaccinated children.

In 2025, 3 countries accounted for over half of all un- and under-vaccinated children in EMR, with Pakistan contributing the highest share.

DTP3 unvaccinated (% of total unvaccinated)



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Number in legend corresponds to region ranking based on highest to lowest absolute number of unvaccinated children and reflects order of pie slices.

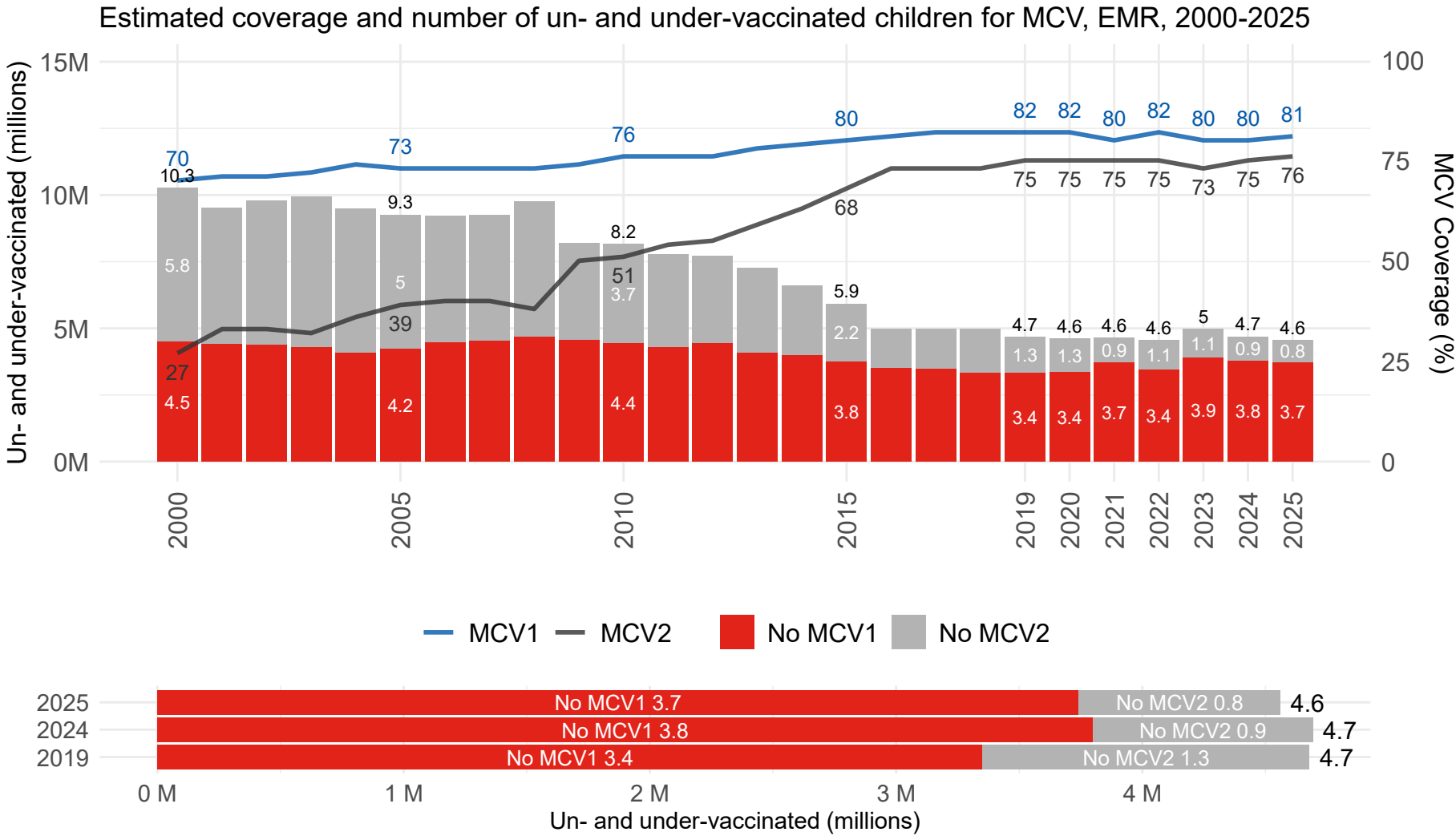
In 2025, 3 countries accounted for over half (64.1%) of all un- and under-vaccinated children in EMR.

Pakistan had the highest number of children who did not receive DTP3 (n=930,000), which is approximately 25.6% of all un- and under-vaccinated children in EMR (n=3.6 million).

The number of unvaccinated children is influenced by both the birth cohort size and programme performance. As a result, countries with large birth cohorts may still have a high number of unvaccinated children, even if coverage rates are high. At the same time, countries with high coverage will also have a greater absolute number of children who are vaccinated. Please refer to the heatmaps for country-specific coverage.

MCV1

MCV1 coverage remained relatively constant 80% in 2025, leaving 3.7 million children without any protection against measles. MCV2 coverage remained relatively constant 75% in 2025.



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: There may be discrepancies due to rounding.

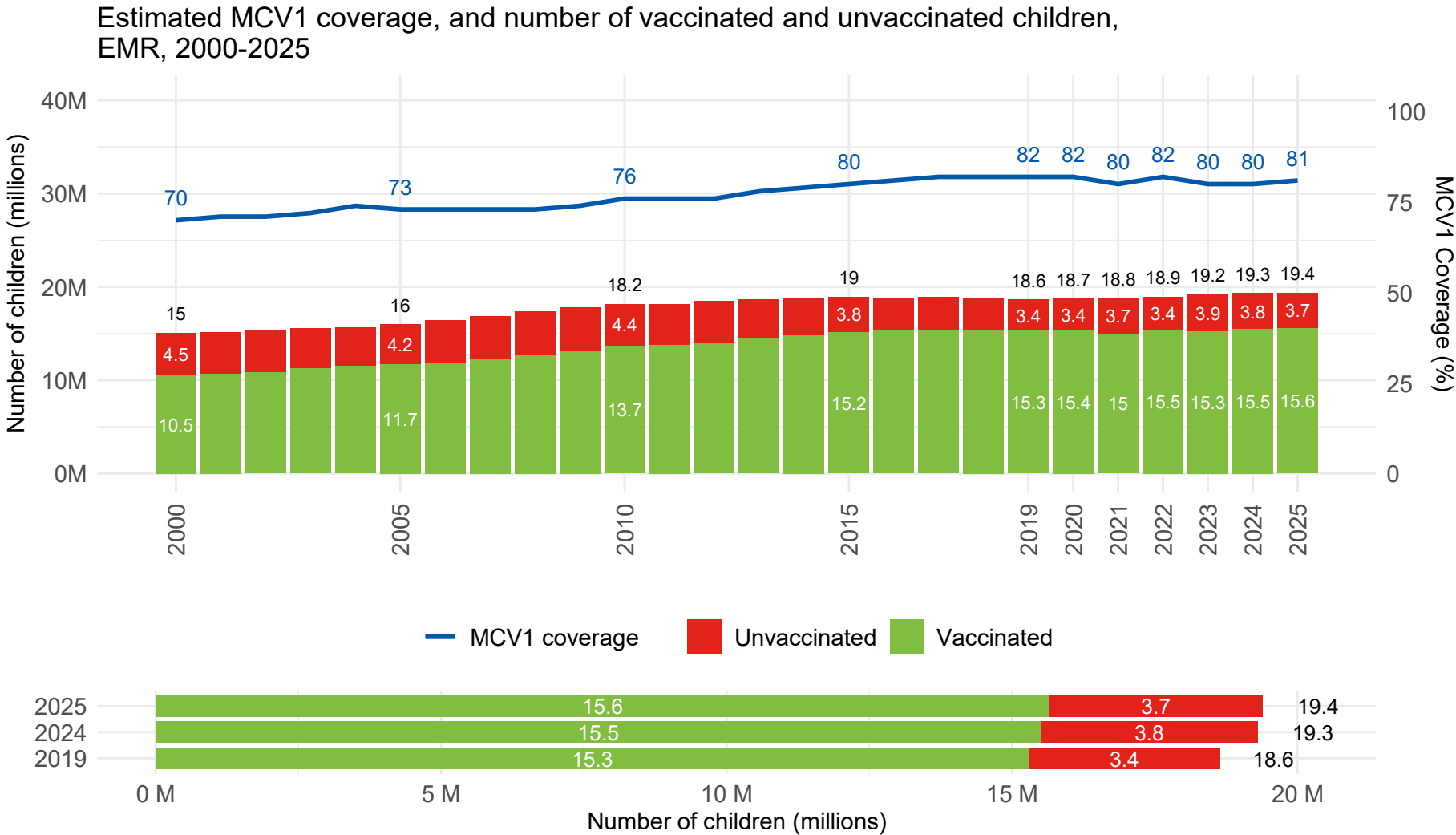
Measles, because of its high transmissibility, acts as a 'canary in the coalmine', quickly exposing any immunity gaps in the population. The coverage of measles containing vaccine (MCV) is thus often used as a tracer for protection.

The percentage of children receiving MCV1 – typically at 9 or 12 months – remained relatively constant at 81%. This is similar to in 2019, where coverage was 82%.

3.7 million children missed their routine first dose of measles vaccine.

MCV2 is typically administered to children between 18 months and five years old. MCV2 coverage remained relatively constant at 76% in 2025.

In 2025, MCV1 coverage was 81%: 15.6 million children received the measles vaccine, but 3.7 million remain unvaccinated against the highly contagious disease.



Sources: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision; United Nations, Department of Economic and Social Affairs, Population Division (2024). World Population Prospects 2024, Online Edition.

MCV1 coverage in 2025 (81%) was within 1% of coverage in 2019 (82%).

The number of children vaccinated with MCV1 increased 2% from 15.3 million in 2019 to 15.6 million in 2025.

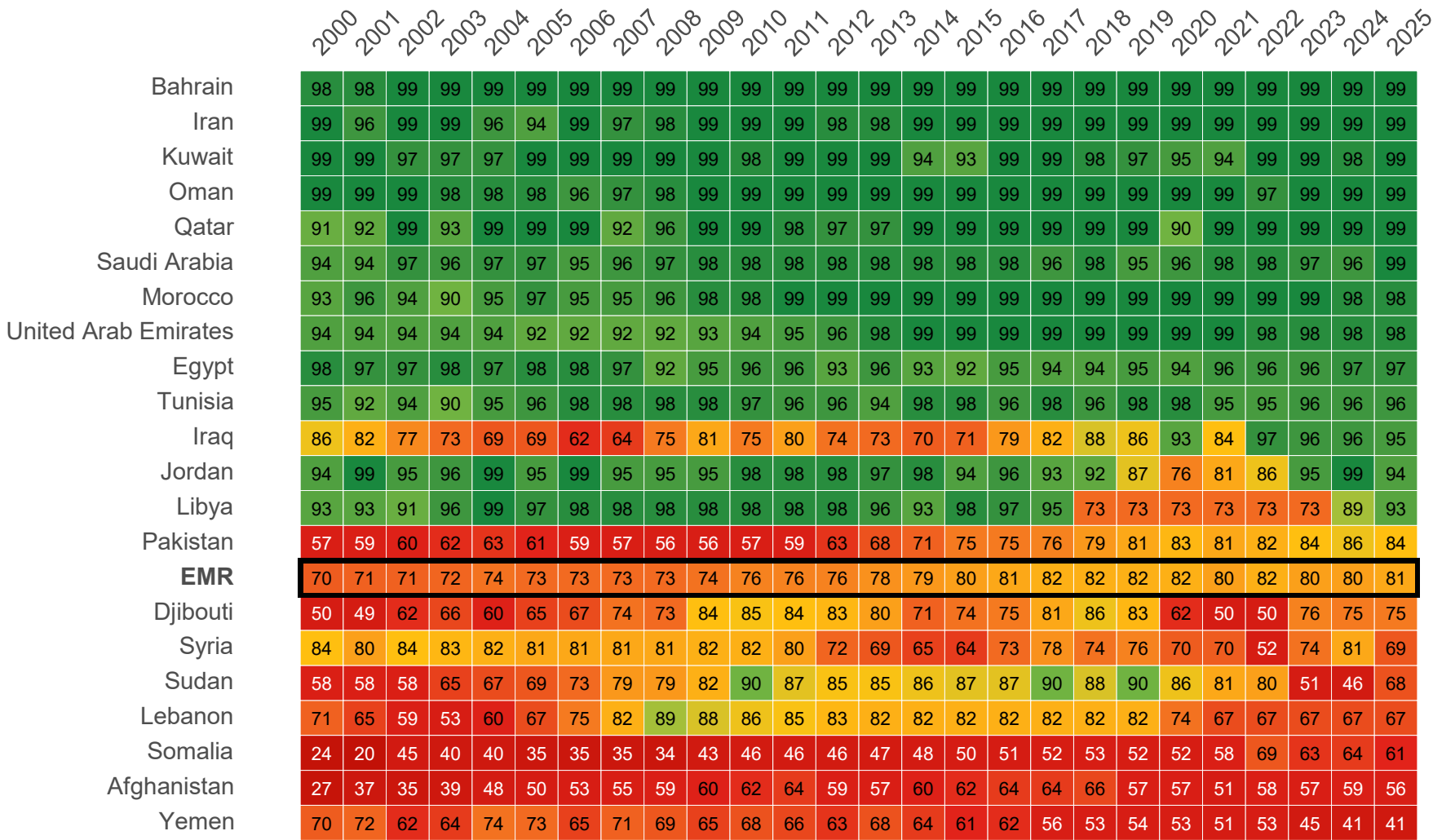
The number of surviving infants increased approximately 4% from 18.6 million in 2019 to 19.4 million in 2025.

In 2025, 356,000 more children were vaccinated than in 2019.

In 2025, there were 746,000 more surviving infants (target population) than in 2019.

For vaccine coverage to increase, the number of children vaccinated must increase at a faster rate than the population increases.

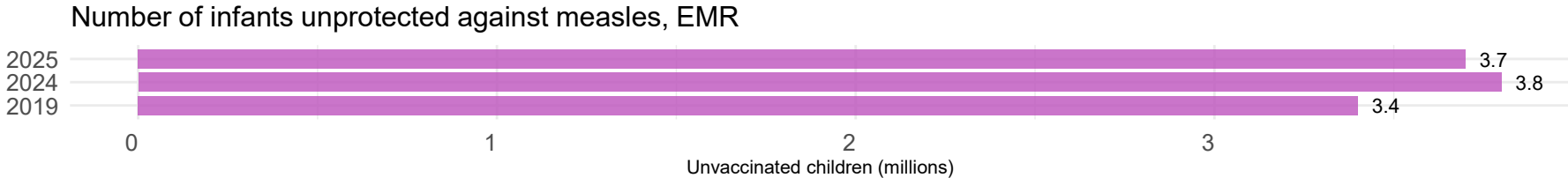
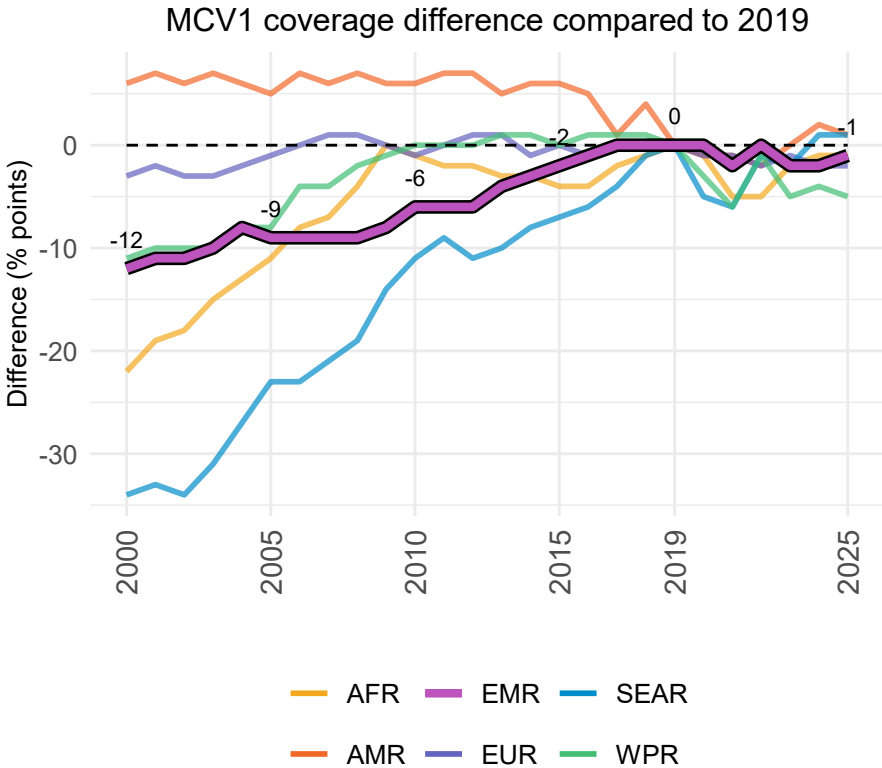
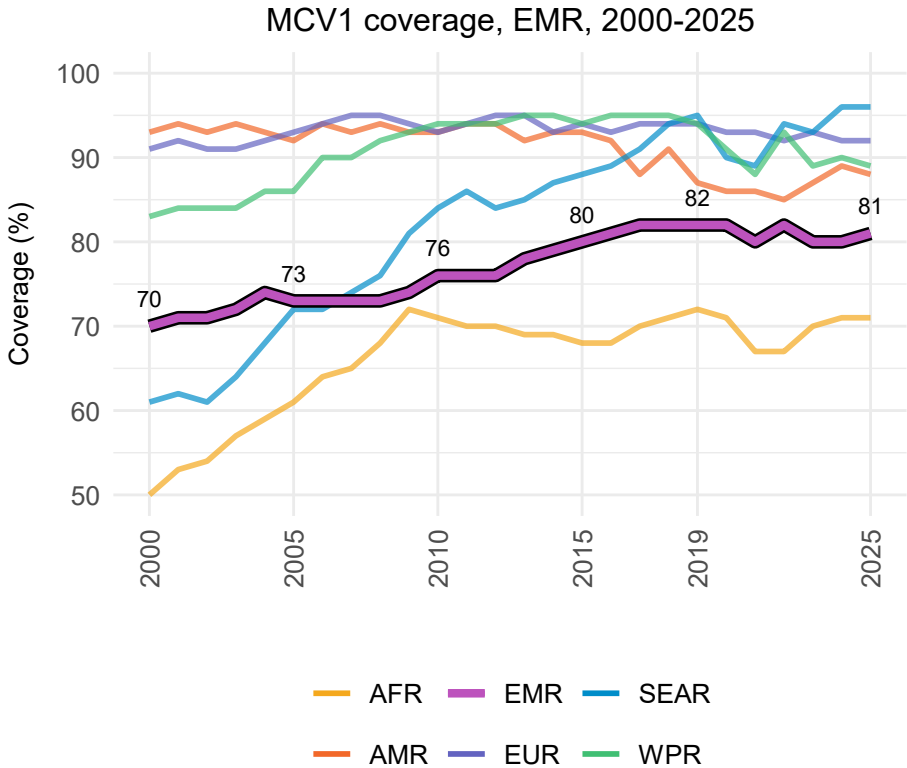
MCV1 coverage, by country, EMR, 2000-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Countries ordered based on descending coverage in 2025

This heatmap shows MCV1 coverage, by region and year. Red indicates low coverage (<60%) and green indicates high coverage (≥90%). The changing colour gradient can be used to tracked changes in coverage over time and recovery from pandemic-related disruptions where applicable.

MCV1 coverage has improved since 2000 in most regions and exceeded pre-pandemic levels in one regions, but progress is uneven and gaps in unvaccinated children persist.



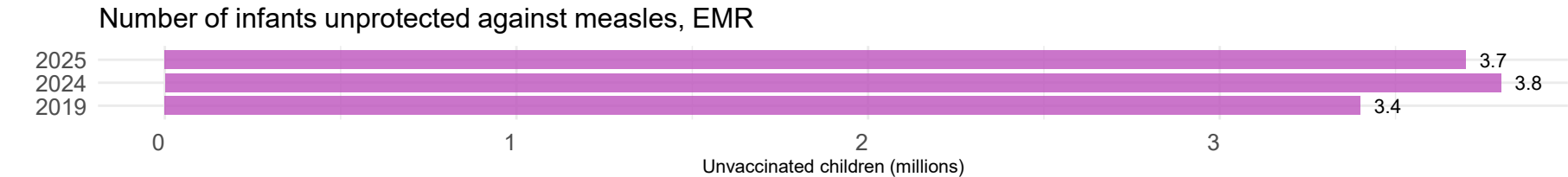
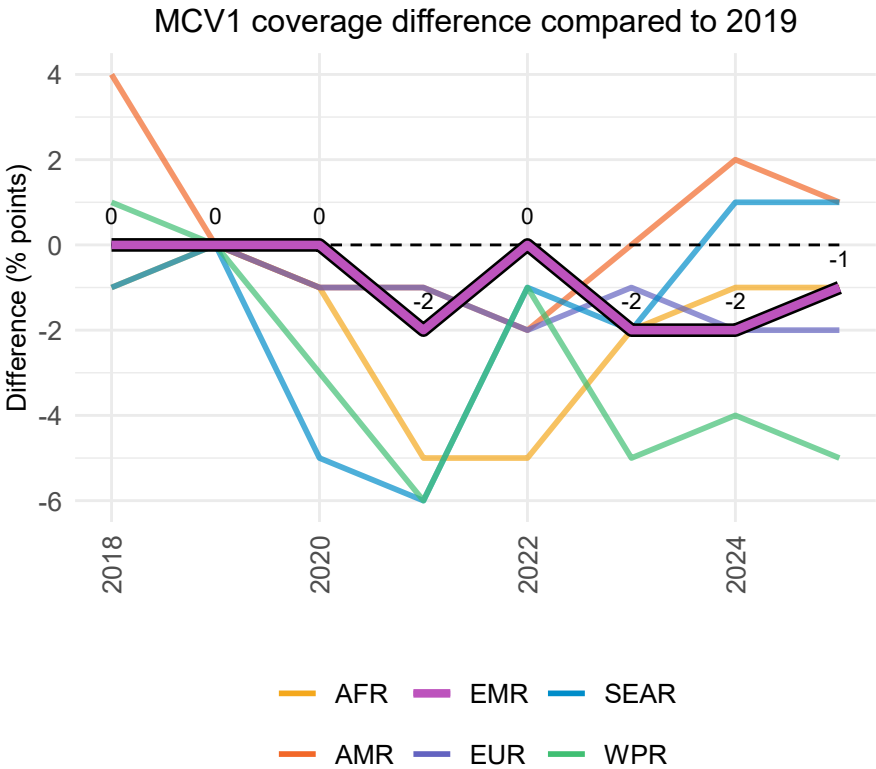
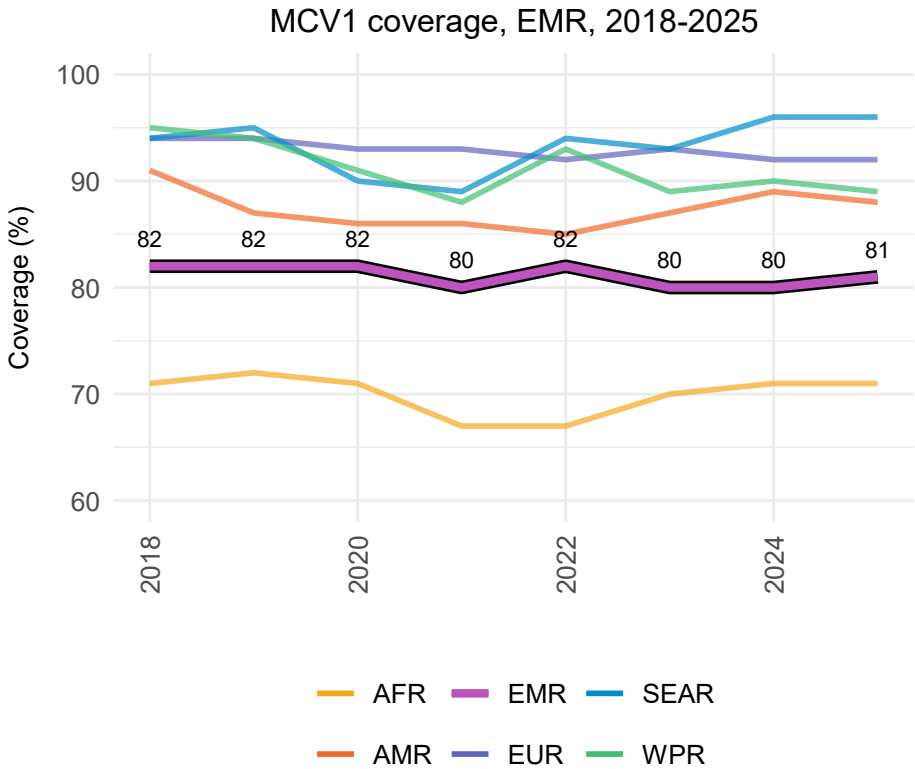
In 2025, EMR ranked number 5 out of 6 WHO regions, with MCV1 coverage of 81%.

MCV1 coverage (81%) was 1 percentage point lower than in 2019 (82%).

This equates to 3.7 million unvaccinated children in 2025 compared to 3.4 million unvaccinated children in 2019.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Coverage difference compared to 2019 - values above zero indicate coverage higher than in 2019 and values below zero indicate coverage lower than in 2019.
There may be discrepancies in total Unvaccinated children (millions) due to rounding.

MCV1 coverage improved between 2024 and 2025 in one regions and exceeded pre-pandemic levels in one regions, but progress is uneven and gaps in unvaccinated children persist.



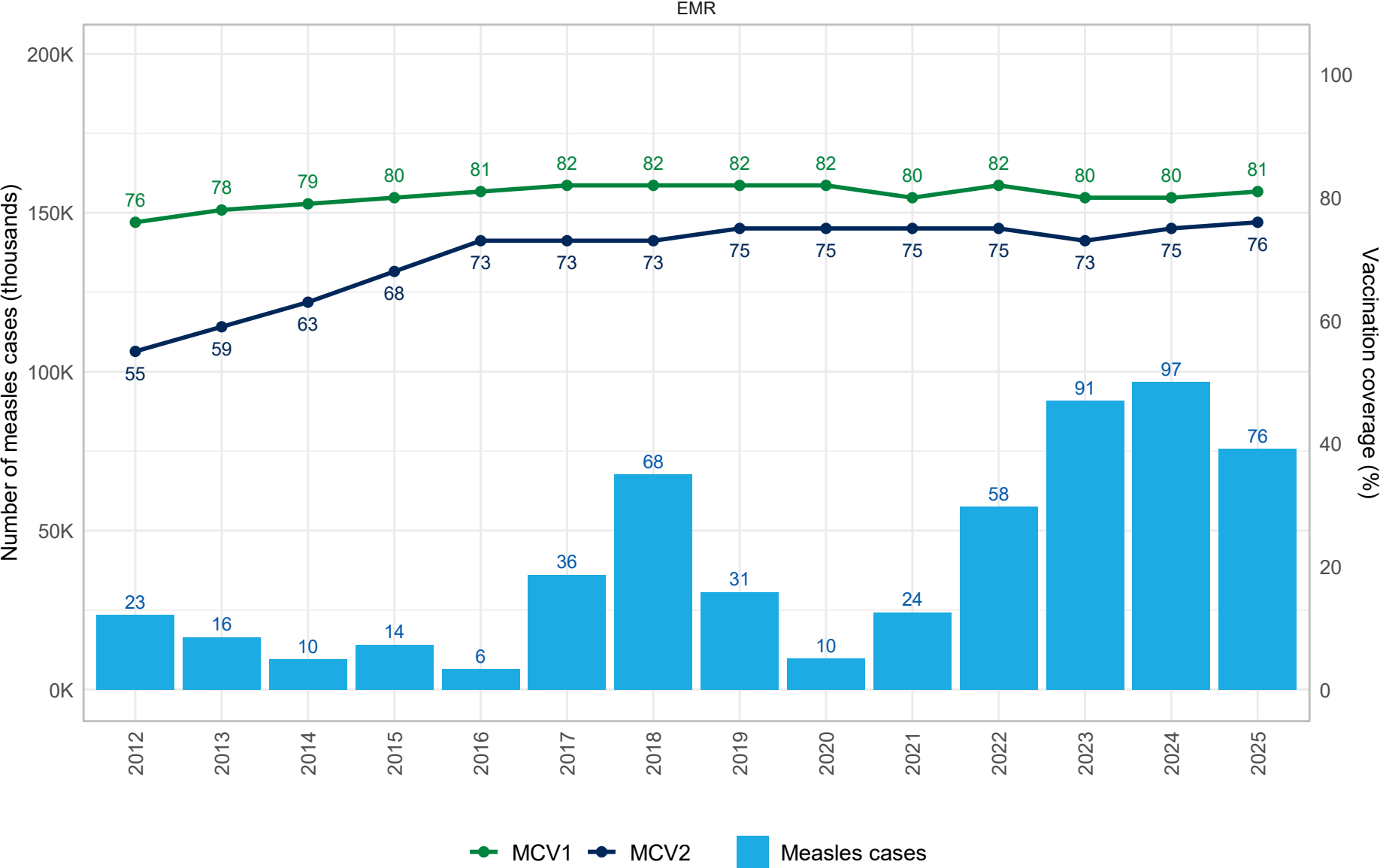
Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
 Note: Coverage difference compared to 2019 - values above zero indicate coverage higher than in 2019 and values below zero indicate coverage lower than in 2019.
 There may be discrepancies in total Unvaccinated children (millions) due to rounding.

In 2025, EMR ranked number 5 out of 6 WHO regions, with MCV1 coverage of 81%.

MCV1 coverage (81%) was 1 percentage point lower than in 2019 (82%).

This equates to 3.7 million unvaccinated children in 2025 compared to 3.4 million unvaccinated children in 2019.

Trends in the number of measles cases and MCV coverage, 2012-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision;
Reported measles and rubella cases and incidence rates by WHO Member States, as of 12 June 2026.
Provisional data based on monthly data reported to WHO (Geneva) as of 12 June 2026.

This chart shows trends in the number of measles cases and MCV coverage (EMR).

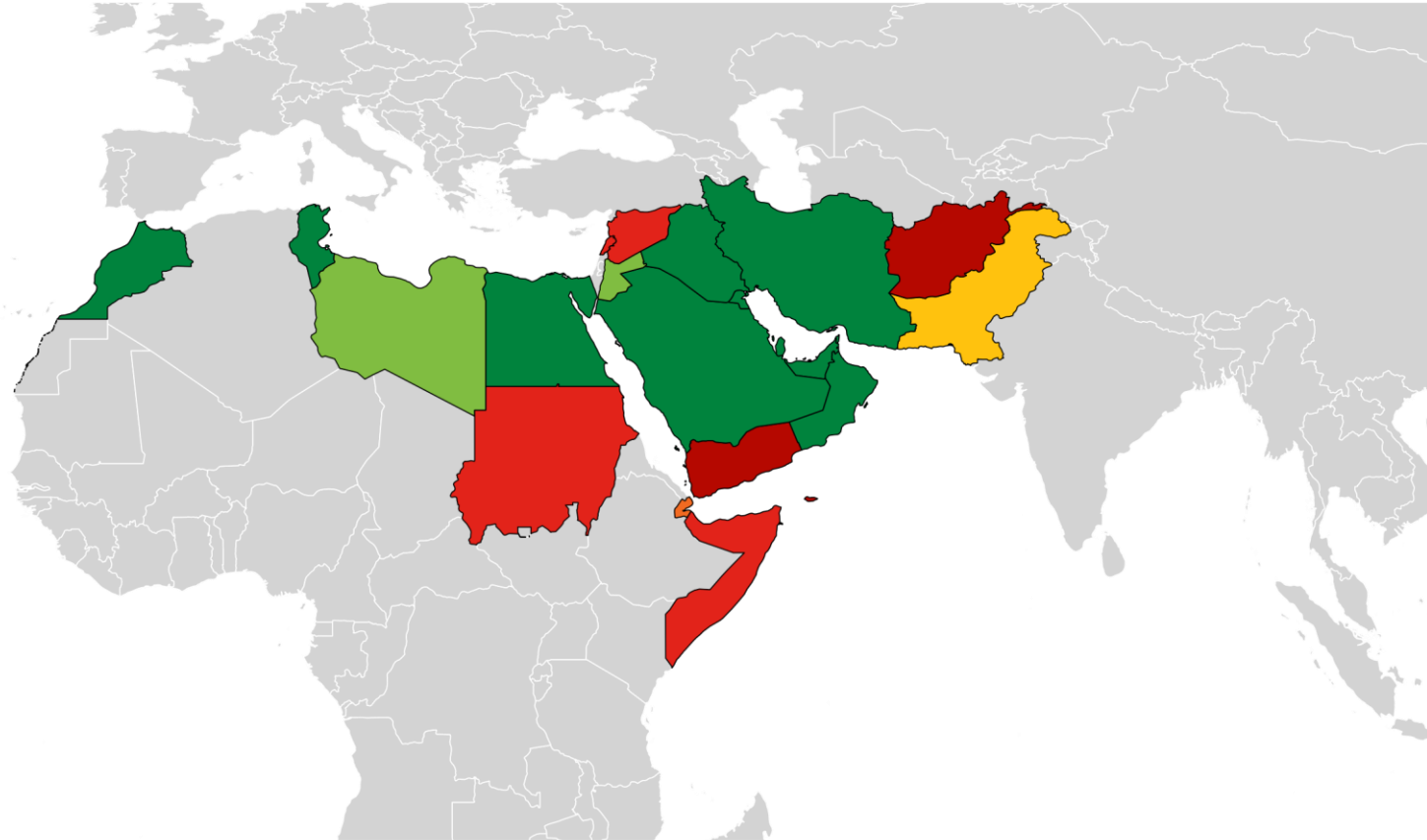
In 2025, there were 75,772 confirmed measles cases - a decrease from 96,713 in 2024.

Measles cases were reported in 20 countries (Afghanistan, Bahrain, Djibouti, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Pakistan, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, United Arab Emirates, and Yemen). Yemen reported the highest number of cases (n=32,448), accounting for 43% of total cases in the region.

Very high vaccination coverage is necessary to interrupt measles transmission due to the virus's high transmissibility. The WHO recommends a minimum of 95% coverage with two doses of MCV through routine immunization services.

In 2025, 13 countries achieved at least 90% MCV1 coverage, while 6 had coverage below 70%.

MCV1 Coverage (%), EMR, 2025



MCV1 coverage (%)  <60  60-69  70-79  80-89  90-94  >=95

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: This map is stylized and based on an approximate scale. This map does not reflect a position by UNICEF or WHO on the legal status of any country or territory or the delimitation of any frontiers.

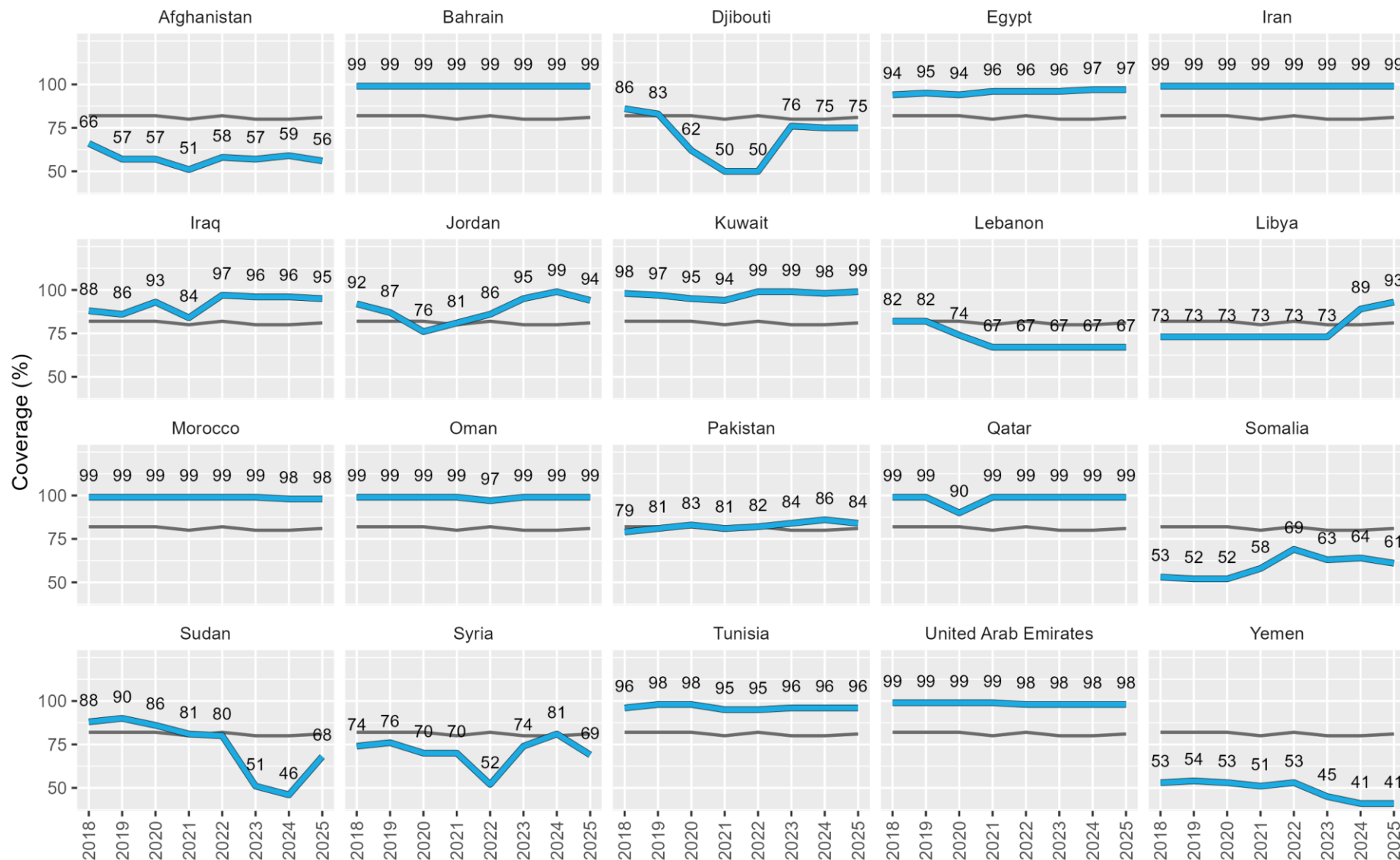
In EMR, 6 out of 21 (29%) countries had MCV1 coverage below 70% in 2025. These are Afghanistan, Lebanon, Somalia, Sudan, Syria, and Yemen.

These countries account for approximately 5.9 million (31%) of the total annual cohort of surviving infants in the region.

There were 13 (62%) countries that achieved MCV1 of 90% or higher, accounting for 6.7 million (35%) of the total cohort.

Coverage of MCV1, by country, EMR, 2018-2025

Showing top 20 countries with the lowest coverage in 2025



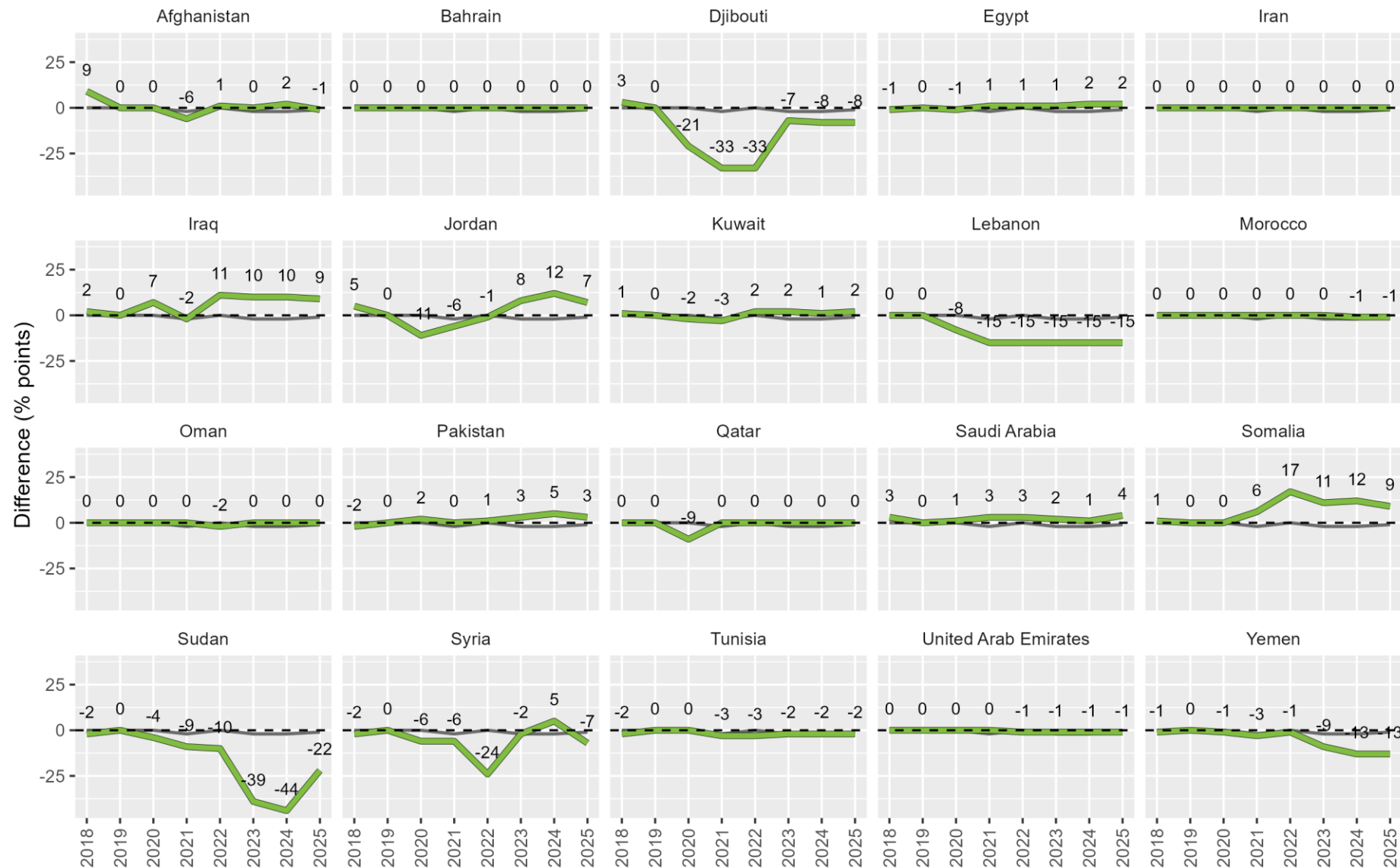
Among the 20 countries with the lowest MCV1 coverage in 2025, Bahrain, Iran, Kuwait, Oman, and Qatar had the highest coverage (99%), while Yemen had the lowest coverage (41%).

MCV1 coverage increased in 3 out of these 20 countries between 2024 and 2025. The largest increase was 22 percentage points in Sudan from 46% to 68%.

6 countries saw a decrease in coverage (Afghanistan, Iraq, Jordan, Pakistan, Somalia, and Syria). The largest decline was 12% points in Syria from 81% to 69%. Coverage remained constant between 2024 and 2025 in the remaining 11 countries.

In 2025, 12 out of these 20 countries had achieved MCV1 coverage of at least 90%.

MCV1 coverage difference compared to 2019, by country, EMR, 2018-2025

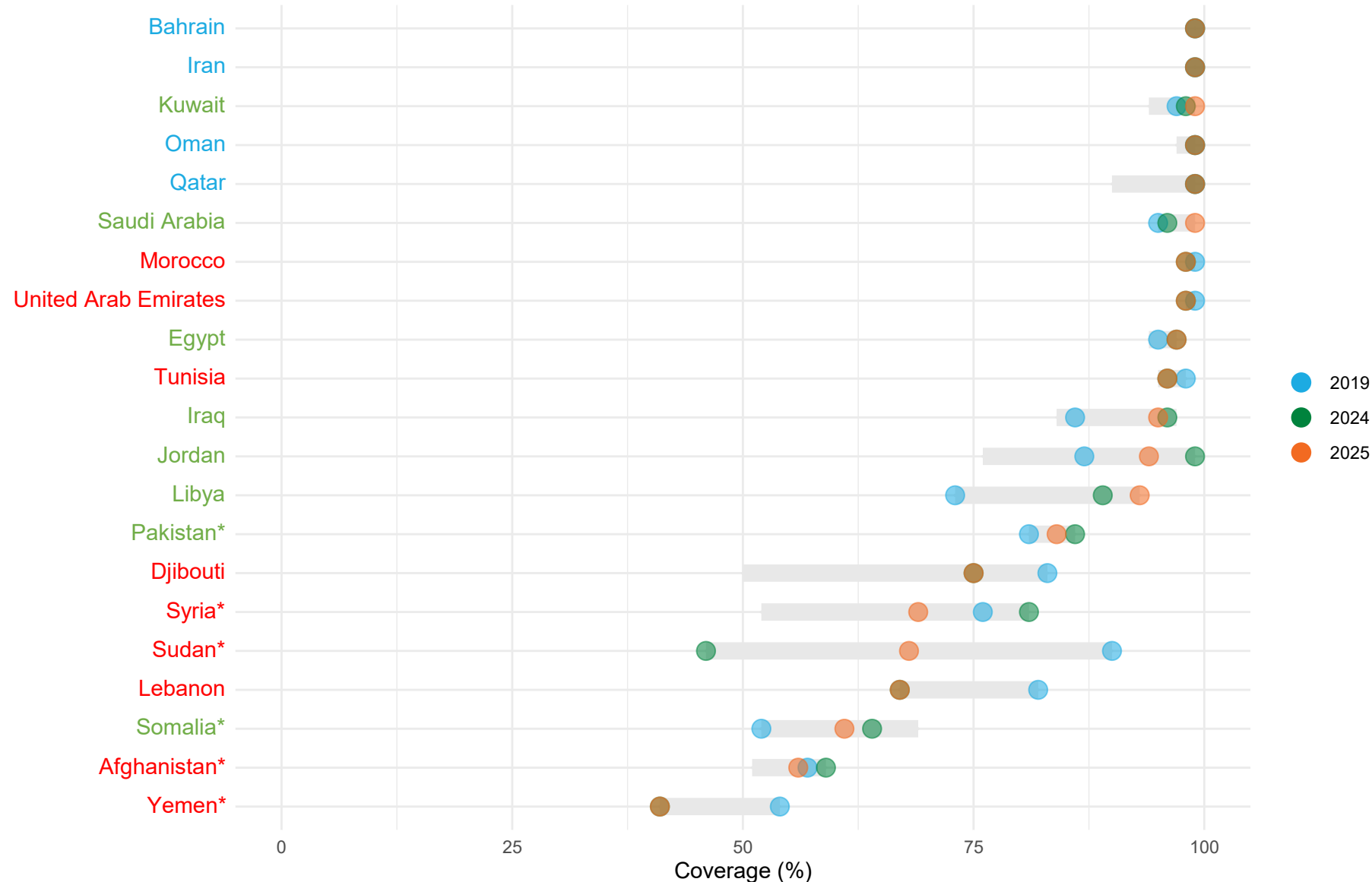


This chart shows the difference in MCV1 coverage compared to 2019, for the 20 countries with the largest declines in coverage between 2019 and 2025. Among the 20 countries with the largest declines in MCV1 coverage between 2019 and 2025, Coverage was higher in 2025 compared to 2019 in 7 of these 20 countries (Egypt, Iraq, Jordan, Kuwait, Pakistan, Saudi Arabia, and Somalia). The largest increase in coverage was 9% points in Iraq from 86% in 2019 to 95% in 2025 and Somalia from 52% in 2019 to 61% in 2025. Coverage was lower than in 2019 in 9 of these 20 countries (Afghanistan, Djibouti, Lebanon, Morocco, Sudan, Syria, Tunisia, United Arab Emirates, and Yemen). The largest decline in coverage was 22% points in Sudan from 90% in 2019 to 68% in 2025. Coverage was unchanged in 4 of these 20 countries (Bahrain, Iran, Oman, and Qatar).

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: Dark grey line displays regional coverage difference for reference compared to 2019, values above zero indicate coverage n percentage points higher than in 2019 and values below zero indicate coverage n percentage points lower than in 2019

MCV1 coverage, by country, EMR, 2019-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Note: The grey bar spans vaccine coverage across all years 2019-2025 and the dots represent coverage in specific years. Countries are arranged by high to low coverage in 2025 and coloured based on if coverage is lower (red), the same as (blue) or higher (green) than in 2019. An asterisk (*) indicates countries aiming to catch-up children missed since 2019 through a Big Catch-up Plan, supported by financing from The Gavi Alliance.

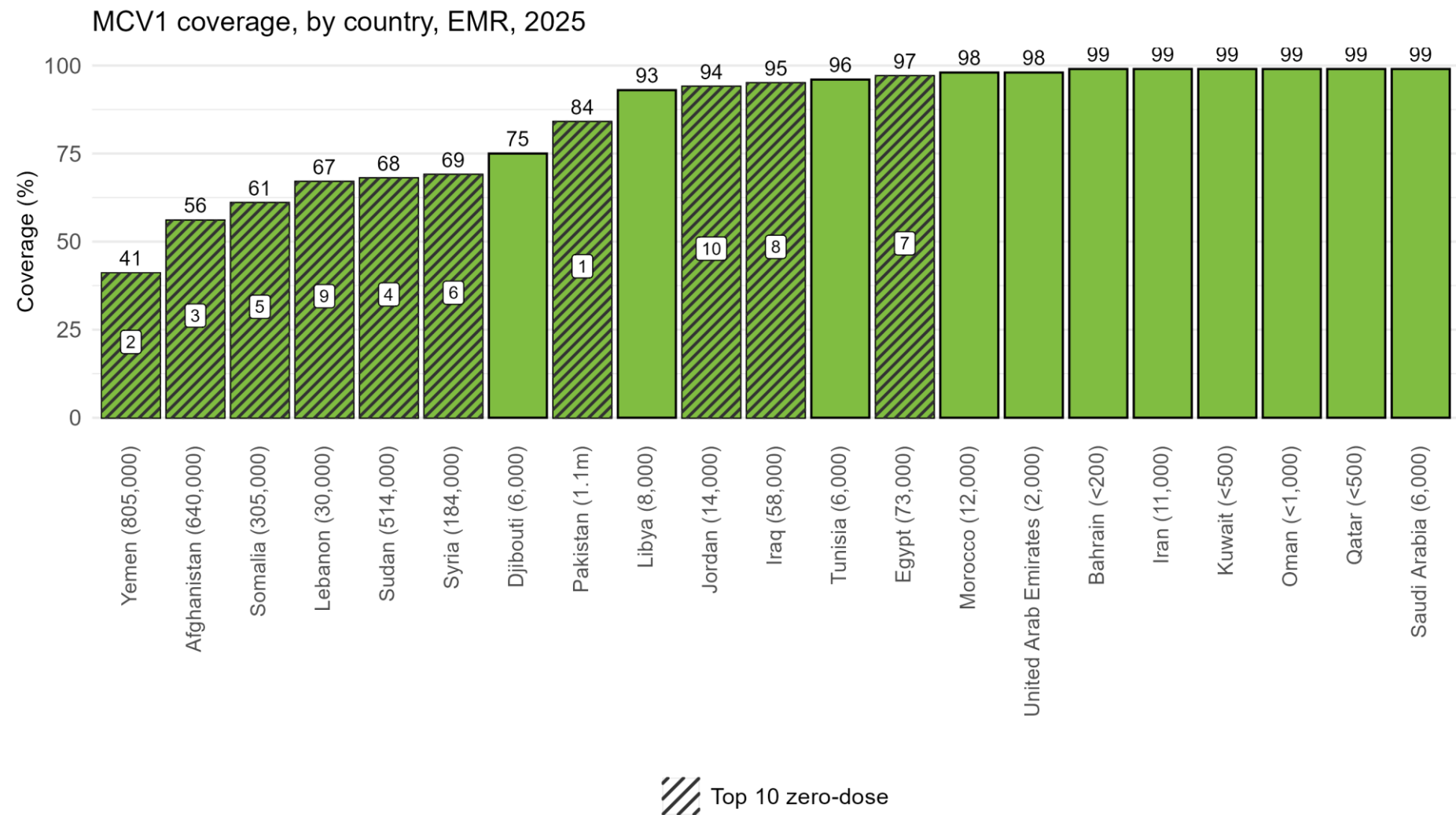
This chart shows the range of MCV1 coverage across years 2019 to 2025 (grey bars), and coverage in specific years (dots), by country. The chart can be used for assessing recovery to pre-pandemic levels and progress beyond 2019.

In 2024, 7 (out of 21) countries had lower coverage than in 2019.

In 2025, 6 countries had lower MCV1 coverage than in 2024.

In 2025, 9 countries had lower coverage than in 2019.

In 2025, Yemen and Afghanistan had the lowest MCV1 coverage and were also among the countries with the highest number of unvaccinated children.



This chart shows MCV1 coverage in countries in EMR from lowest to highest coverage, and the rank of the top 10 countries with the most unvaccinated children, based on absolute numbers.

In 2025, MCV1 coverage ranged from 41% in Yemen to 99% in Iran, Saudi Arabia, Oman, Kuwait, Qatar, and Bahrain.

13 out of 21 (62%) countries had coverage of at least 90%.

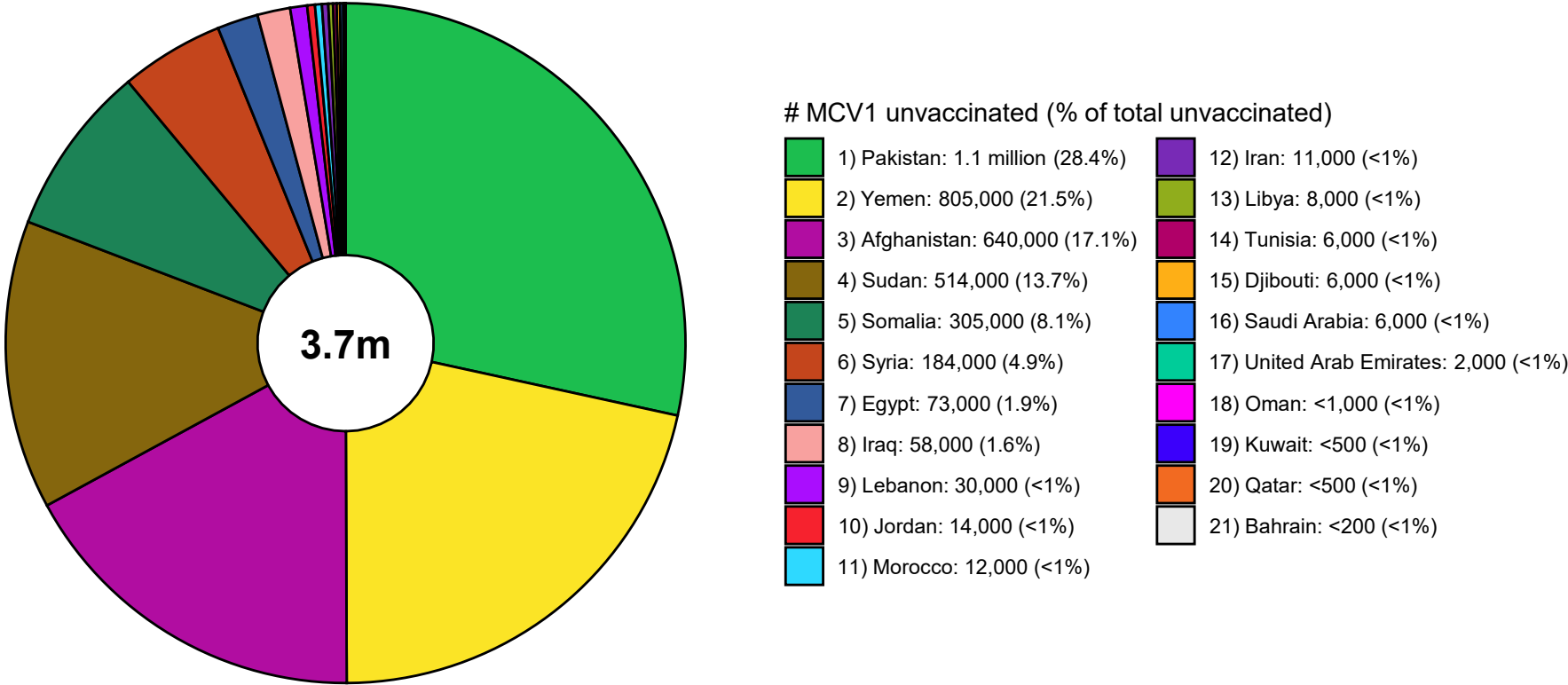
Pakistan had MCV1 coverage of 84% and the highest absolute number of unvaccinated children in the region, followed by Yemen.

Large cohort countries may have high numbers of unvaccinated children despite high vaccine coverage. It is advantageous to look at both coverage and absolute numbers of unvaccinated children to ensure vulnerable countries with small birth cohorts are not missed.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Bars are ranked by ascending coverage.
Numbers in bubbles display top 10 rank based on absolute number of unvaccinated children. Number in parentheses shows number of unvaccinated children.

In 2025, 3 countries accounted for over half of all children unprotected against measles in EMR, with Pakistan contributing the highest share.

MCV1 unvaccinated (% of total unvaccinated)



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Number in legend corresponds to region ranking based on highest to lowest absolute number of unvaccinated children and reflects order of pie slices.

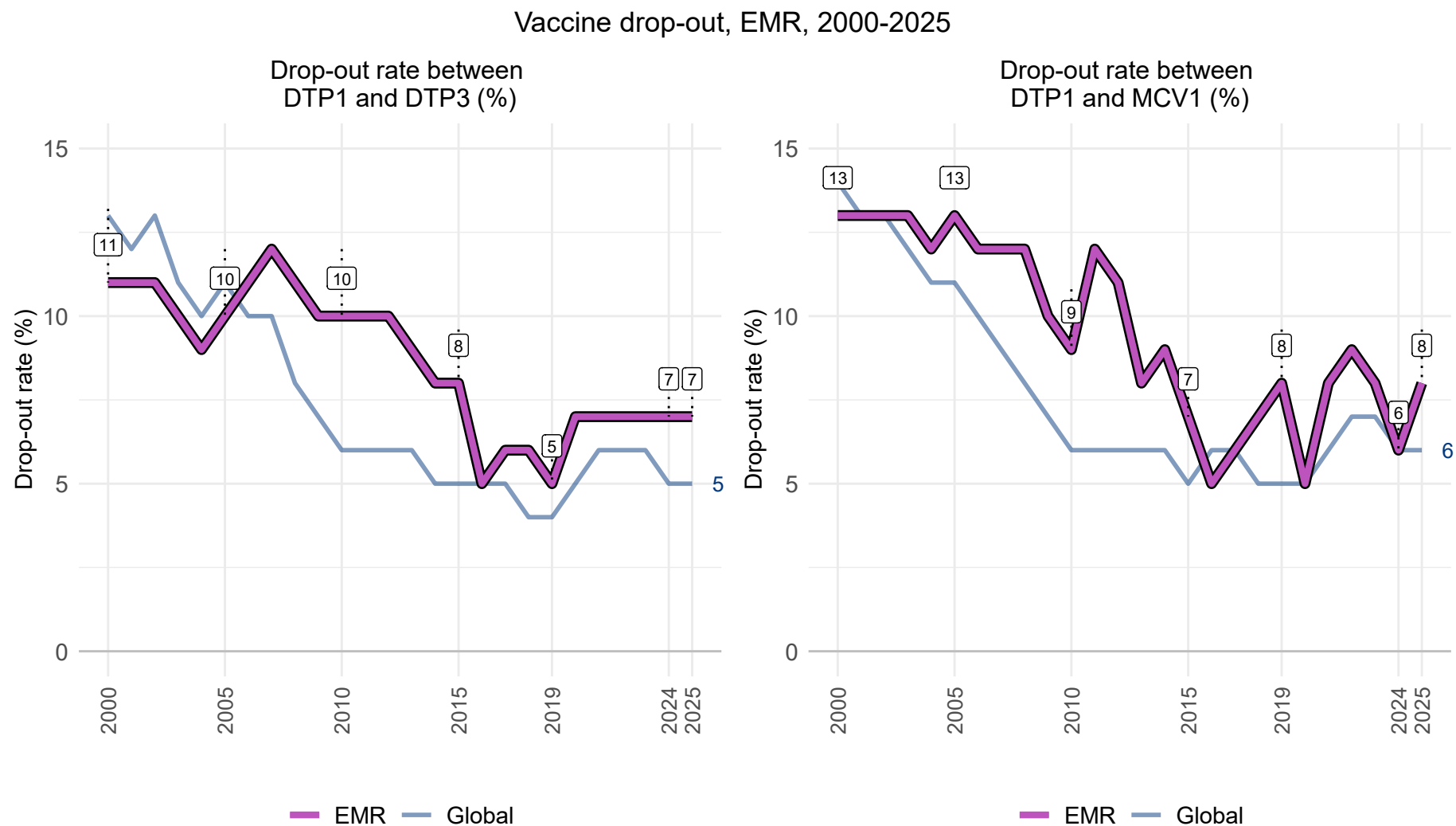
In 2025, 3 countries accounted for over half (67%) of all children unprotected against measles in EMR.

Pakistan had the highest number of children who did not receive MCV1 (n=1.1 million), which is approximately 28.4% of all children unprotected against measles in EMR (n=3.7 million).

The number of unvaccinated children is influenced by both the birth cohort size and programme performance. As a result, countries with large birth cohorts may still have a high number of unvaccinated children, even if coverage rates are high. At the same time, countries with high coverage will also have a greater absolute number of children who are vaccinated. Please refer to the heatmaps for country-specific coverage.

Childhood immunization: Additional charts

In 2025, DTP1 and DTP3/MCV1 drop-out was moderate in EMR



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Drop-out classification: <5% = low, 5-10% = medium, >10% = high

Drop-out rates show the % of children who received DTP1, but not DTP3/MCV1. Low drop-out rates indicate high retention of children in immunization programmes.

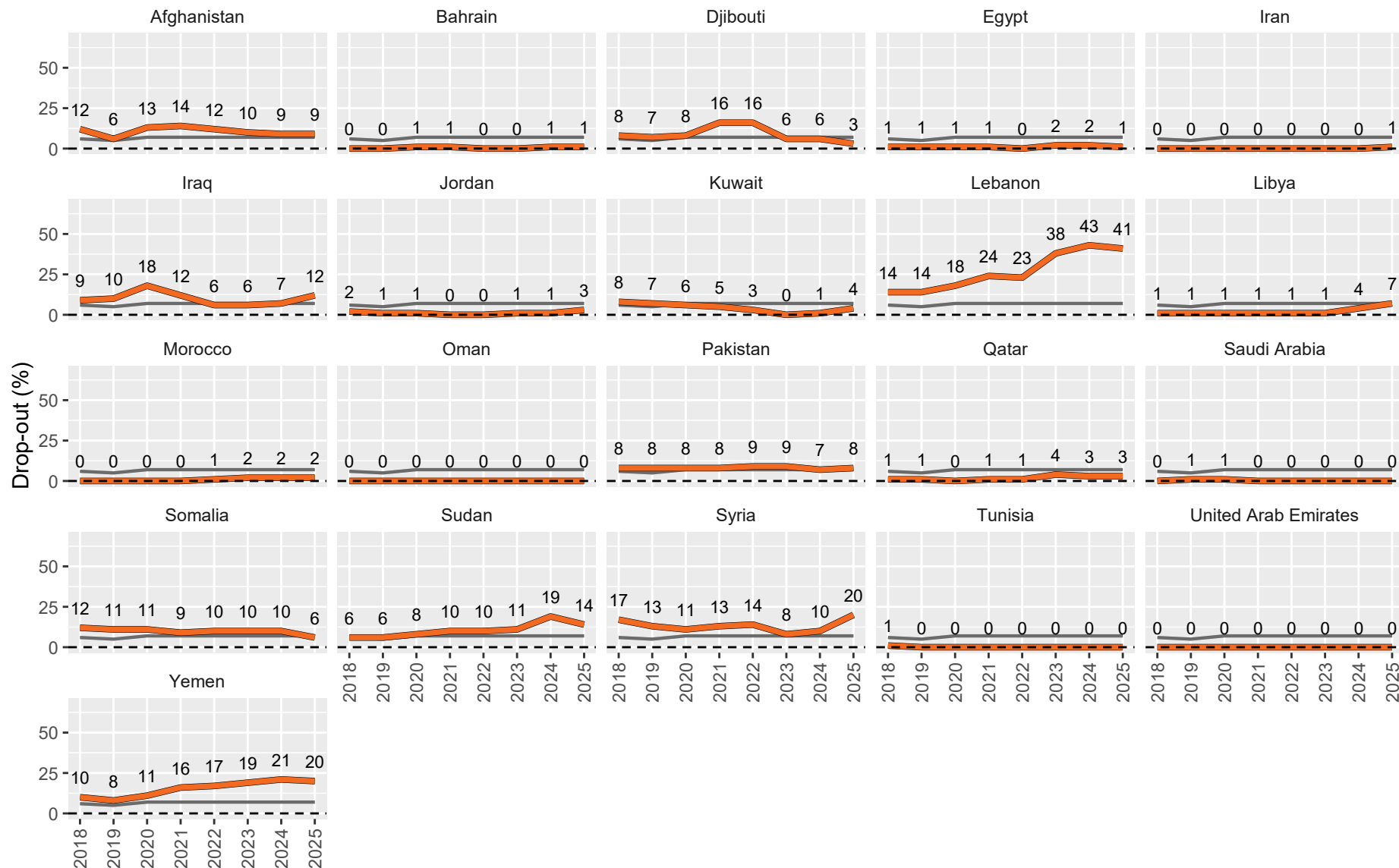
This chart shows trends in drop-out rates between DTP1 and DTP3, and DTP1 and MCV1.

In 2025, 7% of children who received DTP1 did not receive DTP3 (left), and 8% of children who received DTP1 did not receive MCV1 (right).

The medium DTP drop-out rates imply moderate ability to provide a complete series of vaccines early in life. The medium DTP-MCV drop-out rates imply moderate retention in immunization programmes and ability to provide a full course of vaccines in infancy (up to one year).

In 2025, EMR DTP drop-out was higher and DTP-MCV drop-out was higher than global drop-out rates, respectively.

Drop-out between DTP1 and DTP3 (%), by country, EMR, 2018-2025



This chart shows trends in drop-out rates between DTP1 and DTP3 by country.

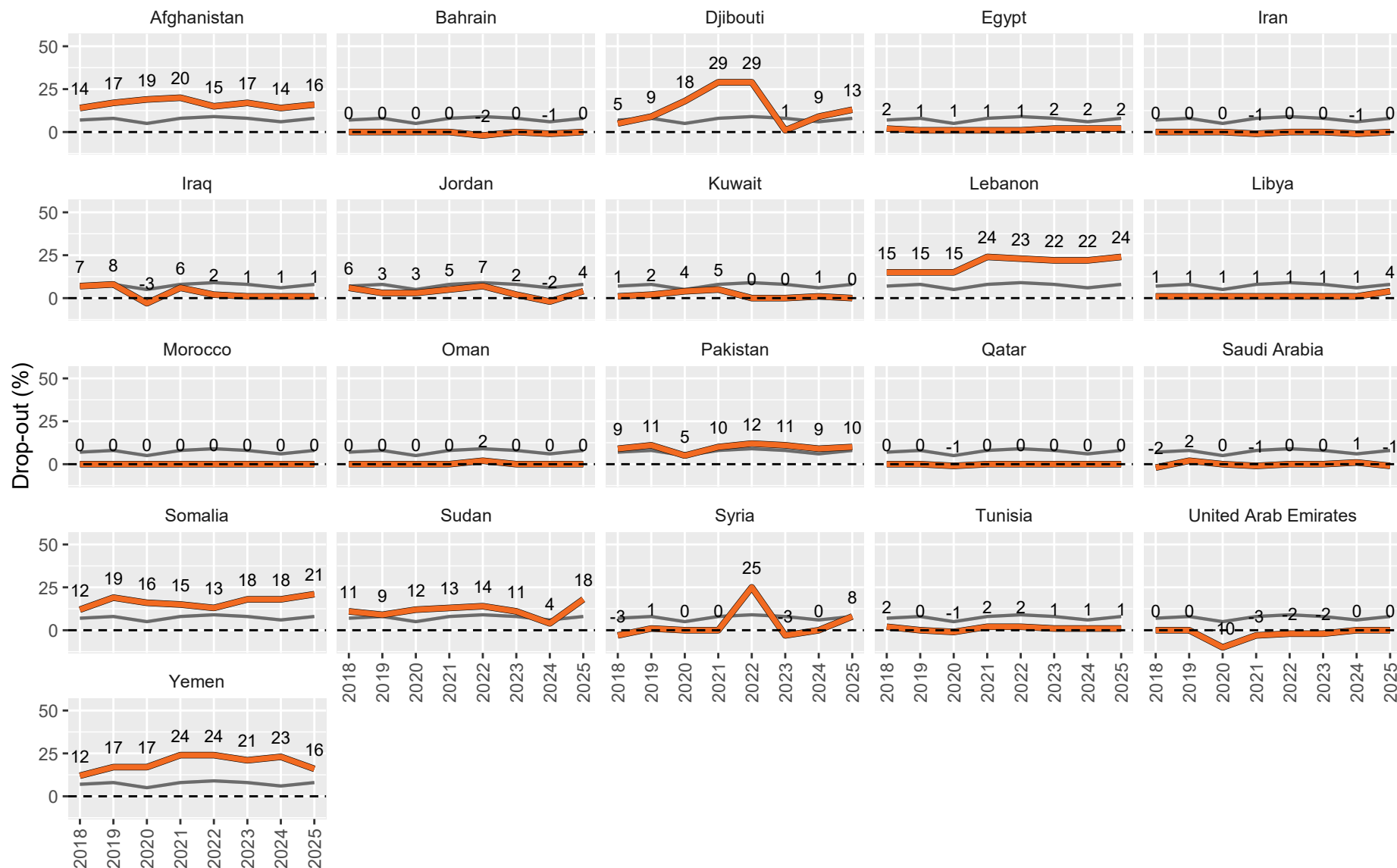
In 2025, Lebanon had the highest drop-out with 41% of children who received DTP1 not receiving DTP3.

Oman, Saudi Arabia, Tunisia, and United Arab Emirates had the lowest DTP drop-out (0%). Zero drop-out indicates that near enough all children that received DTP1 also received DTP3.

5 countries had DTP drop-out of more than 10%.

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
 Note: Dark grey line displays regional dropout for reference
 Drop-out classification: <5% = low, 5-10% = medium, >10% = high

Drop-out between DTP1 and MCV1 (%), by country, EMR, 2018-2025



This chart shows trends in drop-out rates between DTP1 and MCV1 by country.

In 2025, Lebanon had the highest drop-out with 24% of children who received DTP1 not receiving MCV1.

Bahrain, Iran, Kuwait, Morocco, Oman, Qatar, and United Arab Emirates had the lowest DTP-MCV drop-out (0%).

6 countries had DTP-MCV drop-out of more than 10%.#n

There were 1 countries with negative DTP-MCV dropout (ie. more children received MCV1 than DTP1).

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

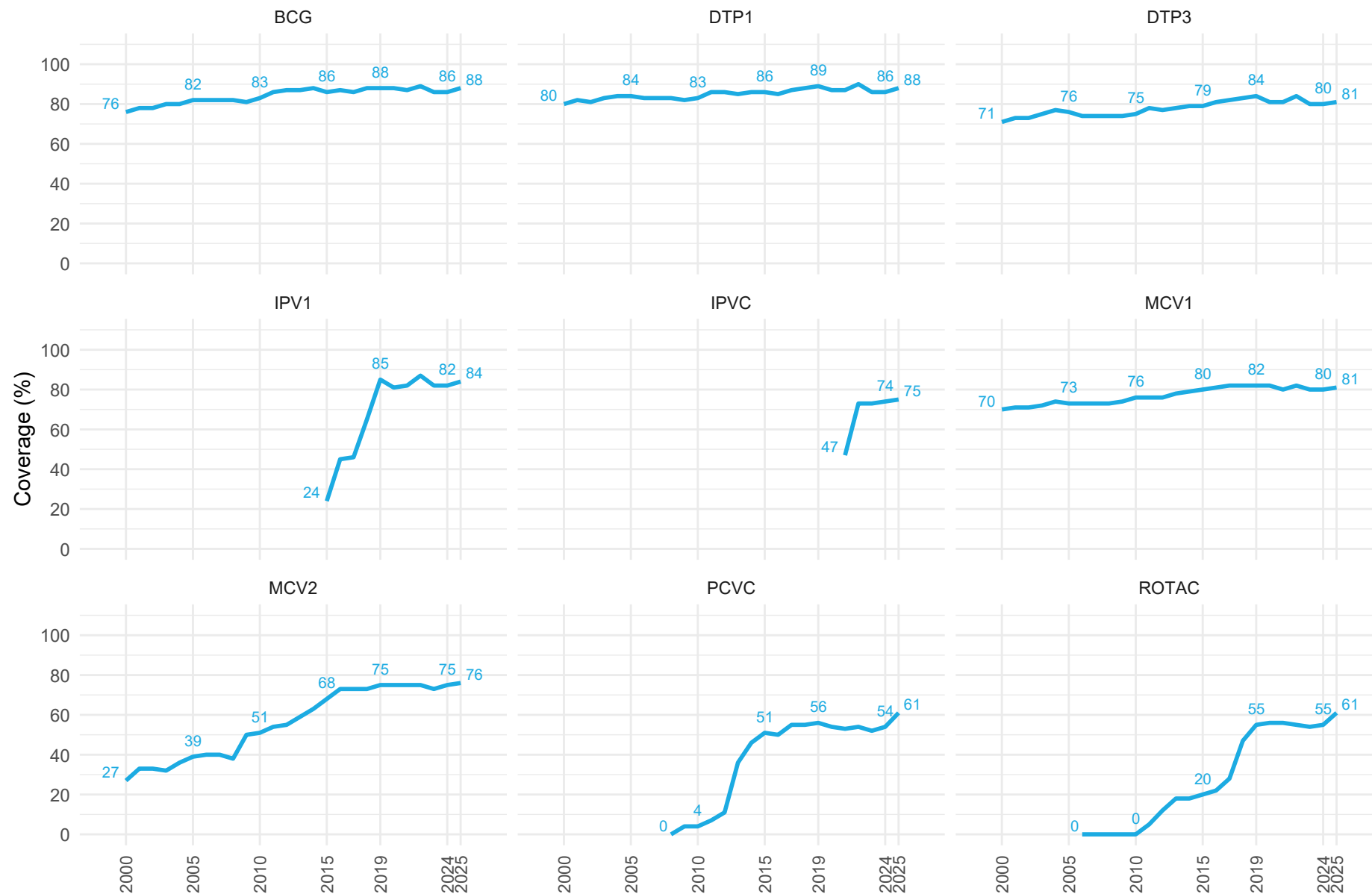
Note: Dark grey line displays regional dropout for reference

Drop-out classification: <5% = low, 5-10% = medium, >10% = high



WUENIC 2025 revision

Coverage of selected routine vaccines, EMR, 2000-2025



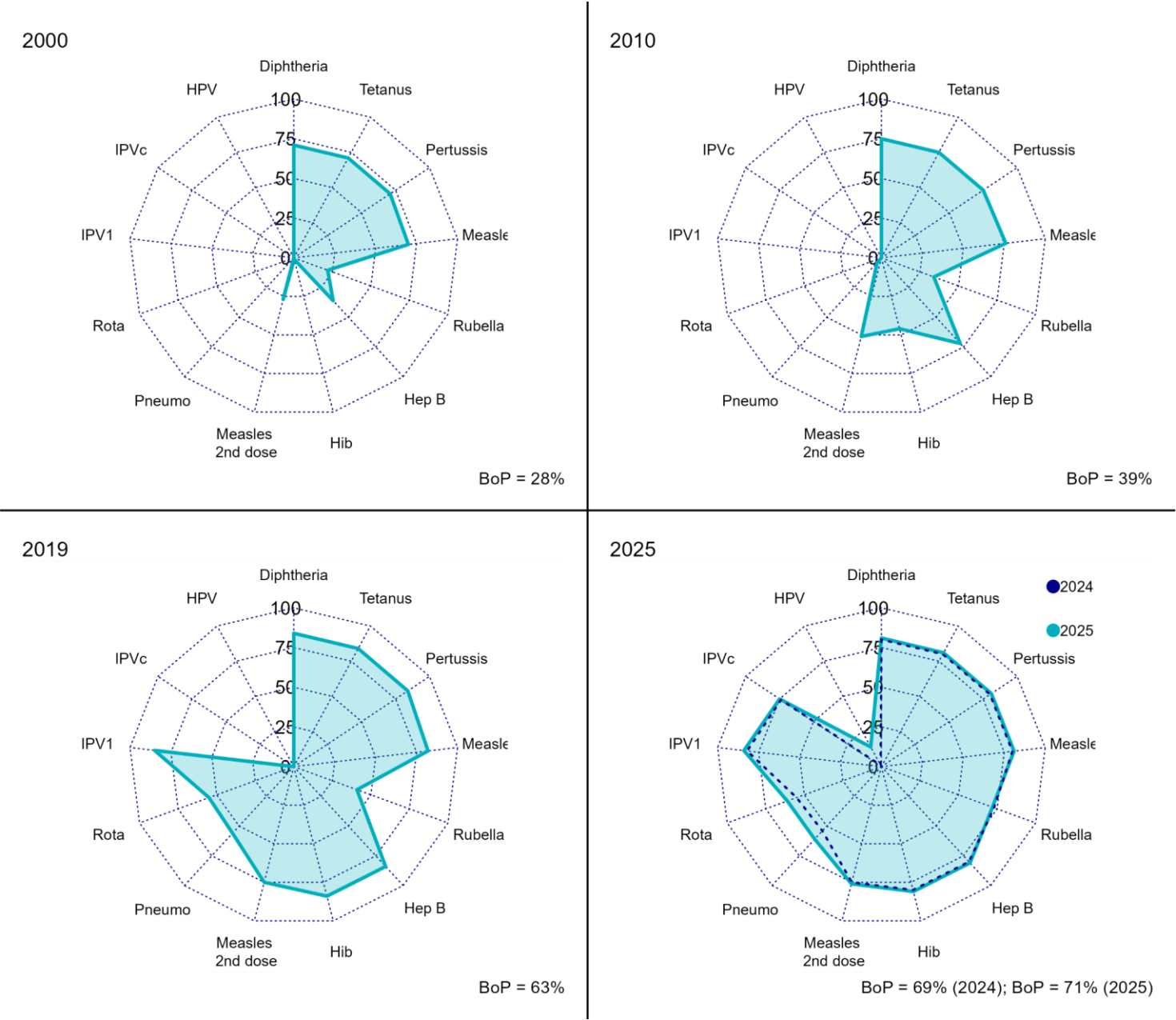
This chart shows coverage trends for 9 core routine vaccines recommended in childhood.

The steep increasing trends in coverage of IPV, MCV2, PCVC and RotaC is in-part related to increasing introduction in countries, along with improved coverage.

In 2025, PCVC and ROTAC had the lowest coverage of all vaccines (61%), followed by IPV2 (75%).

Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

Breadth of Protection, EMR, 2000-2025



Breadth of protection (BOP) is a combination of the number of vaccines in a country's national immunization programme and the coverage achieved for each vaccine.

The radar chart displays the BOP (shaded area) and vaccine coverage (points), by year.

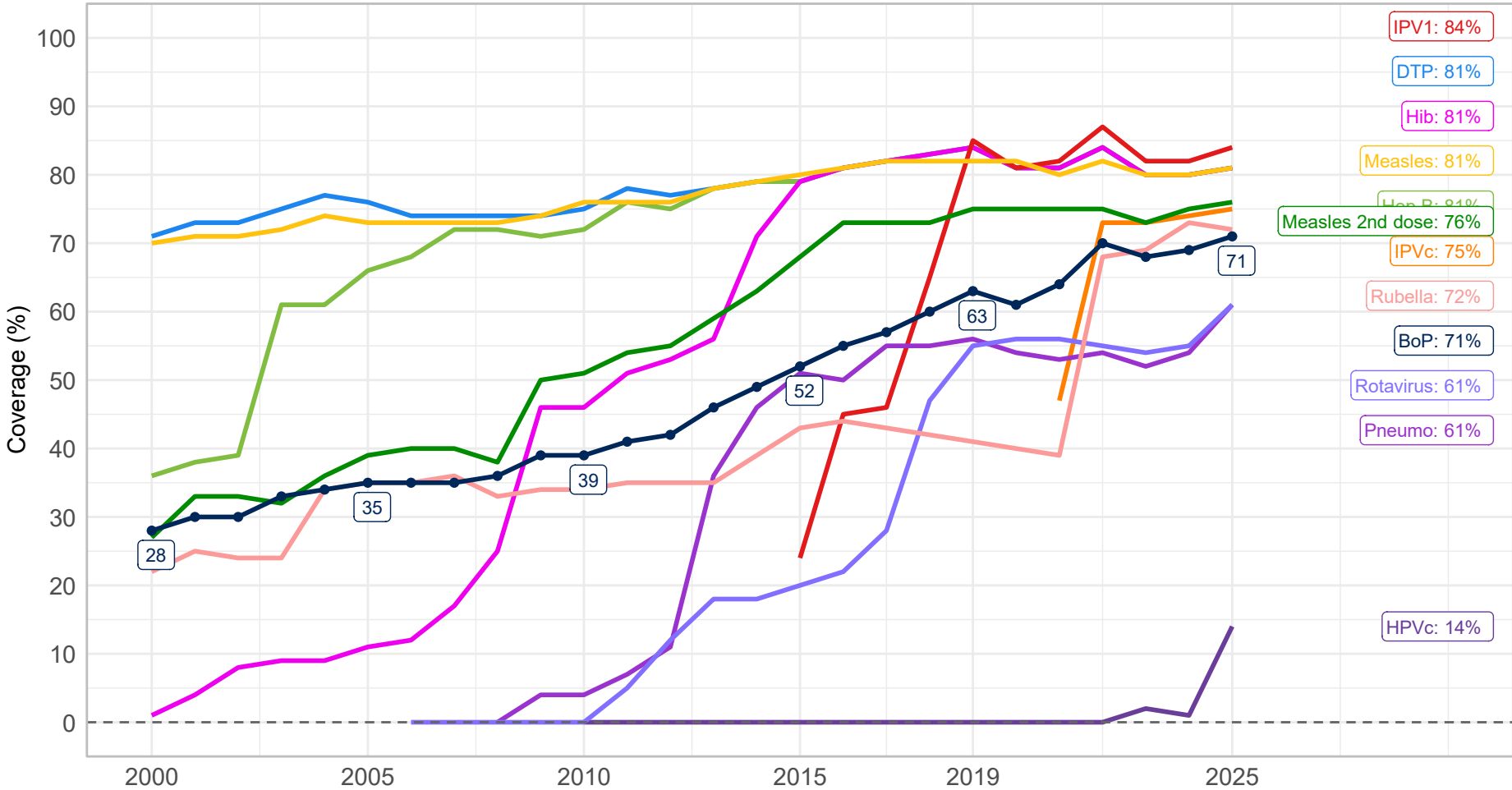
BOP increased from 28% in 2000 to 71% in 2025. This increase since 2000 is a result of incremental improvement in introducing new vaccines and expanding vaccination services to previously missed populations.

Enhancing BOP now depends partly on improving the coverage of HPV, PCVC, ROTAC, RCV1, IPVc, and MCV2 - vaccines with coverage less than 80% in 2025.

Breadth of protection = ((DTP3 x 3) + HepB3 + Hib3 + IPV1 + IPVc + MCV1 + MCV2 + PCV3 + RCV1 + RotaC + HPV) / 13

Breadth of protection with all recommended antigens has more than doubled since 2000, but reaching the next gains depends on closing coverage gaps in newer vaccines still below 71%.

Breadth of protection, EMR, 2000-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision

$$\text{Breadth of protection (BoP)} = ((\text{DTP3} \times 3) + \text{HepB3} + \text{Hib3} + \text{IPV1} + \text{IPVC} + \text{MCV1} + \text{MCV2} + \text{PCVC} + \text{RCV1} + \text{RotaC} + \text{HPVc}) / 13$$

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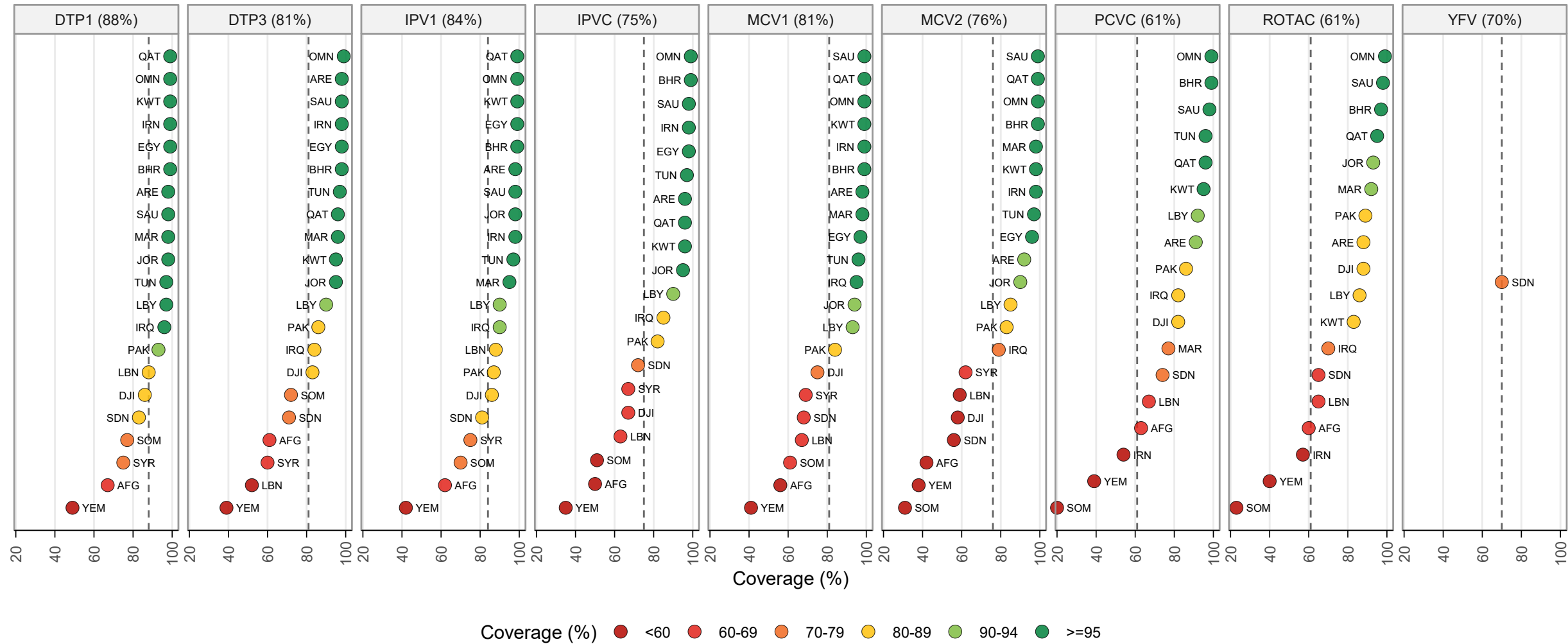
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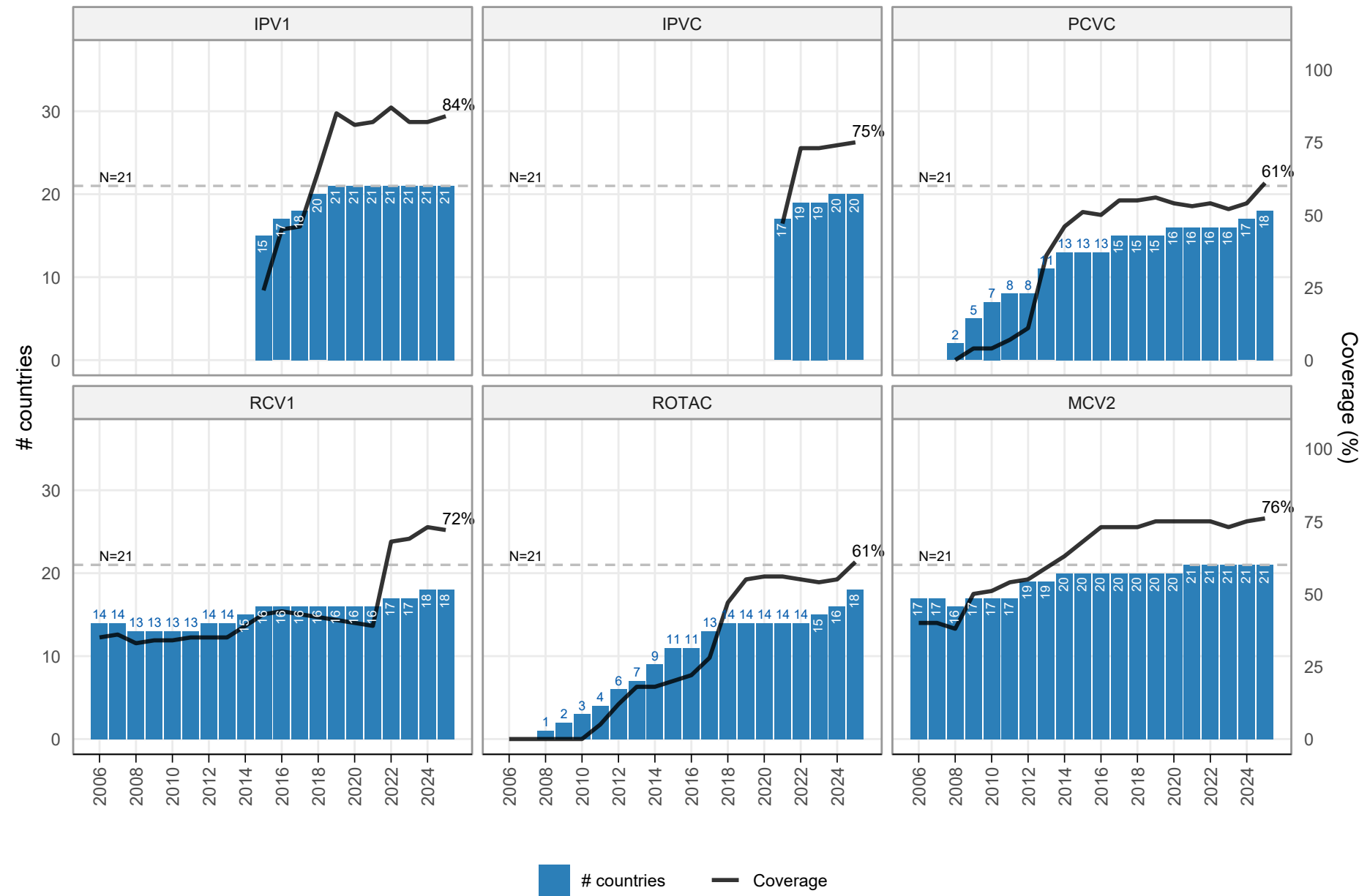
Regional average coverage masks variation between countries across all vaccines, highlighting heterogeneity in immunization performance and the need for targeted, country-specific strategies to reach underserved populations.

Vaccine coverage (%), by country, EMR, 2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Countries are ranked within each region. Country ISO codes displayed. Regional average coverage is shown in the headers and by the dashed line.

Trends in number of countries with WUENIC estimates and coverage, EMR, 2006-2025



This chart coverage progress of selected vaccines alongside number of countries with introductions to aid understanding of progress.

WUENIC starts producing estimates from the first year a country reports data. For new vaccines, this is often the year of, or the year year after a vaccine in introduced. As such, the numbers serve as a proxy for year of introduction.

As WUENIC has evolved and SAGE recommendations updated, more vaccines have been added to the estimation process. Where estimates were started after 2006, the first year of estimation is indicated by the vertical dashed line.

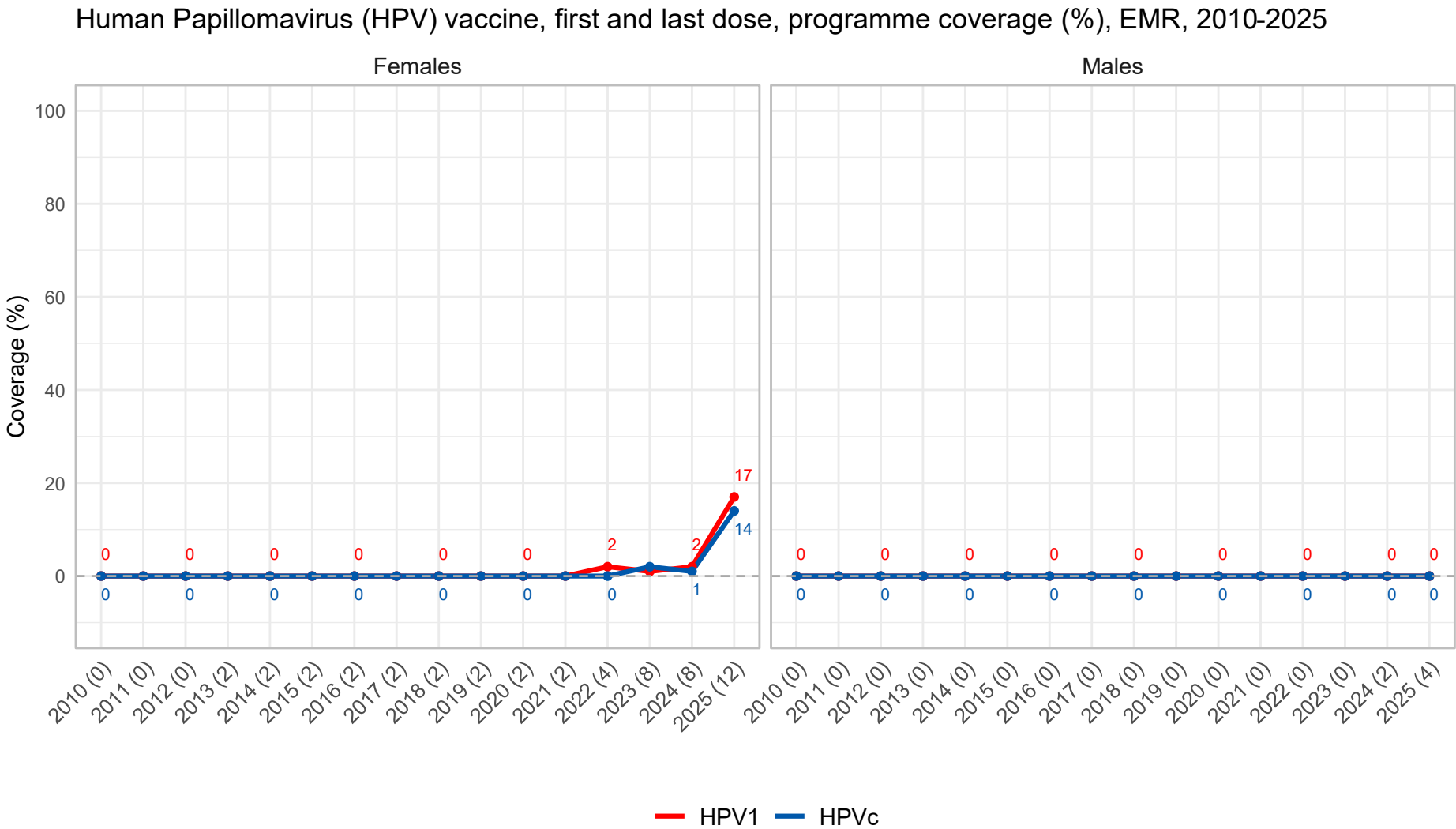
The total number of countries that are recommended for each vaccine is indicated by the dashed horizontal line and corresponding value.

Countries without the vaccine are included in aggregates as 0.

HPV vaccination

Methods: • [Bruni et al. 2021, HPV vaccination introduction worldwide and WHO and UNICEF estimates of national HPV immunization coverage 2010–2019 \(supplementary materials\).](#)

In 2025, HPV last dose coverage among girls increased to 14% and coverage among boys remained the same at 0%.Increases among girls are driven by new introductions, national scale up and 1-dose scheudle implementation.



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
Note: Number of countries with HPV vaccination are indicated in parentheses. Countries without introduction are included in aggregates using a value of zero for the estimate.

HPV programme coverage is assessed according to the national schedule, and is used for short-term performance monitoring and SDG reporting.

In 2025, first dose (HPV1) coverage among girls increased to 17% and last dose (HPVc) coverage increased to 14%.

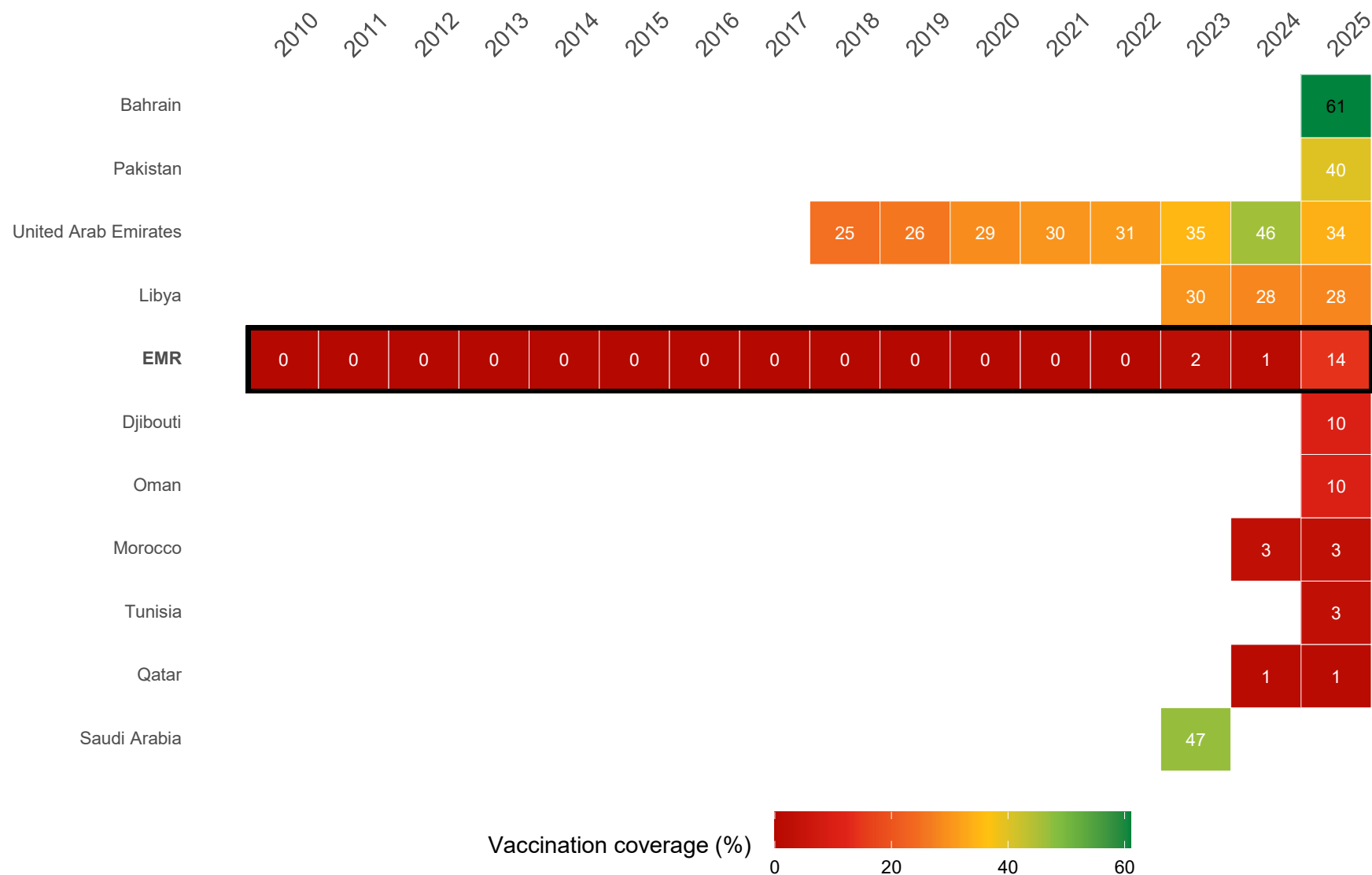
HPV1 coverage among boys remained the same at 0% and HPVc coverage remained the same at 0%.

HPV vaccine was available in 12* (out of 21) countries for girls and 4 for boys. Countries that have not introduced are included in aggregates with coverage of 0%.

Increasing coverage relies on reaching more girls and boys in existing programmes and introducing HPV vaccine in countries that have not yet introduced it.

*Includes partial introductions

HPVc programme coverage, girls, by country, EMR, 2010-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
 Note: Only countries with HPV introduction and where estimates were made are displayed.
 Countries without HPV vaccination are included in the aggregate with a value of 0.
 Countries are ordered based on descending coverage in 2025.

The 'HPVc programme coverage' indicator is defined as the target population who received the last dose of HPV vaccine in the reporting year.

This heatmap shows HPVc programme coverage among girls, by country and year. The colour gradient is based on the best performing country.

In 2025, Bahrain had the highest HPVc coverage (61%), and Qatar had the lowest coverage (1%).

Countries without HPV vaccine in 2025 (n=10): Afghanistan, Egypt, Iran, Iraq, Jordan, Lebanon, Somalia, Sudan, Syria, and Yemen.

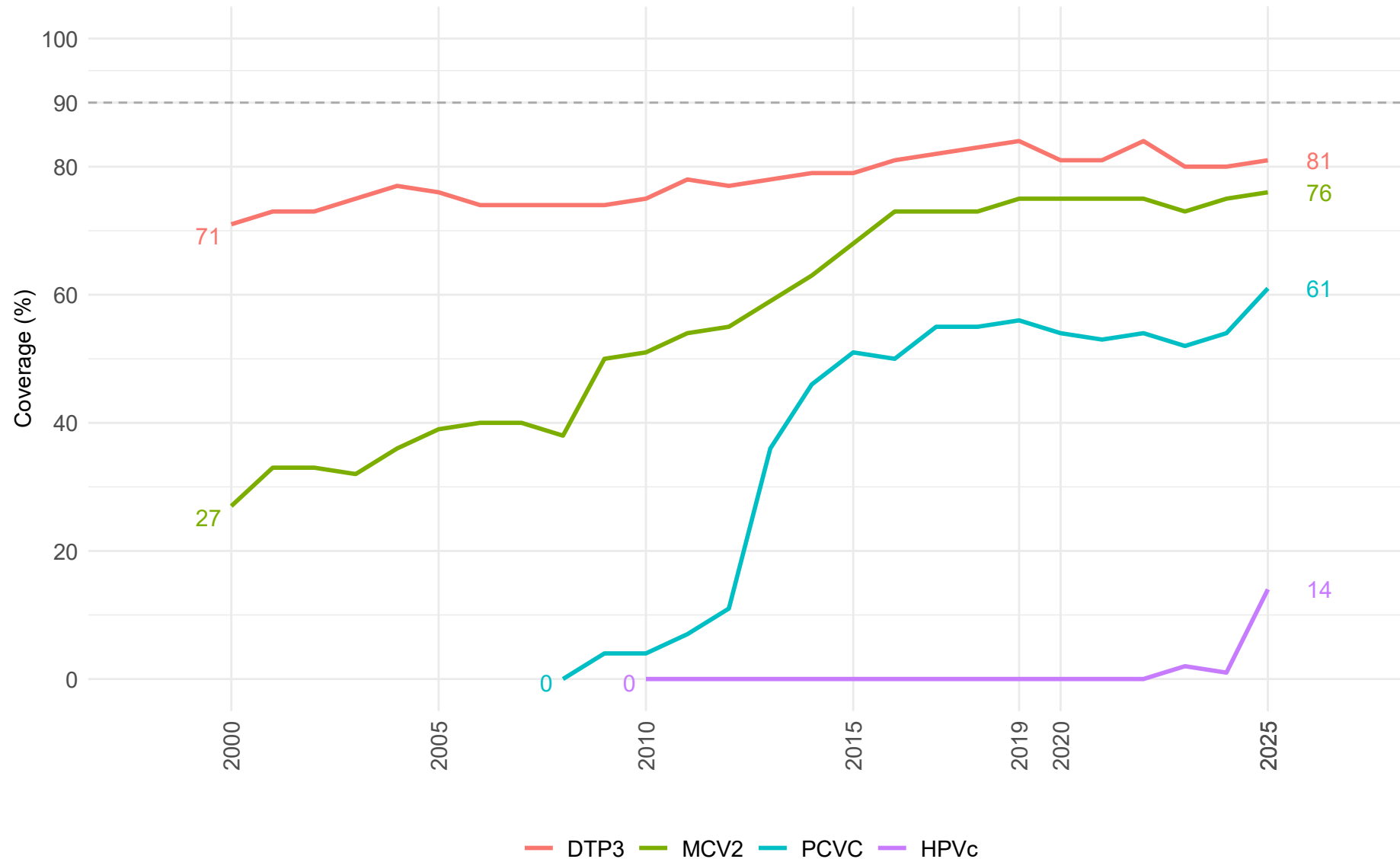
unicef

World Health Organization

WUENIC 2025 revision

SDG 3.b.1

SDG 3.b.1: Proportion of the target population covered by all vaccines included in their national programme, 2000-2025



Source: WHO/UNICEF Estimates of National Immunization Coverage, 2025 revision
 Note: The four vaccination coverage indicators contribute to SDG indicator 3.b.1 are: DTP3, MCV2, PCVC and HPVc
 The global target is 90% coverage of all four antigens by 2030

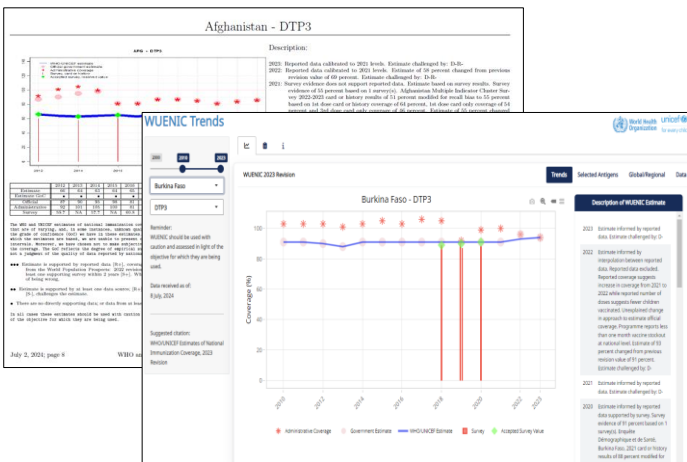
Four vaccination coverage indicators contribute to Sustainable Development Goal 3, indicator b.1: DTP3, PCVC, MCV2 and HPVc (females).

The IA2030 global target is 90% coverage of all four antigens by 2030.

In 2025, EMR had achieved at least 90% coverage of 0 out of the 4 vaccines.

Additional resources

WUENIC country profiles (PDF and interactive versions)

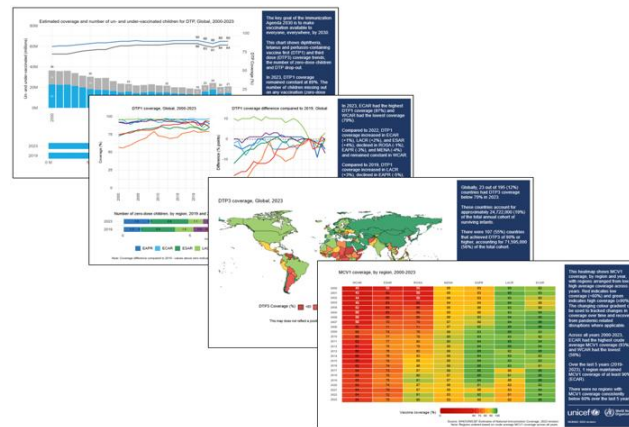


Datasets: WUENIC, HPV, survey database

	A	B	C	D	E	F	G	H	I	J
	unicef_regioiso3c	country	vaccine	year	target_grp	coverage	vaccinated	unvaccinated	target	
1	ROSA	AFG	Afghanistan bcg	1982	births	10	57,000	514,000	571,000	
2	ROSA	AFG	Afghanistan bcg	1983	births	10	56,000	503,000	559,000	
3	ROSA	AFG	Afghanistan bcg	1984	births	11	62,000	501,000	563,000	
4	ROSA	AFG	Afghanistan bcg	1985	births	17	100,000	490,000	591,000	
5	ROSA	AFG	Afghanistan bcg	1986	births	18	107,000	489,000	596,000	
6	ROSA	AFG	Afghanistan bcg	1987	births	27	161,000	434,000	595,000	
7	ROSA	AFG	Afghanistan bcg	1988	births	40	238,000	358,000	596,000	
8	ROSA	AFG	Afghanistan bcg	1989	births	38	233,000	380,000	614,000	
9	ROSA	AFG	Afghanistan bcg	1990	births	30	191,000	446,000	637,000	
10	ROSA	AFG	Afghanistan bcg	1991	births	21	134,000	505,000	640,000	
11	ROSA	AFG	Afghanistan bcg	1992	births	19	127,000	541,000	668,000	
12	ROSA	AFG	Afghanistan bcg	1993	births	17			760,000	
13	ROSA	AFG	Afghanistan bcg	1994	births	15			852,000	
14	ROSA	AFG	Afghanistan bcg	1995	births				899,000	
15	ROSA	AFG	Afghanistan bcg	1996	births				932,000	
16	ROSA	AFG	Afghanistan bcg	1997	births				962,000	
17	ROSA	AFG	Afghanistan bcg	1998	births				986,000	
18	ROSA	AFG	Afghanistan bcg	1999	births				1,013,000	
19	ROSA	AFG	Afghanistan bcg	2000	births	30			1,037,000	
20	ROSA	AFG	Afghanistan bcg	2001	births	43	453,000	374,000	1,007,000	
21	ROSA	AFG	Afghanistan bcg	2002	births	46	467,000	548,000	1,015,000	

Country and region-specific slides:

*UNICEF, WHO, World Bank, Gavi and
African Union regions*



Additional Resources

Additional
immunization
data resources
can be found at:

<https://data.unicef.org/resources/immunization/>

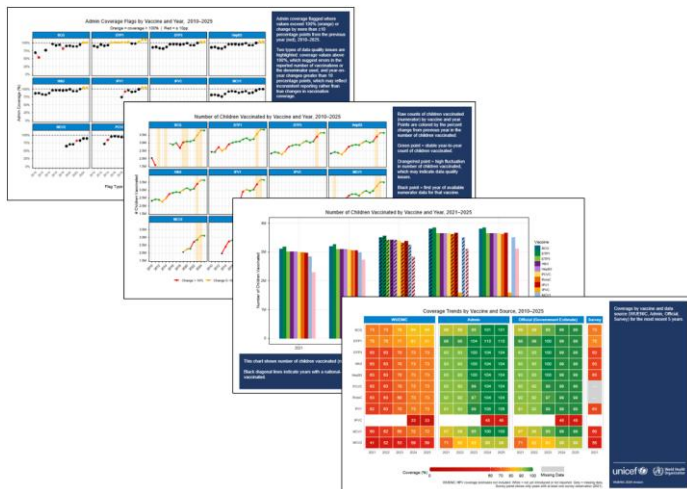
Interactive immunization regional snapshots:

*UNICEF, WHO, World Bank, Gavi and
African Union regions*



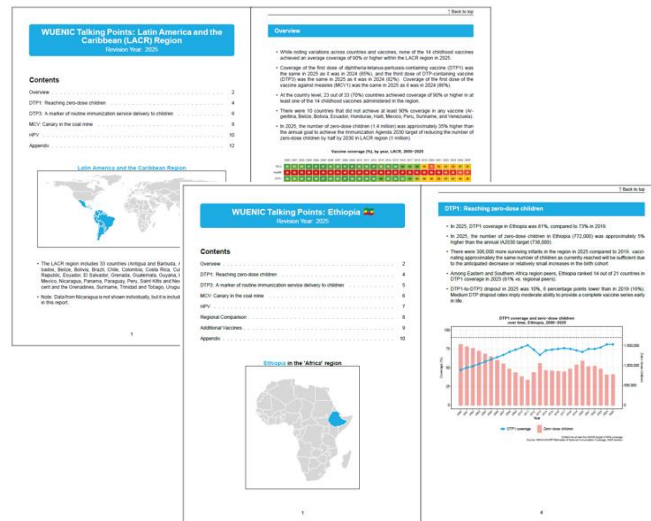
Country data quality reports

(NEW 2026)



Country and region-specific high-level talking points

(NEW 2026)



Interactive
WUENIC
country profiles
can be found at:

<https://worldhealthorg.shinyapps.io/wuenic-trends/>

Short feedback questionnaire

(5 minutes)

We are seeking your feedback on the global groupings (GAVI, African Union, World Bank Income, WHO and UNICEF) and country-level PowerPoint slides developed for the release of global immunization estimates. Your input will help us understand their usefulness and identify areas for improvement.

Please take a few moments to complete this short survey and have your voice heard:

<https://forms.office.com/e/Qv1HXxxNZQ>

