



Monitoring Metrics Related to the Global Covid-19 Vaccination Strategy in a Changing World

July 2022 update



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Purpose of this document

This document complements the WHO's '*Global Covid-19 Vaccination Strategy in a Changing World*' published in July of 2022.¹ Its purpose is to specify key monitoring metrics to guide progress towards the goals, objectives, and operational priorities of the strategy.

Monitoring metrics

The following metrics are **recommended for the global community to measure and monitor progress in support of the strategic goals** (see table 1). The metrics associated with goal 1 are to be reported on at country-level, while the metrics associated with goal 2 are at the global level.

Metrics 1-3 and 7 were defined as key performance indicators (KPIs) to **measure actual performance against targets outlined in the strategy**. These KPIs are considered the priority metrics and have been highlighted in green in table 1. The remaining metrics were developed in anticipation of additional real-world evidence to support the development of appropriate performance indicators.

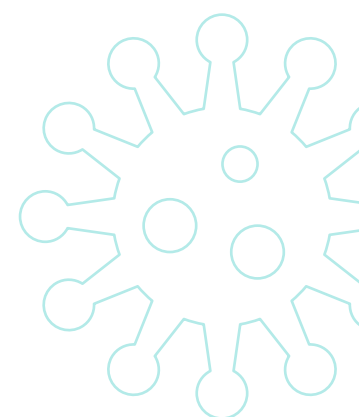


Table 1. Monitoring metrics related to the 'Global Covid-19 Vaccination Strategy in a Changing World - July 2022 Update'

Strategic goals	Monitoring metrics
Goal 1 <i>'Sustain and enhance momentum to reduce mortality and morbidity, protect health systems, and resume socio-economic activity with existing vaccines'</i>	1. A. Share of healthcare workers vaccinated with a complete primary series. B. Share of healthcare workers vaccinated with at least one booster/additional dose. ²
	2. A. Share of older adults vaccinated with a complete primary series. B. Share of older adults vaccinated with at least one booster/additional dose.
	3. A. Share of total population vaccinated with a complete primary series. B. Share of total population vaccinated with at least one booster/additional dose. ³
	4. <i>Where applicable</i> A. Share of population in areas with people in need of humanitarian assistance vaccinated with a complete primary series. B. Share of population in areas with people in need of humanitarian assistance vaccinated with at least one booster/additional dose.
	5. System for vaccination of adults in place through a primary healthcare and life course approach.
	6. Core COVID-19 data⁴ collected through electronic health information system.⁵

1 <https://www.who.int/publications/m/item/global-covid-19-vaccination-strategy-in-a-changing-world--july-2022-update>

2 Countries and territories are encouraged to track the administration of additional booster doses.

3 While several countries have set national targets to better reflect their specific contexts, metric 3 pertains to the total population for the purposes of comparability over time and between regions.

4 Including metrics 1-3 of the current strategy.

5 Notwithstanding, robust reporting is also occurring in an analog fashion at a health-facility system level in many countries.



Goal 2 <i>'Accelerate development and access to improved vaccines to achieve durable, broadly protective immunity, and reduce transmission'</i>	7. A. Number of COVID-19 vaccine products with improved attributes in phase 2/3 clinical trial with prospects to increase duration, broaden immunity, reduce transmission, and improve delivery. B. Number of COVID-19 vaccine products with improved attributes authorized with prospects to increase duration, broaden immunity, reduce transmission, and improve delivery.
	8. A. Number of vaccine effectiveness studies against variants of concern (VoCs) by product and by country. B. Number of vaccine safety studies by product and by country.
	9. Number of secured doses of vaccine products with improved attributes by income group per 100 inhabitants.
	10. Number of delivered doses of vaccine products with improved attributes by income group per 100 inhabitants.

Mechanisms for reporting

To create transparency on the global progress against the goals outlined in the Covid-19 vaccination strategy, WHO will aggregate the data for all 10 monitoring metrics at the global level. In doing so, it aims to **standardize calculation approaches to the extent possible** to ensure the comparability of the metrics' values between countries, as well as over time. The sources of (meta)data have been outlined in table 2. Countries are recommended to continue reporting data at least monthly for metrics 1-4, and annually for metric 6. WHO will monitor worldwide progress against metrics 7-10 on a monthly basis.

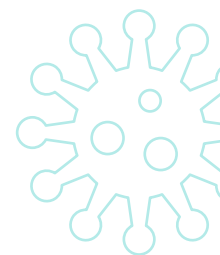
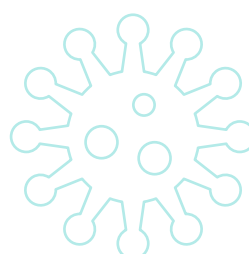


Table 2. Metadata for monitoring metrics related to the 'Global Covid-19 Vaccination Strategy in a Changing World - July 2022 update'

Monitoring metrics	Metadata	Source
1	<ul style="list-style-type: none"> • Number of healthcare workers vaccinated with a complete primary series by country • Number of healthcare workers vaccinated with at least one booster/ additional dose by country 	<ul style="list-style-type: none"> • Regional systems based on country reports
	<ul style="list-style-type: none"> • Total number of healthcare workers by country 	<ul style="list-style-type: none"> • ILOStat. Employment by sex and age – ILO modelled estimates⁶ • WHO Health workforce estimations⁷

⁶ <https://ilostat.ilo.org/data>

⁷ <https://www.who.int/data/gho/data/themes/topics/health-workforce>



2	<ul style="list-style-type: none"> • Number of older adults vaccinated with a complete primary series by country • Number of older persons vaccinated with at least one booster/additional dose by country • Definition of 'older population' age group by country⁸ 	<ul style="list-style-type: none"> • Regional systems based on country reports
	<ul style="list-style-type: none"> • Total number of older adults, aggregated by age based on country-specific definition of older population 	<ul style="list-style-type: none"> • United Nations population estimates⁹
3	<ul style="list-style-type: none"> • Number of persons vaccinated with a complete primary series by country • Number of persons vaccinated with at least one booster/additional dose by country 	<ul style="list-style-type: none"> • Regional systems based on country reports
	<ul style="list-style-type: none"> • Total population by country 	<ul style="list-style-type: none"> • United Nations population estimates
4	<ul style="list-style-type: none"> • Areas with people in need of humanitarian assistance 	<ul style="list-style-type: none"> • Global Humanitarian Overview, defined by The United Nations Office for the Coordination of Humanitarian Affairs (OCHA)¹⁰
	<ul style="list-style-type: none"> • Total number of people living in areas with people in need of humanitarian assistance 	<ul style="list-style-type: none"> • Multiple sources, as collated by the UN (WHO) Global Health Cluster¹¹
5	<i>The WHO will define a data collection mechanism in the second half of 2022</i>	
6	<ul style="list-style-type: none"> • Proxy metric¹² 	<ul style="list-style-type: none"> • WHO And UNICEF 's annual eJRF¹³ • Supplementary information provided by countries

8 While the 60+ age bracket is recommended for the purposes of comparability over time and across regions, the metric will be monitored in line with country-specific definitions of older adults to stimulate reporting.

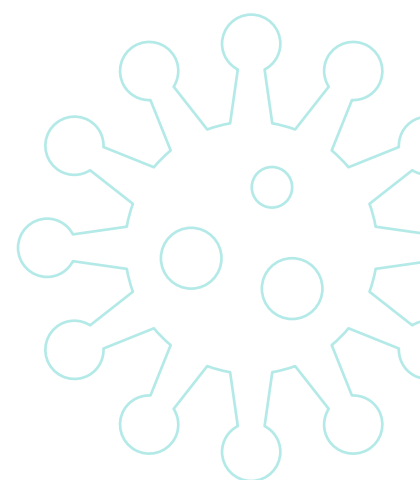
9 <https://population.un.org/wpp/>

10 <https://gho.unocha.org/>

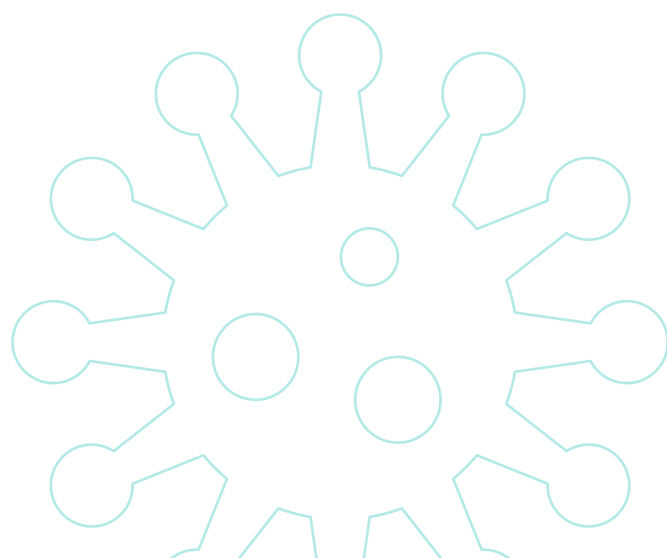
11 <https://hum-insight.info/>

12 The question from the eJRF used to indicate progress and against metric 6 is 'Does the country have an electronic system that was already in place for routine immunization and was adapted to COVID-19 or new system developed for COVID-19 vaccines and was, is being or will be expanded to other routine vaccines.'

13 <https://www.who.int/teams/immunization-vaccines-and-biologicals/immunization-analysis-and-insights/global-monitoring/who-unicef-joint-reporting-process>



7	<ul style="list-style-type: none"> • Number of COVID-19 vaccine products in phase 2/3 clinical trial • Number of COVID-19 vaccine products authorized 	<ul style="list-style-type: none"> • WHO International Clinical Trials Registry Platform¹⁴ • Public registries, such as IVAC View-hub • Sources will be further specified and developed
8	<ul style="list-style-type: none"> • Number of COVID-19 vaccine effectiveness studies against VoCs • Number of COVID-19 vaccine safety studies 	
9-10	<ul style="list-style-type: none"> • Number of secured COVID-19 vaccine doses through supply agreements by product by country • Number of delivered COVID-19 vaccine doses by product by country 	<ul style="list-style-type: none"> • UNICEF COVID-19 Vaccine Market Dashboard
	<ul style="list-style-type: none"> • Countries by income group 	<ul style="list-style-type: none"> • World Bank country classifications by income level
	<ul style="list-style-type: none"> • Total population by country 	<ul style="list-style-type: none"> • United Nations population estimates



14 <https://www.who.int/clinical-trials-registry-platform>

