Current recommendations from SAGE regarding COVID-19 vaccines



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25 October 2021



Compendium of Critical Questions

WHO SAGE values framework for the allocation and prioritization of COVID-19 vaccination

14 September 2020



Values Framework

WHO SAGE ROADMAP FOR PRIORITIZING USES OF COVID-19 VACCINES IN THE CONTEXT OF LIMITED SUPPLY

epidemiologic setting and vaccine supply scenarios



Prioritization Roadmap

EVIDENCE TO RECOMMENDATIONS: COVID-19 VACCINES

A framework to inform the assessment of evidence and formulation of subsequen

Vaccine-specific recommendations based on Evidence Framework

WHO Strategic Advisory Group of Experts (SAGE) on Immunization Working Group on COVID-19 Vaccines: Prioritized Infectious Disease and Economic Modelling Questions

Request for Information

As part of its scoping of the landscape of modelling groups and initiatives related to COVID-19 vaccines, we invite modellers and economists to provide information about their work on COVID-19 vaccination that addresses prioritized modelling questions to contribute to informing deliberations around policy recommendations from the WHO SACE as the present state.

SAGE on Covid-19 vaccine

Modeling

Additional considerations (e.g. current epidemiology)

Background paper with COVID-19 generic considerations

Background paper with vaccine-specific considerations

Interim
recommendations for
use (product/platform
specific)

Evidence to Recommendations & grading tables

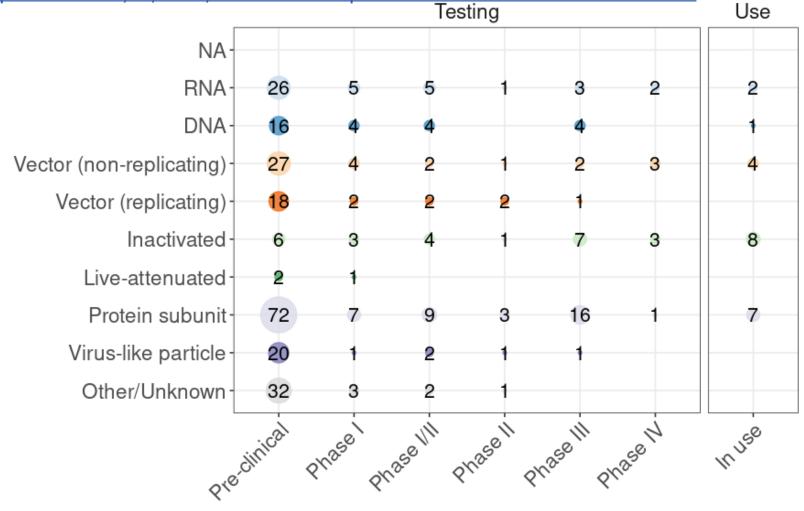


The outputs from the SAGE on COVID-19 vaccinations

COVID-19 vaccine development landscape

As of 14 October 2021, a total 332 candidate vaccines of which 113 in clinical trials, 22 in large scale use

https://www.who.int/publications/m/item/draft-landscape-of-covid-19-candidate-vaccines





Overview of WHO EULs and SAGE recommendations



At least 17 vaccines* deployed to date...

- Adbala
- Anhui ZL Recombinant
- AstraZeneca Vaxzevria
- Beijing CNBG BBIBP-CorV
- Bharat Covaxin
- CanSino Convidecia
- Chumakov Covi-Vac
- Gamaleya Gam-Covid-Vac
- Janssen Ad26.COV 2-S
- Moderna mRNA-1273
- Pfizer BioNTech Comirnaty
- RIBSP QazVac
- SII Covishield
- Sinovac CoronaVac
- Soberana02
- SRCVB EpiVacCorona
- Wuhan CNBG Inactivated

...out of which 6 have WHO EUL authorization and SAGE recommendations

WHO EUL	SAGE Interim Recs	
	Initial	Updates
Dec 31 (2020)	Jan 5	Jun 14
Feb 15 ¹	Feb 8	Apr 21/ July 30
Mar 12	Mar 17	Jun 14
Apr 30	Jan 25	June 14
May 7	May 7	Oct 5
June 1	May 24	Oct 5
	Dec 31 (2020) Feb 15 ¹ Mar 12 Apr 30 May 7	WHO EUL Initial Dec 31 (2020) Jan 5 Feb 15¹ Feb 8 Mar 12 Mar 17 Apr 30 Jan 25 May 7 May 7

Additional vaccines under evaluation; Bharat Covaxin most advanced in process

Source: WHO

^{*} Authorized by National Regulatory authorities for use outside research

^{1.} MFDS Korea EUL finalized Feb 15. EMA SK-Catalent followed Apr 16 and Wuxi (DS) Apr 30

Three interim statements from SAGE on 10 August 2021 and 4 October 2021



https://www.who.int/news/item/10-08-2021-interim-statement-on-covid-19-vaccine-booster-doses

https://www.who.int/news/item/10-08-2021-interim-statement-on-dose-sparing-strategies-for-covid-19-vaccines-

(fractionated-vaccine-doses); https://www.who.int/news/item/10-08-2021-interim-statement-on-heterologous-priming-for-covid-19-vaccines

Heterologous priming for COVID-19 vaccines

The same vaccine product should be used for both doses.

If different COVID-19 vaccine products are inadvertently administered in the two doses, no additional doses of either vaccine are recommended.

At present, mix and match schedules constitute off-label use of respective vaccines and as such should only be used if benefits outweigh the risks such as in situations of interrupted vaccine supply.

Dose-sparing strategies for COVID-19 vaccines (fractionated vaccine doses)

While SAGE acknowledges the potential

public health benefits of dose-sparing strategies to increase vaccine supply and accelerate population-level vaccination coverage, and possibly also a reduction in reactogenicity, SAGE considers there is currently insufficient evidence to recommend the use of fractional doses. Any use of a fractional dose at this point in time constitutes an off-label use of the vaccine. SAGE encourages research in the area, with a particular emphasis on research into using fractionated doses as potential boosters and fractional doses in children and adolescents. Programmatic and operational considerations should be considered from the start.

COVID-19 vaccine booster doses

Introducing booster doses should be firmly evidence-driven and targeted to the population groups in greatest need.

The rationale for implementing booster doses should be guided by evidence on waning vaccine effectiveness, in particular a decline in protection against severe disease in the general population or in high risk populations, or due to a circulating VOC.

To date, the evidence remains limited and inconclusive on any widespread need for booster doses following a primary vaccination series.

WHO is carefully monitoring the situation and will continue to work closely with countries to obtain the data required for policy recommendations.





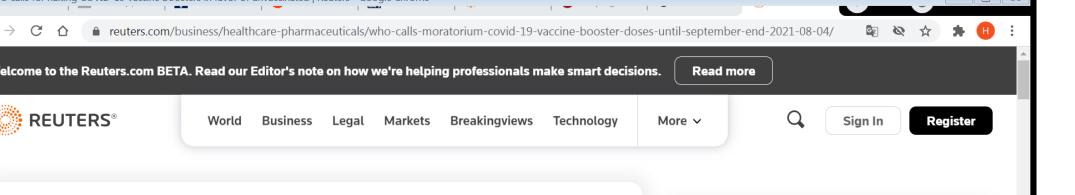
COVID-19 Vaccination in Immunocompromised Persons

- Extending primary series with additional dose to enhance reduced performance of standard primary series and mitigate the risk of COVID-19 in these individuals.
- Deliver at 1-3 mo following last dose of standard primary series, or earliest opportunity thereafter.
- Homologous product, in standard practice. A
 heterologous dose acceptable if required by
 vaccine supply and access considerations.



Inactivated COVID-19 vaccines (Sinovac-Coronavac, BIBP-CorV Sinopharm)

- Additional dose recommended for those ≥ 60 years as part of an extended primary series.
- Deliver at 3-6 months following second dose, or earliest opportunity thereafter.
- Homologous product, in standard practice. A
 heterologous dose acceptable if required by
 vaccine supply and access considerations.



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Healthcare & Pharmaceuticals

WHO calls for halting COVID-19 vaccine boosters in favor of unvaccinated

2 minute read By Manas Mishra and Dania Nadeem



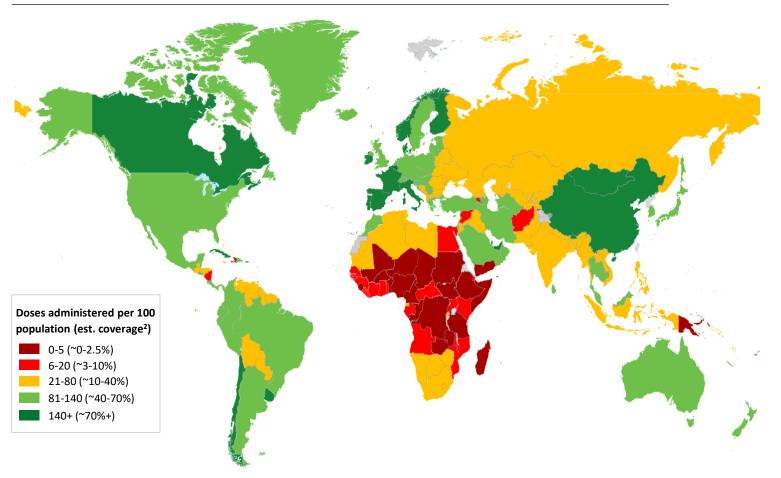




Vaccine equity is the 'challenge of our time'



Covid-19 vaccine doses administered per 100 population (est. coverage¹)



- >6.6 billion
 vaccine doses
 have been
 administered
 worldwide
- Less than 3% of people in LICs have received at least 1 dose

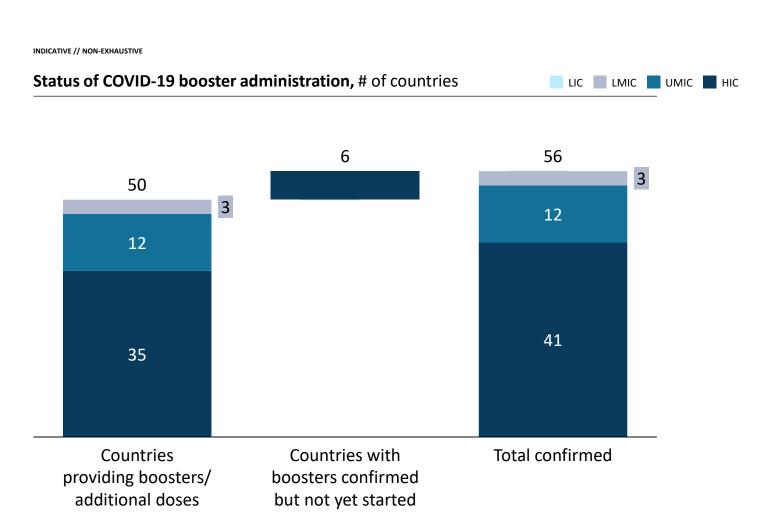
Note: The designations employed and the presentation of these materials do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Source: WHO COVID-19 Dashboard (map creation), Bloomberg (total # of doses administered), COVAX SCO tracker (UNICEF data) (COVAX shipments)

Assuming 2 doses per fully vaccinated inhabitant

At least 56 countries have confirmed COVID-19 vaccine boosters/additional doses

PLEASE NOTE: WHO DOES NOT RECOMMEND BOOSTER DOSES, AND HAS CALLED FOR A VACCINE BOOSTER MORATORIUM UNTIL END OF 2021



Key takeaways

50 countries (70% are HICs) started administering boosters/additional doses as of Oct 5th:

6 HICs confirmed a booster program but yet to start

At least 12 other countries are considering a booster program

At **least 3x as many** booster doses are administered **daily** as there are primary doses in LICs

Rationale for boosters/additional doses Outcome of primary interest - severe disease/hospitalization

- 1. Decline over time in performance of vaccine primary series
- 2. Variants have evolved to a degree that protection by original vaccines becomes inadequate (original or variant vaccine boost).
- 3. Inadequate protection with primary series for some risk groups (for example, immunocompromised) ("Additional dose", not a booster)

The need for booster doses may differ by vaccine product, epidemiological setting,
risk group, and other factors

SAGE is reviewing data on each of these elements –
next SAGE meeting tentatively on 18 November 2021