touchPANEL DISCUSSION

Reducing transmission of COVID-19: Spotlight on vaccines



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What are the most effective strategies to increase COVID-19 vaccination rates?

Looking ahead: Future direction of COVID-19 vaccination



COVID-19 vaccination: Where are we now?



Global COVID-19 vaccine coverage

Percentage of people who have received ≥1 dose of COVID-19 vaccine



*As of 26 February 2023; †as of 29 January 2023; ‡as of 19 February 2023; [§]as of 2 January 2023; ^Ias of 28 February 2023. Our World In Data. Available at: <u>www.ourworldindata.org/covid-vaccinations</u> (accessed 13 March 2023).



• COVID-19 vaccines

Cop four vaccines with greatest global reach¹



Four most commonly acquired vaccines in Africa²



*The manufacturer is unknown for 37% of vaccines delivered.

MENA, Middle East and North Africa; mRNA, messenger ribonucleic acid; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.

1. Rashedi R, et al. J Med Virol. 2022;94:1294–9; 2. Africa CDC. 2023. Available at: <u>www.africacdc.org/covid-19-vaccination</u> (accessed 7 March 2023);

3. UNICEF. Available at: www.unicef.org/supply/covid-19-market-dashboard (accessed 13 March 2023).



Factors contributing to differential uptake of COVID-19 vaccines in population subsets



• Taxonomy for determinants of vaccine uptake¹⁻³



INFECTIOUS DISEASES

The 6As taxonomy of determinants of vaccination uptake was developed by Dr Angus Thomson.

1. Thomson A, et al. Vaccine. 2016;34:1018–24; 2. Joshi A, et al. Front Public Health. 2021;9:698111; 3. Kassianos G, et al. Drugs Context. 2021;10:2020–9–5.

• Continuum of vaccine acceptance

In 2019, the WHO declared that vaccine hesitancy was one of ten threats to global health¹

Vaccine hesitancy continuum^{2,3}



Increasing confidence in vaccine, vaccinator and health system

WHO, World Health Organization.

1. WHO. Available at: <u>www.who.int/news-room/spotlight/ten-threats-to-global-health-in-2019</u> (accessed 27 February 2023); 2. SAGE Working Group. Report of the SAGE Working Group on Vaccine Hesitancy. World Health Organization: Geneva, Switzerland. 2014; 3. CDC. 2021. Available at: <u>www.cdc.gov/vaccines/covid-19/downloads/vaccinatewconfidence-tipsforhcteams_508.pdf</u> (accessed 19 March 2023).



What are the most effective strategies to increase COVID-19 vaccination rates?



Tackling barriers to vaccine uptake¹⁻³



CTIOUS DISEASES

1. Thomson A, et al. Vaccine. 2016;34:1018–24; 2. WHO. Weekly Epidemiological Record. No 20. 2022;97:209–24;

3. Kassianos G, et al. Drugs Context. 2021;10:2020-9-5.

Looking ahead: Future direction of COVID-19 vaccination



A spotlight on Africa and the Middle East

North America makes up ~8% of the world's population^{1*} and has received



Africa makes up ~18% of the world's

population^{1*} and has received

§ as of January 6 2023 world average was 165 doses per 100.

1. Our World In Data. Available at: www.ourworldindata.org/grapher/population (accessed 31 January 2023);

2. Our World In Data. Available at: www.ourworldindata.org/covid-vaccinations (accessed 31 January 2023).



The Middle East makes up ~5% of the

world's population^{1*} and has received

COVID-19 vaccine administration* by country income

Doses are counted individually, including boosters



High income:
GNI per capita of ≥ \$13,205

Upper middle income:
GNI per capita of \$4,256-\$13,205

Lower middle income:
GNI per capita of \$1,086-\$4,255

Low income:
GNI per capita of ≤ \$1,086



*Per 100 people. GNI, gross national income.

Our World In Data. Available at: www.ourworldindata.org/grapher/cumulative-covid-vaccinations-income-group (accessed 13 March 2023).