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ARTICLES

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COVID-19 vaccine acceptance and hesitancy in low- and middle-income countries

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Inspread an options of COVID-19 variations is conciled for additioning sufficient immunication coverage to and its, just to be studies have incontigrated COVID-19 variations and all tudes is inserving the conditioned and its just be believed. We insuface COVID-19 variation scoregates are around 51 surveys samples covering 10 their and drains COMIC-20 in Aulis, Advise and Stachh America, Bass 4 a farmage are existed in some exempt and the United SI of 4.4.300 factoriants. We find a considerably high their willingness to take a COVID-19 variate to an extAMC 20 provide a 70 Vor range 20.0 percentage polisitis compared with the United SI bass (mean 6.4.4%) and Russit in acceptance in EMEs is a primarily equilated by us in terest is personal performing angint COVID-98, while effects is the meant common reason for heatback, that just initiative variate states that the United Si initia. Evidence of the SIAS is a primary equilated by the site primary variation devices and the SIAS of SIAS of SIAS and Russit enders in advancing global immunization coverage. Variations comparing variated biotes on transitions to the SIAS of SIAS of SIAS of SIAS and Russit reference is advancing global immunization coverage. Variations comparing variation during delivered by baselthcare filective for addressing any remaining basit and prime that size of SIAS of FLMIC sa

afe and effective vaccine is a critical tool to control the COVED-19 pandemic. At al 25 hour 2012, 12 vaccines had advanual to Sagar 3 chirals traits of an inner than a draw that are key determinants of the succ-advanual to Sagar 3 chirals traits of an inner than a scheme traverigues traits "hird" Eck, the cancerds, has how approved in strends in the resources are approved in studied for CMARM and traits. The SNTERS's vaccine inter, hird "Eck, the cancerds, has how approved in the first Anner Anne

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COVID-19 Vaccine Acceptance and Hesitancy in Low- And Middle-Income Countries

Widespread acceptance of COVID-19 vaccines is crucial for achieving sufficient immunization coverage to end the global pandemic, yet few studies have investigated COVID-19 vaccination attitudes in lower-income countries, where large-scale vaccination is just beginning. We analyze COVID-19 vaccine acceptance across 15 survey samples covering 10 low- and middle-income countries (LMICs) in Asia, Africa and South America, Russia (an upper-middle-income country) and the United States, including a total of 44,260 individuals. We find considerably higher willingness to take a COVID-19 vaccine in our LMIC samples (mean 80.3%; median 78%; range 30.1 percentage points) compared with the United States (mean 64.6%) and Russia (mean 30.4%). Vaccine acceptance in LMICs is primarily explained by an interest in personal protection against COVID-19, while concern about side effects is the most common reason for hesitancy. Health workers are the most trusted sources of guidance about COVID-19 vaccines. Evidence from this sample of LMICs suggests that prioritizing vaccine distribution to the Global South should yield high returns in advancing global immunization coverage. Vaccination campaigns should focus on translating the high levels of stated acceptance into actual uptake. Messages highlighting vaccine efficacy and safety, delivered by healthcare workers, could be effective for addressing any remaining hesitancy in the analyzed LMICs.

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