

Summary of status of development and availability of variant¹ influenza A(H1) candidate vaccine viruses and potency testing reagents

Antigenic and genetic analyses are performed by the WHO Collaborating Centres of the Global Influenza Surveillance and Response System (GISRS). Unless otherwise indicated all candidate vaccine viruses posted on this table have passed two-way haemagglutination inhibition (HI) test. [National or Regional control authorities approve the composition and formulation of vaccines used in each country](#)

30 September 2020

Candidate vaccine viruses*

Antigenic prototype	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Ohio/24/2017 (H1N2)v	Wild type virus			CDC, USA
	IDCDC-RG59*	Reverse genetics	CDC, USA	CDC, USA
A/Ohio/9/2015 (H1N1)v	Wild type virus			WHO CCs
	IDCDC-RG48A*	Reverse genetics	CDC, USA	CDC, USA
A/Hunan/42443/2015 (H1N1)v	Wild type virus			WHO CCs
	CNIC-1601*	Conventional reassortant	CCDC, China	CCDC, China
A/Michigan/383/2018 (H1N2)v	Wild type virus			WHO CCs
	IDCDC-RG58A*	Reverse genetics	CDC, USA	CDC, USA

*These viruses are candidate vaccine viruses which have passed relevant safety testing. They can be handled under BSL-2 enhanced containment².

Candidate vaccine viruses in preparation

Antigenic prototype	Type of virus or reassortant	Developing Institute	Status
A/Ohio/35/2017 (H1N2)v	Conventional reassortant	NIBSC	Pending
A/Iowa/32/2016 (H1N2)v	Reverse genetics	CDC, USA	Pending
A/Netherlands/3315/2016 (H1N1)v	Conventional reassortant	NIBSC	Pending
A/Hessen/47/2020 (H1N1)v	Conventional reassortant	NIBSC	Pending

¹ Joint FAO, OIE, WHO announcement of the standardization of influenza virus variants infecting humans: http://www.who.int/influenza/gisrs_laboratory/terminology_variant/en/

² <http://www.who.int/biologicals/publications/trs/areas/vaccines/influenza/Annex%205%20human%20pandemic%20influenza.pdf?ua=1>

Institutes contact details for candidate vaccine viruses orders/information:

CCDC: whocc-china@cnic.org.cn

CDC: dwentworth@cdc.gov (Subject: CVV request)

NIBSC: standards@nibsc.org or enquiries@nibsc.org

WHO CCs: http://www.who.int/influenza/gisrs_laboratory/collaborating_centres/list/en/

For other candidate vaccine viruses and potency testing reagents, please go to <http://www.who.int/influenza/vaccines/virus/en/>

For general enquiries, please contact gisrs-whohq@who.int