

## Summary of status of development and availability of variant<sup>1</sup> influenza A(H3N2) 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](#)

**28 February 2020**

### Candidate vaccine viruses\*

Antigenic prototype	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Minnesota/11/2010	Wild type virus			WHO CCs
	NYMC X-203*	Classical	NYMC, USA	CDC, USA NYMC, USA
	NYMC X-203A*	Classical	NYMC, USA	CDC, USA NYMC, USA
A/Indiana/10/2011	Wild type virus			WHO CCs
	NYMC X-213*	Classical	NYMC, USA	CDC, USA NYMC, USA
A/Ohio/28/2016	IDCDC-RG55C*	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 containment<sup>2</sup>.

### Candidate vaccine viruses in preparation

Antigenic prototype	Type of virus or reassortant	Developing Institute	Available from
A/Ohio/28/2016	Classical	NIBSC, UK	Pending
A/Ohio/13/2017-like	Reverse genetics	CDC, USA	Pending

### Institutes contact details for candidate vaccine viruses orders/information:

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

NIBSC: [standards@nibsc.org](mailto:standards@nibsc.org) or [enquiries@nibsc.org](mailto:enquiries@nibsc.org)

NYMC: [doris\\_bucher@nymc.edu](mailto:doris_bucher@nymc.edu)

WHO CCs: [http://www.who.int/influenza/gisrs\\_laboratory/collaborating\\_centres/list/en/](http://www.who.int/influenza/gisrs_laboratory/collaborating_centres/list/en/)

For general enquiries, please contact [gisrs-whohq@who.int](mailto:gisrs-whohq@who.int)

For other candidate vaccine viruses and potency testing reagents, please go to

<http://www.who.int/influenza/vaccines/virus/en/>

<sup>1</sup> Joint FAO, OIE, WHO announcement of the standardization of terminology for the variant A(H3N2) virus recently infecting humans at [http://www.who.int/influenza/gisrs\\_laboratory/terminology\\_ah3n2v/](http://www.who.int/influenza/gisrs_laboratory/terminology_ah3n2v/)

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