Declaration of Readiness for Immunization Interoperability

North Dakota Immunization Information System (NDIIS)

Technical Capacity for Interoperability with the NDIIS

The NDIIS currently supports the 2.5.1 release 1.5 version of the HL7 Implementation Guide for immunization messaging and its published addendum. North Dakota providers who wish to connect their electronic health record (EHR) system to the NDIIS and attest for the Centers for Medicare and Medicaid Services (CMS) Promoting Interoperability EHR Incentive Programs must demonstrate the ability to transmit HL7 2.5.1 version 1.5 messages. This requires a fully bi-directional exchange with query/response capability as well as the submission of VXU messages and handling of returned ACK messages. Additionally, immunization messaging requirements for EHRs to meet certification require that the EHR product be able to send the vaccine National Drug Code (NDC) for all administered vaccines. The method of transport for the HL7 messages is SOAP/HTTPS for real time transmission

HL7 Specifications for NDIIS interoperability with EHRs are available at:
https://www.health.nd.gov/immunize/ndiis/interoperability

Interoperability Component	NDIIS Requirement
Method of Transport (NDIIS direct connection)	SOAP/HTTPS
HL7 Message Version	2.5.1 release 1.5
Messaging Requirements	QBP/RSP
	VXU/ACK
Additional Requirements	NDC code for all administered vaccinations
	CVX code for historical and administered vaccinations
	Dose-level VFC eligibility (OBX 5)
	Vaccine Funding Source (OBX 5)

Administrative Capacity for Interoperability with the NDIIS

The NDIIS is currently connected to more than 450 individual provider locations, the North Dakota state-wide health information exchange (HIE), the North Dakota Health Information Network (NDHIN) and the North Dakota disease surveillance system, Maven. Future interoperable connections will be prioritized based on volume and EHR readiness. Volume is determined by the number immunizations given. EHR readiness is determined by the ability of the provider EHR to send HL7 2.5.1 version 1.5 messages that includes query/response functionality, as well as sending NDC for administered immunizations, CVX code for all immunizations (historical and administered), dose-level VFC eligibility, and vaccine funding source. If a provider EHR does not meet the readiness requirements for the NDIIS connection, a lower volume provider may be moved up the list.

Providers wishing to connect to the NDIIS may connect directly using SOAP web services transport and the standard CDC WSDL or via a VPN connection or SOAP web services with the NDHIN.

Providers interested in establishing an interoperable connection with the NDIIS must complete and submit an NDIIS Registration of Intent form and Roles and Responsibilities Matrix at: https://www.health.nd.gov/immunize/ndiis/interoperability. Completed forms should be sent to the NDIIS Manager, Mary Woinarowicz at mary.woinarowicz@nd.gov.

Additional Information:

Additional information is available at https://www.health.nd.gov/immunize/ndiis/interoperability.