

Arizona HL7 Specific Rules for Version 2.5.1

Covid-19 HL7 Reporting Notes

Vaccine name	Short Description	CVX Code
Pfizer COVID-19 Vaccine	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose	208
Moderna COVID-19 Vaccine	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5 mL dose	207

VFC and Funding Source

VFC Eligibility Code should be V01 (non VFC Eligible)

OBX|1|CE|64994-3^VACCINE FUNDING PROGRAM ELIGIBILITY CATEGORY^LN|1|V01|||||F|||20201216

Funding Source should be VXC50 (Public, not VFC)

OBX|2|CE|30963-3^Funds vaccine purchased with^LN|1|VXC50|||||F|||20201216

Priority Group

Group	Value
Tier 1	LA31231-6
Tier 2	LA31232-5
Tier 3	LA31233-2
Tier 4	LA31234-0

Priority Group OBX Segment

OBX|3|CE|95793-6^Priority Group^LN||LA31231-6|||||F|||20201210|||||||

Race and Ethnicity are now required fields in the PID segment

	Value	Description
PID -10 Race	1002-5	American Indian or Alaska Native
	2028-9	Asian
	2076-8	Native Hawaiian or Other Pacific Islander
	2054-5	Black or African-American
	2106-3	White
	2131-1	Other Race

	Value	Description
PID-22 Ethnicity Group	2135-2	Hispanic or Latino
	2186-5	not Hispanic or Latino
	U	Unknown

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The following specifications and rules supersede CDC and general HL7 guidelines when sending messages to the Arizona Immunization Program. Otherwise CDC and general HL7 guidelines apply.

- MSH.1 – **Field Separator** will be the pipe | identified as (ASCII 24)
- MSH.2 – **Encoding Characters** will be ^~\& identified as (ASCII 94, ASCII 126, ASCII 92, ASCII 38) respectively.
- MSH.3 – **Sending Application** is **required** and shall be the pre-share name of the application that is generating this message. This field is filtered and new values must be preloaded.
- MSH.4 – **Sending Facility** is **required** and shall be the **IRMS Id** assigned and provided by the ASIIS System.
- MSH.5 – **Receiving Application** is **required** and shall always be **ASIIS**.
- MSH.6 – **Receiving Facility** is **required** and shall always be **ASIIS**.
- MSH.7 – **Date/Time of Message** is **required** and shall be in the following format (YYYYMMDDHHMMSS) and have a degree of precision to the minute generated.
- MSH.9 – **Message Type** is **required** and shall be **VXU^V04^** for Unsolicited Vaccination Messages.
- MSH.10 – **Message Control Id** is **required** and shall be unique for each message attempt from a sending facility with a maximum of 20 characters.
- MSH.11 – **Processing ID** is **required** and because the ASIIS system has separate points for sending test and production messages it is acceptable for a test message to contain a **P** in this field. This must not be a **T** if you want vaccinations to post to ASIIS.
- MSH.12 – **Version Id** is **required** and shall contain the version of the message being sent.
- PID.3 – **Patient Identifier List** is **required** and shall contain the **Patient Medical Record Number** in parts 1 and the number type identifier of **MR** in parts 5 pursuant to the CX DataTypes formats. Social Security Number should reside here with the SS identifier.
- PID.5 – **Patient Name** is **required** and shall be follow the XPN DataTypes definition rules.
- PID.7 – **Date/Time of Birth** is **required** and shall be in the following format (YYYYMMDD) and have a degree of precision to the day.
- PID.8 – **Administrative Sex** is **required** and must be either F, M, U or O.
- PID.11 – **Patient Address** is **required**

- **Zip Code can be either 5 digit or 9 digit with or without a dash (i.e. 85000 or 850004000 or 85000-4000)**

- PID.19 – PID-19 field was retained for backward compatibility only as of v2.3.1 and was withdrawn and removed from this message structure as of v2.7. It is recommended to use PID-3 - Patient Identifier List for all patient identifiers.
- PD1.3 – Patient Primary Facility is not currently required
- PD1.12 – **Protection Indicator** must be set to N for patients 19 and over for information to be accepted into ASIIS.
- PD1.13 – **Protection Indicator Effective Date** is the effective date of the Protection Indicator.
- PD1.16 – **Immunization Registry Status** must be **BLANK** or **“A”**.
- NK1 – Required if patient is under 19 years.
- ORC.1 – **Order Control** is **required** and shall contain **RE**.
- RXA.1 – **Give Sub-Id Counter** is **required** and shall be zero (**0**).
- RXA.2 – **Administration Sub-Id Counter** is **required** and shall be valued as one (**1**).

From HL7 2.5.1 Implementation Guide 1.4:

Note that RXA-2 is NOT used to indicate dose number, as it had in the past Guide. It is constrained to have a value of 1.

- RXA.3 – **Date/Time Start of Administration** is **required** in the following format (YYYYMMDD).
- RXA.4 – **Date/Time End of Administration** is **required** in the following format (YYYYMMDD).
- RXA.5 – **Administered Code** is **required** and shall be reported using **CVX Codes** to qualify for meaningful use using the codes and descriptions from the CVX tables in accordance to the CE DataTypes format.
- **Must make sure that single digit CVX codes contain a lead zero.**
- RXA.6 – **Administered Amount** is **required** and shall be reflected in a numerical value.
- RXA.7 – **Administered Units** is a conditional (CDC rules apply for use of this field).
- RXA.9 – **Administration Notes** is conditional is **00** reflecting the reporting of **New Immunizations** and **01** reflecting the reporting of **Historical immunizations**.

- RXA.10 – **Administering Site** is optional
- RXA.11.4 – **Administered Location** is **required** and shall contain the Facility ID of the site administering the immunization.
- RXA.15 – **Substance Lot Number** is conditional and may remain empty if the dose is from a historical record.
- RXA.16 – **Substance Expiration Date** is conditional and may remain empty if the dose is from a historical record.
- RXA.17 – **Substance Manufacturer Name** is optional and should reflect the codes and names provided in the MVX tables in accordance to the CE DataTypes
- RXA.20 – **Completion Status** is **required** but may be empty.
- RXA.21 – **Action Code** is conditional and shall be an **A** or **left blank**.
- RXR.1 – **Route** is **required** and shall use codes from the FDA List or the HL70162 ValueSet table. Systems should be prepared to accept either code.
- RXR.2 – **Administration Site** is **required** but may be empty using codes from the HL70163 ValueSet table.
- OBX.1 – **Set Id** is **required** and shall reflect the sequence series as associated with the RXA.
- OBX.2 – **Value Type** is **required** and shall be CE.
- OBX.3 – **Observation Identifier** is **required** and the first sequence should use “30963-3^Vaccine purchased with ^LN” from the LOINC table in order to reflect how the vaccine was purchased in OBX.5. This is the **VACCINE FUNDING SOURCE Identifier Description**. OBX.5 will contain the **FUNDING SOURCE**.
- The second sequence it should be used to reflect the VFC Status i.e. (64994-7^funding pgm elig^LN) reflecting the proper status in the OBX.5 field. This is the **VACCINE FUNDING PROGRAM Identifier Description**. OBX.5 will contain the **FUNDING PROGRAM**.
- OBX.4 – **Observation Sub-Id** is **required** and is used to link specific observations together.
- OBX.5 – **Observation Value** is **required** and the first sequence should be either PBF for Public funding or PVF for Private funding as reflected in the NIP008 table. For the second sequence, values from the HL70064 value set shall be used.
- OBX.11 – **Observation Results Status** is **required** and shall be an F reflecting Final when reporting VFC eligibility.

OBX.14 – **Date/Time of Observation** is **required** to reflect the date of the observation with a format of (YYYYMMDD).

Optional segments such as **PV1, PV2, GT1, IN1, IN2, IN3, TQ1, TQ2** are not utilized by the Arizona Immunization Program in **HL7 Version 2.5.1** and will be ignored if included in the messages.