

VXU Message Requirements - Key

LINKS has three possible settings – Ignore, Warning, and Error - for various parts of VXU messages. This section will explain the three possible settings.

- **Ignore (✓)** = LINKS has no preference and will not react.
 - No ERR line will be generated, regardless if information is included or not.
 - LINKS may record the information if it is included correctly, depending on the field.
- **Warning (⚠)** = LINKS desires improvement to the data.
 - Fields/components set to Warning are orange rows in chart.
 - Information is usually still recorded.
 - ERR line with severity |W| will be generated in ACK Response message:

```
ERR||RXA^1^15^1|103^Table value not found^HL70357|W|||vaccination lot is unrecognized|
```

- **Error (✖)** = LINKS *requires* improvement to the data.
 - Fields/components set to Warning are red rows in chart.
 - Either the required segment or the entire message will be rejected and will *not* be recorded.
 - Providers in Production with a persistently high percentage of Error messages may be subject to review and a return to Test phase.
 - ERR line with severity |E| will be generated in ACK Response message:

```
ERR||100^Segment sequence error^HL70357|E|||vaccination funding source is missing - Message Rejected|
```

VXU Message Requirements - Chart

Patient - PID	✓	⚠	✖
...Patient 18 or under with no guardian submitted	●	○	○
Patient Gender - PID-8 - (Code Table: Administrative Sex)	✓	⚠	✖
...is missing (Default setting: Missing / Warn)	○	○	●
...is invalid	○	●	○
...is unrecognized	○	●	○

Patient First Name - PID-5.2		✓	⚠	✗
...is invalid	(Default setting: Warn)	☒	☐	☐
...is truncated		☐	☒	☐
Patient Last Name - PID-5.1		✓	⚠	✗
...is invalid	(Default setting: Warn)	☒	☐	☐
...is truncated		☐	☒	☐
Patient Middle Name - PID-5.3		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid		☐	☒	☐
...is truncated		☐	☒	☐
Patient Mother's Maiden Name - PID-6		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
Patient Address Street - PID-11.1		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☐	☐	☒
...is invalid		☐	☒	☐
Patient Address Street2 - PID-11.2		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
Patient Address City - PID-11.3		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☐	☐	☒
Patient Address Country - PID-11.6 - (Code Table: Country)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
...is unrecognized	(Default setting: Warn)	☒	☐	☐
Patient Address County - PID-11.9 - (Code Table: County)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid		☐	☒	☐
...is unrecognized	(Default setting: Warn)	☒	☐	☐

Patient Address State - PID-11.4 - (Code Table: State)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is invalid		●	●	●
...is unrecognized		●	●	●
Patient Address Zip - PID-11.5		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is invalid	(Default setting: Warn)	●	●	●
Patient Alias - PID-9		✓	⚠	✗
...is missing	(Default setting: Warn)	●	●	●
...is invalid	(Default setting: Warn)	●	●	●
Patient Alias First - PID-9.2		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is invalid	(Default setting: Warn)	●	●	●
Patient Alias Last - PID-9.1		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is invalid	(Default setting: Warn)	●	●	●
Patient Alias Middle - PID-9.3		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is invalid	(Default setting: Warn)	●	●	●
Patient Multiple Birth Indicator - PID-24 - (Code Table: Multiple Birth Indicator)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is unrecognized		●	●	●
Patient Birth Order - PID-25		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	●
...is unrecognized		●	●	●
... Birth Order and Birth Indicator are inconsistent		●	●	●

Patient Death Date - PID-29		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
...is in the future	(Default setting: Warn)	☒	☐	☐
...is before the vaccination date	(Default setting: Warn)	☒	☐	☐
...is before the patient's date of birth	(Default setting: Warn)	☒	☐	☐
Patient Ethnicity - PID-22 - (Code Table: Ethnicity)		✓	⚠	✗
...is missing	(Default setting: Missing / Ignore)	☐	☐	☒
...is invalid		☒	☐	☐
...is unrecognized		☒	☐	☐
Patient Medicaid Number - PID-3		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
Patient SSN - PID-3, PID-19		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
Patient Primary Language - PID-15		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is deprecated	(Default setting: Warn)	☒	☐	☐
...is unrecognized	(Default setting: Warn)	☒	☐	☐
Patient Phone Number - PID-13		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☐	☐	☒
...is invalid		☐	☒	☐
Patient Primary Facility Id - PD1-3.3 - (Code Table: Facility ID)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☐	☐	☒
...is invalid	(Default setting: Warn)	☐	☐	☒
...is unrecognized	(Default setting: Warn)	☐	☐	☒
Patient Primary Facility Name - PD1-3.1		✓	⚠	✗
...is missing		☐	☒	☐

Patient Primary Physician Id - PD1-4.1 - (Code Table: Physician ID)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
...is unrecognized	(Default setting: Warn)	ⓘ	○	○
Patient Publicity Code - PD1-11 - (Code Table: Publicity Code)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is unrecognized	(Default setting: Warn)	ⓘ	○	○
Patient Race - PID-10 - (Code Table: Race)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	●	●	ⓘ
...is invalid		●	ⓘ	●
...is unrecognized	(Default setting: Warn)	ⓘ	○	○
Patient Immunization Registry Status - PD1-16		✓	⚠	✗
...is missing		●	ⓘ	●
Patient VFC Status - PV1-20.1 - (Code Table: VFC Status)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
...is unrecognized	(Default setting: Warn)	ⓘ	○	○
Patient Consent - PD1-12 - (Code Table: Consent)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
...is unrecognized	(Default setting: Warn)	ⓘ	○	○
Patient Birth Country - PID-11.6 - (Code Table: Country)		✓	⚠	✗
...is missing		ⓘ	○	○
...is invalid		ⓘ	○	○
...is unrecognized		ⓘ	○	○
Patient Nationality - PID-28 - (Code Table: Country)		✓	⚠	✗
...is missing		ⓘ	○	○
...is invalid		ⓘ	○	○
...is unrecognized		ⓘ	○	○

Patient Campaign - OBX			
...is missing			
...is invalid			
...is unrecognized			
...is missing population group or tier			
...is with an invalid population group or tier			
...is with an unrecognized population group or tier			
Patient Home Phone Telecommunication Use Code - PID-13.2 - (Code Table: Telecommunication Use Code)			
...is missing (Default setting: Missing / Ignore)			
...is invalid (Default setting: Ignore)			
...is unrecognized (Default setting: Ignore)			
Patient Business Phone Telecommunication Use Code - PID-14.2 - (Code Table: Telecommunication Use Code)			
...is missing			
...is invalid			
...is unrecognized			
Patient Name Type Code - PID-5.7			
...is missing			
...is invalid			
Vaccination Patient Vaccinations Quantity - RXA			
...is missing (Default setting: Warn)			
...exceeds 10 (Default setting: Warn)			
Vaccination - RXA			
...is historical; with same encounter submission date (Default setting: Warn)			
...is not recorded as a single vaccination event (Default setting: Warn)			
Vaccination Date - RXA-3			
...is invalid (Default setting: Warn)			
...is after the lot expiration date			
...was more than 30 days ago (Default setting: Warn)			
...is after the patient's death date			

Vaccination ID - ORC-3	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	ⓘ	○	○
...is not unique (Default setting: Warn)	ⓘ	○	○
Vaccination Action Code - RXA-21	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	ⓘ	○	○
Vaccination Administered Amount With Unit - RXA-6, RXA-7	✓	⚠	✗
...is missing	ⓘ	○	○
Vaccination NDC Number - RXA-5.1, RXA-5.4 - (Code Table: NDC)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	○	ⓘ	○
...is unrecognized	○	ⓘ	○
Vaccination CPT Code - RXA-5.1, RXA-5.4 - (Code Table: CPT)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	ⓘ	○	○
...is invalid (Default setting: Warn)	ⓘ	○	○
...is unrecognized (Default setting: Warn)	ⓘ	○	○
Vaccination CVX Code - RXA-5.1, RXA-5.4 - (Code Table: CVX)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	○	○	ⓘ
...is invalid (Default setting: Warn)	○	○	ⓘ
...is unrecognized (Default setting: Warn)	○	○	ⓘ
...CVX and CPT codes are inconsistent	○	ⓘ	○
...CVX and NDC codes are inconsistent (Default setting: Ignore)	○	ⓘ	○
Vaccination Completion Status - RXA-20 - (Code Table: Completion Status)	✓	⚠	✗
...is missing	○	ⓘ	○
...is unrecognized	○	ⓘ	○
...is inconsistent with refusal reason	○	ⓘ	○
Vaccination Facility ID - RXA-11.4, RXA-11.1, MSH-4.1, MSH-4.2 - (Code Table: Facility ID)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	○	○	ⓘ
...is invalid (inactivated in the IIS); on an administered vaccination (Default setting: Warn)	○	○	ⓘ
...is invalid (inactivated in the IIS); on a historical vaccination	○	ⓘ	○
...is unrecognized; on an administered vaccination	○	ⓘ	○
...is unrecognized; on a historical vaccination	○	ⓘ	○
...exceeds maximum length	○	ⓘ	○

Vaccination Information Source - RXA-9 - (Code Table: Immunization Information Source)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is unrecognized		ⓘ	○	○
Vaccination VIS Publication Date - OBX-5		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
...is in the future	(Default setting: Warn)	ⓘ	○	○
...is after the vaccination date	(Default setting: Warn)	ⓘ	○	○
Vaccination VIS Barcode - OBX-5 - (Code Table: VIS Barcode)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
...is unrecognized	(Default setting: Warn)	ⓘ	○	○
Vaccination VIS Given Date - OBX-5		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	○	○	ⓘ
...is invalid		○	ⓘ	○
...is in the future		○	ⓘ	○
Vaccination Lot - RXA-15 - (Code Table: Lot Number)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	○	○	ⓘ
...is invalid		○	ⓘ	○
...is unrecognized		○	ⓘ	○
...does not match manufacturer code		○	ⓘ	○
...does not match funding source		○	ⓘ	○
...does not match expiration date		○	ⓘ	○
...does not match vaccine group		○	ⓘ	○
Vaccination Lot Expiration Date - RXA-16		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Vaccination Manufacturer - RXA-17 - (Code Table: MVX)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	○	○	ⓘ
...is invalid	(Default setting: Warn)	○	○	ⓘ
...is unrecognized	(Default setting: Warn)	○	○	ⓘ

Vaccination VFC Status - OBX-5 - (Code Table: VFC Status)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
...is invalid	●	●	●
...is unrecognized	●	●	●
Vaccination Funding Source - OBX-5 - (Code Table: Funding Source)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
...is invalid	●	●	●
...is unrecognized	●	●	●
...VFC Eligibility and Funding Source are inconsistent (Default setting: Warn)	●	●	●
Vaccination Entering Organization - ORC-17.1	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
Vaccination Ordering Provider - ORC-12 - (Code Table: Physician ID)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
...is invalid (Default setting: Warn)	●	●	●
...is unrecognized (Default setting: Warn)	●	●	●
Vaccination ID of Vaccinator - RXA-10 - (Code Table: Physician ID)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
...is invalid (Default setting: Warn)	●	●	●
...is unrecognized (Default setting: Warn)	●	●	●
Vaccination Route - RXR-1 - (Code Table: Route)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
...is invalid (Default setting: Warn)	●	●	●
...is unrecognized (Default setting: Warn)	●	●	●
Vaccination Anatomical Site - RXR-2 - (Code Table: Anatomical Site)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	●	●	●
...is invalid (Default setting: Warn)	●	●	●
...is unrecognized (Default setting: Warn)	●	●	●
Vaccination Campaign - OBX	✓	⚠	✗
...is missing	●	●	●
...is invalid	●	●	●
...is unrecognized	●	●	●
...is missing population group or tier	●	●	●
...is with an invalid population group or tier	●	●	●
...is with an unrecognized population group or tier	●	●	●

Deferral Substance Refusal Reason - RXA-18 - (Code Table: Refusal Reason)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is unrecognized	☐	☒	☐
Deferral Substance Refusal Date - RXA-3	✓	⚠	✗
...is missing	☐	☒	☐
...is invalid	☐	☒	☐
...is after the lot expiration date	☐	☒	☐
...was more than 30 days ago	☐	☒	☐
...is after the patient's death date	☐	☒	☐
Next of Kin First Name - NK1-2.2	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☐	☐	☒
...is invalid	☐	☒	☐
Next of Kin Middle Name - NK1-2.3	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is invalid (Default setting: Warn)	☒	☐	☐
Next of Kin Last Name - NK1-2.1	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is invalid (Default setting: Warn)	☒	☐	☐
Next of Kin Phone - NK1-5	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is invalid (Default setting: Warn)	☒	☐	☐
Next of Kin Address County - NK1-4.9 - (Code Table: County)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is invalid (Default setting: Warn)	☒	☐	☐
...is unrecognized (Default setting: Warn)	☒	☐	☐
Next of Kin Relationship - NK1-3 - (Code Table: Relation)	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is invalid (Default setting: Warn)	☒	☐	☐
...is unrecognized (Default setting: Warn)	☒	☐	☐
Next of Kin SSN - NK1-33	✓	⚠	✗
...is missing (Default setting: Missing / Warn)	☒	☐	☐
...is invalid (Default setting: Warn)	☒	☐	☐

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Guardian First Name - NK1-2.2		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian Middle Name - NK1-2.3		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian Last Name - NK1-2.1		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian Phone Number - NK1-5		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian Address Street - NK1-4.1		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian Address Street2 - NK1-4.2		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
Guardian Address City - NK1-4.3		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian Address State - NK1-4.4		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Guardian SSN - NK1-33		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
Message Header Sending Facility - MSH-4.1, MSH-4.2		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
Contraindication Concept Code - OBX-5 - (Code Table: Contraindication and Presumed Immunity)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	ⓘ	○	○
...is invalid	(Default setting: Warn)	ⓘ	○	○
...is unrecognized	(Default setting: Warn)	ⓘ	○	○

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Contraindication Observation Date - OBX-14		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
...is in the future	(Default setting: Warn)	☒	☐	☐
...is before the patient's date of birth	(Default setting: Warn)	☒	☐	☐
Contraindication Effective Date - OBX-12		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
...is before the patient's date of birth	(Default setting: Warn)	☒	☐	☐
Contraindication Expiration Date - OBX-19		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
...is before the patient's date of birth	(Default setting: Warn)	☒	☐	☐
Insurance Company - IN1-3 - (Code Table: Insurance Company ID)		✓	⚠	✗
...is missing	(Default setting: Missing / Warn)	☒	☐	☐
...is invalid	(Default setting: Warn)	☒	☐	☐
...is unrecognized	(Default setting: Warn)	☒	☐	☐