

Frequently Asked Questions and Answers for the Trichinellosis Case Notification Message Mapping Guide (MMG)

OVERVIEW

The trichinellosis Health Level 7 (HL7) case notification message has two components, (i) the Generic Version 2 (GenV2) data elements, which are part of all case notification messages, and (ii) the data elements specific to trichinellosis. The trichinellosis message mapping guide (MMG) describes the content (e.g., data elements and valid values) and message mapping specifications to send trichinellosis HL7 case notifications to CDC. This frequently asked questions (FAQ) document will provide technical guidance and additional instructions for the submission of cases.

In preparation to onboard for trichinellosis HL7 reporting, please review the guidance within the CDC NNDSS (National Notifiable Diseases Surveillance System) Technical Resource Center (<https://www.cdc.gov/nndss/trc/index.html>) on the implementation of MMGs and preparations for onboarding. Below are the high-level steps jurisdictions should do prior to initiating the onboarding process:

- ✓ Perform the gap analysis.
- ✓ Complete the implementation spreadsheet and test case scenario worksheet.
- ✓ Prepare the test case scenario messages.
- ✓ **Submit year-to-date (YTD) records in the legacy format (case report form or flat file) to the CDC trichinellosis program prior to the onboarding kickoff call.**

Onboarding for trichinellosis HL7 case notification implementation is a collaborative process among the jurisdiction, CDC trichinellosis program, and the NNDSS Onboarding team. If you have any onboarding or technical questions or would like to request technical assistance, please email edx@cdc.gov with the subject "Technical Assistance." The CDC trichinellosis program (nox7@cdc.gov) can answer any programmatic and surveillance questions about the MMG.

FREQUENTLY ASKED QUESTIONS

Question: Which GenV2 data elements are especially important for trichinellosis surveillance?

Answer: In addition to the core priority 1 data elements in GenV2, the data elements in the table below are of key importance to national trichinellosis surveillance. The CDC trichinellosis program's disease-specific data element prioritization can be found within the trichinellosis MMG (<https://ndc.services.cdc.gov/mmgpage/trichinellosis-message-mapping-guide/>).

GenV2 Data Elements Most Important to the CDC Trichinellosis Program in Addition to Those with Priority 1			
PHIN Variable	Data Element Identifier Sent in HL7 Message	Data Element Name	Notes on Importance of the Data Element to the Trichinellosis Program
DEM154	32624-9	Other Race Text	This data element is important for trichinellosis program to understand cultural dietary preferences and predispositions for trichinellosis.
DEM126	78746-5	Country of Birth	This data element is important for trichinellosis program to understand cultural dietary preferences and predispositions for trichinellosis.
INV178	77996-7	Pregnancy Status	This data element is important for trichinellosis program to assess potential adverse outcomes for this risk group.
INV136	77975-1	Diagnosis Date	Please provide diagnosis date when available. This information is useful to evaluate the likelihood that exposure is attributable to trichinellosis.
INV134	78033-8	Duration of Hospital Stay in Days	This data element will provide information about the severity of disease.
INV152	77982-7	Case Disease Imported Code	This data element will provide information about the risk factors for trichinellosis.
INV153	INV153	Imported Country	This data element will provide information about the risk factors for trichinellosis and potentially inform prevention measures.
INV154	INV154	Imported State	This data element will provide information about the risk factors for trichinellosis and potentially inform prevention measures.
INV155	INV155	Imported City	This data element will provide information about the risk factors for trichinellosis and potentially inform prevention measures.
INV502	77984-3	Country of Exposure	This data element will provide information about the risk factors for trichinellosis and potentially inform prevention measures.
INV503	77985-0	State or Province of Exposure	This data element will provide information about the risk factors for trichinellosis.
NOT113	77967-8	Reporting County	This data element is important to the trichinellosis program for case follow-up.

DATA ELEMENT-SPECIFIC FAQs

Question 1: What is the process that CDC will take to validate messages during onboarding?

Answer 1: The CDC trichinellosis program will compare the submitted limited production messages and legacy case data to validate for total counts, completeness, and accuracy. CDC will validate year-to-date cases for total counts and completeness of data elements. If changes or updates were made to the case after the submission date, please inform CDC of data field changes. Additionally, review of the test case scenario messages will ensure that the repeating blocks and the new and updated data elements are properly received.

Question 2: What is the onboarding and validation process for jurisdictions with few to no cases in the last Morbidity and Mortality Weekly Report (MMWR) year?

Answer 2: The CDC trichinellosis program and CDC NNDSS Onboarding specialists recommend that the jurisdiction take full advantage of the test case scenarios by transmitting multiple fully populated messages. In addition, we will request that the jurisdiction send its most recent cases, if within the past 2 years. After the jurisdiction is moved into production and a case occurs, the jurisdiction should email edx@cdc.gov with the Subject “First Case of [Condition]” and copy the trichinellosis program to ensure that the data transmitted correctly.

Question 3: “State Case Identifier” (INV173), “Local Record ID” (OBR-3), and “Local Subject ID” (PID-3) are all included on the GenV2 MMG. Which data element takes priority?

Answer 3: The “Local Subject ID” (PID-3) and “Local Record ID” (OBR-3) are required data elements and must be submitted in the HL7 messages. It is the jurisdiction’s choice to send or not to send the “State Case Identifier” (INV173) in the trichinellosis message. Jurisdictions should notify the program if the “Local Subject ID” (PID-3) is not a person-level identifier.

Question 4: Are there any new or updated data elements compared to the paper case reporting system? Also, are there any new/updated value sets?

Answer 4: There are no new data elements. However, compared to the case report form, several data elements have been updated to capture multiple instances of the data elements in the form of a repeating block. The below list describes the new repeating blocks in the trichinellosis MMG.

Repeating Blocks	
Block Name	Element Names
Signs and Symptoms	Signs and Symptoms (56831-1), Signs and Symptoms Indicator (INV919)
Travel History	International Destination(s) of Recent Travel (82764-2), Travel State (82754-3), Date of Arrival to Travel Destination (TRAVEL06), Date of Departure from Travel Destination (TRAVEL07)
Food Exposure History	Suspect Meat Type (INV1009), Consumed Date (INV967), Meat Preparation (INV968), Where Meat Obtained (INV969), Cooking Method (INV970), Larva in Suspect Meat (INV971), Where Suspect Meat Tested (INV972), Meat Comments (INV973)
Occupation and Industry	Current Occupation (85658-3), Current Occupation Standardized (85659-1), Current Industry (85078-4), Current Industry Standardized (85657-5)
Epidemiology Laboratory	Test Type (INV290), Test Result (INV291), Test Result Quantitative (LAB628),

	Specimen Type (66746-9), Specimen Collection Date/Time (68963-8), Specimen Analyzed Date/Time (45375-3), Performing Laboratory Type (82771-7), Strain Type (LAB508)
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SPECIAL CASE SCENARIO FAQs

Question 5: Are there differences in required reporting of data elements depending on whether a subject traveled internationally versus domestically?

Answer 5: There are no differences in required reporting data elements for international versus domestic travel. The trichinellosis program requests that the jurisdiction provides pertinent information for travel within 8 weeks of symptom onset or diagnosis. Travel-related data elements requested by the CDC program differ by travel type indicated by the subject.

Requested Travel-Related Data Elements of Interest by Travel Type	
International Travel	Domestic Travel
Travel (420008001)	Travel (420008001)
International Destination(s) of Recent Travel (82764-2)	Travel State (82754-3)
Date of Arrival to Travel Destination (TRAVEL06)	Subject Address County (PID-11.9)
Date of Departure from Travel Destination (TRAVEL07)	Subject Address State (PID-11.4)
Country of Usual Residence (77983-5)	Subject Address ZIP Code (PID-11.5)
	Date of Arrival to Travel Destination (TRAVEL06)
	Date of Departure from Travel Destination (TRAVEL07)
	Country of Usual Residence (77983-5)
	Country of Exposure (77984-3)

Question 6: How should a jurisdiction report outbreak and/or cluster-related cases?

Answer 6: If suspected that the subject traveled outside of the residency state, refer to the special case above and include those elements in the message. To report cluster-related cases, use the Case Outbreak Indicator (77980-1) and Case Outbreak Name (77981-9).

Question 7: How should a jurisdiction notify CDC of a possible trichinellosis-related fatality case?

Answer 7: The CDC trichinellosis program requests that the jurisdiction includes “Subject Died (INV145),” “Deceased Date (INV146).” The comment field “Comment (77999-1)” can be used to include any pertinent death data such as cause of death information if available. If using the Comment field is a challenge for the jurisdiction, please contact the trichinellosis program. Additionally, please include this information in the implementation spreadsheet. Please report any fatal case to CDC as quickly as possible so that prompt follow-up can occur.

INSTRUCTIONS FOR SELECT TRICHINELLOSIS DATA ELEMENTS

An annotated trichinellosis case report form is available in the artifacts section here: <https://ndc.services.cdc.gov/mmgpage/trichinellosis-message-mapping-guide/>. Please refer to mapping guidance below for data elements not included in the annotated trichinellosis case report form.

Section 1: Demographic Data

- a) Subject's self-identified ethnicity (Ethnic Group, PID-22) and race (Race Category, PID-10; Other Race Text, 32624-9). Please consider the following guidance for completing the race information.

If jurisdiction is unable to send "Asked but Unknown," "No Information," "Not Asked," or "Refused to Answer," please select "Unknown."

Note: For analysis purposes, "Asked but Unknown," "No Information," "Not Asked," or "Refused to Answer" will be grouped with "Unknown."

Section 2: Signs and Symptoms

- a) Indicate whether the subject experienced any of the following signs or symptoms: eosinophilia, fever, periorbital edema, or myalgia. (Clinical Manifestation, INV919; Clinical Manifestation Indicator, INV930). Please provide "Yes," "No," or "Unknown" for each of the signs and symptoms.

Section 3: Epidemiologic Factors

- a) Please use the discrete value set for the patient's occupation when applicable (85659-1). If the patient's occupation isn't listed in the standardized value set, please specify using the occupation free text data element code (85658-3).
- b) Comments: (77999-1) Use this free text field, if needed, to communicate anything unusual or notable about this case that is not already covered with the other data elements.
- c) Enter the investigator name (Person Reporting to CDC – Name, 74549-7) and the date the form was completed. This is the person that CDC should contact if there are questions regarding this case notification.

REFERENCES

NNDSS Technical Resource Center - HL7 Message Mapping Guides & Standards:

<https://www.cdc.gov/nndss/trc/mmg/index.html>

Trichinellosis MMG and artifacts: <https://ndc.services.cdc.gov/mmgpage/trichinellosis-message-mapping-guide/>

NNDSS eSHARE training webinars: <https://www.cdc.gov/nndss/trc/onboarding/eshare.html>

Information about trichinellosis (trichinosis): <https://www.cdc.gov/parasites/trichinellosis/index.html>

Trichinellosis case report form (CRF):

<https://www.cdc.gov/parasites/trichinellosis/resources/pdf/547.pdf>

Trichinellosis case definition: <https://ndc.services.cdc.gov/case-definitions/trichinellosis-2014/>