Go.Data Metadata Overview

for Measles

Goal of this document:

To describe the metadata elements within the core modules of Go.Data when using the default template outbreak Measles. This template outbreak is aligned with the most up-to-date guidance from PAHO/WHO case investigation form (2019).

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For questions please email godata@who.int

Contents

Section 1. Background

Measles is a highly contagious, serious disease caused by a virus. Before the introduction of measles vaccine in 1963 and widespread vaccination, major epidemics occurred approximately every 2–3 years and measles caused an estimated 2.6 million deaths each year. More than 140 000 people died from measles in 2018 – mostly children under the age of 5 years, despite the availability of a safe and effective vaccine. Measles is caused by a virus in the paramyxovirus family and it is normally passed through direct contact and through the air. The virus infects the respiratory tract, then spreads throughout the body. Measles is a human disease and is not known to occur in animals.

This document presents with details the core components of Go.Data case creation including the case personal information, including location and address, epidemiology information, questionnaire and laboratory information. The last section is a demonstration of categorical data update in the Go.Data reference data section. Additionally, there is a section presenting the variables included in the creation of an event and a relationship between a case and exposures or contacts.

The personal information, epidemiology and laboratory sections are generic across all outbreaks for Go.Data. **The questionnaire section is strictly specific to Measles investigation and has been tailored to reflect relevant questions**.

Information not relevant to Measles should simply be ignored while collecting data.

NB: Your country/area's location data (with geographic coordinates) needs to be configured after installing Go.Data, in addition to some specific categorical data categories.

Additional documents and courses will support the adequate use of this document, including the Go.Data open WHO course, tutorial guide to update reference data, and the Go.Data User Guide.

Section 2. Personal

NOTE: Cases, Contacts and Contacts of contacts modules have the same variables in the Personal tab; It can be added as many addresses as needed.
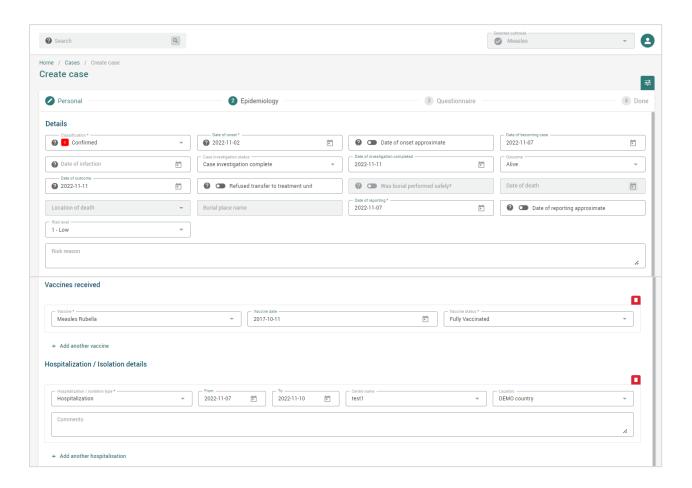

Data Elements – Personal (red indicates required field)

variable_code_godata	label	type	Notes, incl. relevance for EVD outbreak investigation
visualId	case or contact ID	freetext	Pattern for ID Masks set at the outbreak level.
firstName	First Name	freetext	
middleName	Middle Name	freetext	
lastName	Last Name	freetext	
age.years	Age - Months	numeric	Select Unit (Months or Years) from drop-down before entering number, then stored in database as age.years and age.months accordingly.
age.months	Age - Years	numeric	See above.
dob	Date of Birth	date	Option to enter dob or Age, but not both. If dob, calendar selector appears.
gender	Gender	Dropdown selector	SKIP LOGIC: If Female, Pregnancy variable appears.
pregnancyStatus	Pregnancy Status	Dropdown selector	Mapped to "Is the patient pregnant?" and "Weeks of pregnancy (01-42)"
occupation	Occupation	Dropdown selector	Option set configurable in reference data.
responsibleUserId	Assigned User	Dropdown selector	Select from drop-down list of existing users,
documents.type	Document type	Dropdown selector	Can use to capture other IDs like passport number, etc. Mapped to "Health Facility Case ID" for EVD investigation. Configure reference data to include this value (see Ref Data section).
documents.number	Document number	freetext	

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addresses.typeId	Address Type	Dropdown selector	Option set configurable in reference data. Default = Current Address. Must have at least one Current Address.
addresses.date	Address Date	date	
addresses.phoneNumber	Phone number	freetext	
addresses.emailAddress	Email address	freetext	
addresses.locationId	Location	Dropdown selector	Location drop-down, based on configured hierarchical reference data. Can select most granular level preferred.
addresses.city	City	freetext	
addresses.addressLine1	Address	freetext	Along with the address include the "Landmarks to locate the house"
addresses.postalCode	Postal code	freetext	
addresses.geoLocationAccurate	Coordinates are accurate	boolean	Toggle Switch to mark Yes or No (Default = NO) - in order to manually re-enter GPS vs. Using automatic GPS configured in Location Hierarchy.
geoLocationlat	Latitude	numeric	
geoLocation.lng	Longitude	numeric	

Section 3. Epidemiology

NOTE: It can be added as many hospitalizations/isolations as needed.

Data Elements – Epidemiology (red indicates required field)

variable_code_godata	label	type	Notes, incl. relevance for EVD outbreak investigation
classification	Case classification	Dropdown selector	
dateOfOnset	Date of onset	date	Individual symptom date of onsets included in Questionnaire for fever and rash.
isDateOfOnsetApproximate	Date of onset approximate	boolean	Toggle Switch to mark Yes or No.
dateBecomeCase	Date of becoming a case	date	
dateOfInfection	Date of infection	date	
Caseinvestigationsatus	Case investigation status		
dateOfinvestigationcompleted	Date of investigation completed	date	
outcomeId	Outcome	Dropdown selector	Option set configurable in reference data (SKIP LOGIC: If Deceased, Burial variables appear). Please complete this value with the status of patient at time of this case report and update this information at the time of patient recovery and discharge from the hospital OR at the time of patient death.
dateOfOutcome	Date of outcome	date	
transferRefused	Refused transfer to treatment unit	boolean	Toggle Switch to mark Yes or No.
dateOfdeath	Date of Death	date	
locationOfdeath	Location of death	Dropdown selector	Location drop-down, based on configured hierarchical reference data. Can select most granular level preferred.

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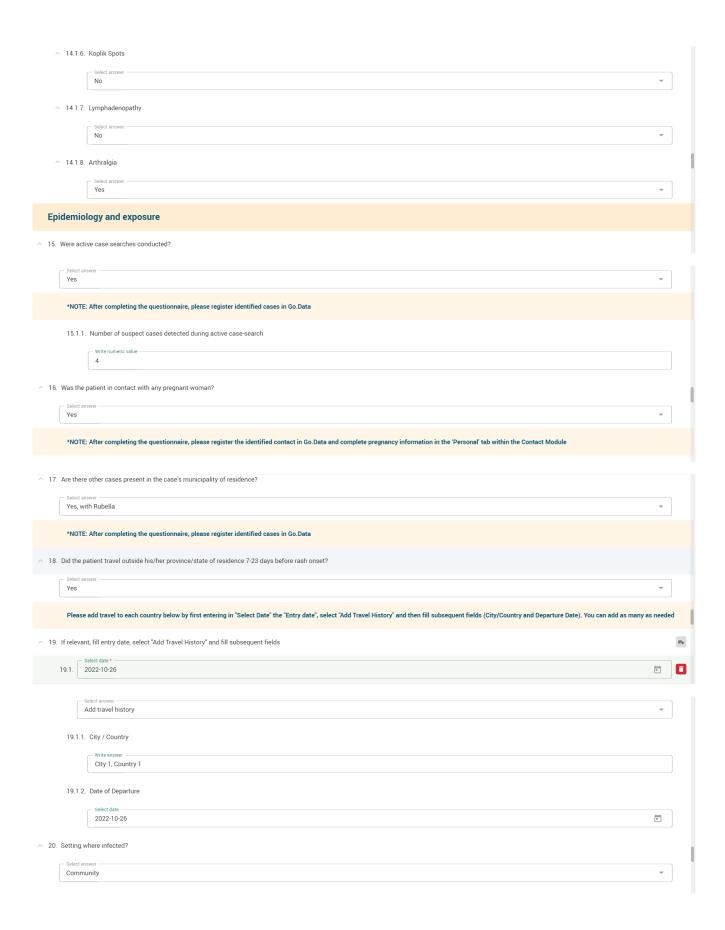|			
burialPlaceName	Burial Place Name	freetext	
dateOfReporting	Date of reporting	date	Mapped to "date reported, local" and "date reported, national"
isDateOfReportingApproximate	Date of reporting approximate	boolean	Toggle Switch to mark Yes or No.
riskLevel	Risk Level	Dropdown selector	Can configure reference data to specify exposure risk categories, default = high/med/low.
riskReason	Risk Reason	freetext	
vaccinesReceived.vaccine	Vaccine	Dropdown selector	Configure reference data to include Measles/Rubella vaccines (see Ref Data section).
vaccinesReceived.date	Vaccine date	date	Mapped to "Date of last dose"
vaccinesReceived.status	Vaccine status	Dropdown selector	Configure reference data to include vaccines number of doses (see Ref Data section).
dateRanges.typeId	Hospitalization/isolation type	Dropdown selector	Option set configurable in reference data. Mapped to "Hospitalized?"
dateRanges.centerName	Centre Name	Dropdown selector	Option set configurable in reference data.
dateRanges.locationId	Location of hospital/facility	Dropdown selector	Location drop-down, based on configured hierarchical reference data. Can select most granular level preferred.
dateRanges.comments	Comments	freetext	Mapped to "Hospital record number"
dateRanges.startDate	From (Date)	date	
dateRanges.endDate	To (Date)	date	

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Section 4. Questionnaire (Case Investigation)

NOTE: aligned with PAHO/WHO case investigation form (2019)

Search

Home / Cases / Modify Name 1 Last name 1

Modify Name 1 Last name 1 👁

Cancel   Quick actions ⌄   Save

Personal   Epidemiology   **Questionnaire**

Health Care Interactions

1. Initial diagnosis

   Select answer
   Measles

2. Reporting institution / Health service name

   Write answer
   Institution 1

3. Reporting institution / Health service telephone

   Write answer
   +99 999 9999

4. Type of provider reporting

   Select answer
   Public

5. Date of consultation

   Select date
   2022-11-02

6. Date of home visit

   Select date
   2022-11-03

7. Detected by

   Select answer
   Institutional search

Patient Information

8. Indicate household head or next of kin first and last name, if relevant

   Write answer
   Name 2 Last name 2

9. Indicate the type of locality where the patient lives

   Select answer
   Urban

10. Work or school address

    Write answer
    School address 99

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Clinical information

11. Vaccinated against Measles/Rubella

Select answer
Yes

*NOTE: After completing the questionnaire, please update case vaccination information in the "Epidemiology" tab within Case Module

11.1.1. Source of vaccination Information

Select answer
Vaccination card

12. If the patient is pregnant, indicate the place where the birth will likely take place (After completing the questionnaire, please update case pregnancy information in the "Personal" tab within Case Module)

Write answer
NA

13. If the patient is dead, indicate the primary cause of death (After completing the questionnaire, please update this information in the "Epidemiology" tab within the Case Module)

Write answer
NA

14. Does the case present/has any signs and symptoms?

Select answer
Yes

14.1.1. Fever

Select answer
Yes

14.1.1.1.1. Date of fever onset

Select date
2022-11-01

14.1.1.1.2. Please indicate the temperature

Write numeric value
38

14.1.2. Rash

Select answer
Yes

14.1.2.1.1. Duration of the rash (in days)

Write numeric value
5

14.1.2.1.2. Date of rash onset

Select date
2022-11-02

14.1.2.1.3. Type of rash

Select answer
Maculopapular

14.1.3. Cough

Select answer
Yes

14.1.4. Conjunctivitis

Select answer
Yes

14.1.5. Coryza

Select answer
No

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14.1.6. Koplik Spots

Select answer
No ▾

14.1.7. Lymphadenopathy

Select answer
No ▾

14.1.8. Arthralgia

Select answer
Yes ▾

Epidemiology and exposure

15. Were active case searches conducted?

Select answer
Yes ▾

*NOTE: After completing the questionnaire, please register identified cases in Go.Data

15.1.1. Number of suspect cases detected during active case-search

Write numeric value
4

16. Was the patient in contact with any pregnant woman?

Select answer
Yes ▾

*NOTE: After completing the questionnaire, please register the identified contact in Go.Data and complete pregnancy information in the 'Personal' tab within the Contact Module

17. Are there other cases present in the case's municipality of residence?

Select answer
Yes, with Rubella ▾

*NOTE: After completing the questionnaire, please register identified cases in Go.Data

18. Did the patient travel outside his/her province/state of residence 7-23 days before rash onset?

Select answer
Yes ▾

Please add travel to each country below by first entering in "Select Date" the "Entry date", select "Add Travel History" and then fill subsequent fields (City/Country and Departure Date). You can add as many as needed

19. If relevant, fill entry date, select "Add Travel History" and fill subsequent fields

19.1.
Select date *
2022-10-26 📅 🗑

Select answer
Add travel history ▾

19.1.1. City / Country

Write answer
CIty 1, Country 1

19.1.2. Date of Departure

Select date
2022-10-26 📅

20. Setting where infected?

Select answer
Community ▾

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21. Ring vaccination?

Select answer
Yes ▾

21.1.1. Date started

Select date
2022-11-03 📅

21.1.2. Date ended

Select date
2022-11-04 📅

21.1.3. Number of doses given during ring vaccination

Write numeric value
30

22. Was rapid coverage monitoring done?

Select answer
Yes ▾

22.1.1. What percentage of vaccinated persons was found?

Write numeric value
90

Outcome/Status

23. FINAL CLASSIFICATION

Select answer
Measles ▾

24. Basis for confirmation

Select answer
Laboratory ▾

25. Basis for discarding

Select answer ▾

26. For confirmed cases, source of infection

Select answer
Unknown source ▾

27. Classified by

Write answer
Technical officer 1

28. Date of final classification

Select date
2022-11-14 📅

LEGEND ≣₊ Add answer 🗑 Remove ⬇ Download ⬆ Browse

Data Elements – Questionnaire (red indicates required field)

variable_code_godata	Label - EN	type	Notes
initial_diagnosis	Initial Diagnosis	single_answer	OPTIONS = Measles; Rubella; Dengue; Other rash illness; Other non-rash illness; Unknown
hcs_name	Reporting institution / Health service name	freetext	
hcs_telephone	Reporting institution / Health service telephone	freetext	
provider_type	Type of provider reporting	single_answer	OPTIONS = Public; Private; Other / Includes nested questions
consultation_date	Date of consultation	date/time	
homevisit_date	Date of home visit	date/time	
detected_by	Detected by	single_answer	OPTIONS = Spontaneous consultation; Laboratory; Institutional Search; Community Case Search; Contact investigation; Community Report; Other; Unknown
provider_specify	IF OTHER: Specify	freetext	
HH_Next_of_kin	Indicate household head or next of kin first and last name, if relevant	freetext	
locality_type	Indicate the type of locality where the patient lives	single_answer	OPTIONS = Urban; Periurban; Rural
work_school_address	Work or school address	freetext	
vaccination_status	Vaccinated against Measles/Rubella	single_answer	OPTIONS = yes; no; unk / Includes nested questions
	If yes, display markup: *NOTE: After completing the questionnaire, please update case vaccination information in the "Epidemiology" tab within Case Module		
vaccination_source	IF YES: Source of vaccination Information	single_answer	OPTIONS = Vaccination card; Health service record; Verbal
brith_place	If the patient is pregnant, indicate the place where the birth will likely take place	freetext	
cause_of_death	If the patient is dead, indicate the primary cause of death (After completing the questionnaire, please update this information in the "Epidemiology" tab within the Case Module)	freetext	
signs_and_symptoms	Does the case present/has any signs and symptoms?	single_answer	OPTIONS = yes; no; unk / Includes nested questions
symp_fever	IF YES: Fever	single_answer	OPTIONS = yes; no; unk / Includes nested questions
fever_onset	IF YES: Date of fever onset	date/time	
fever_temp	IF YES: Please indicate the temperature	numeric	
symp_rash	IF YES: Rash	single_answer	OPTIONS = yes; no; unk / Includes nested questions
rash_duration	IF YES: Duration of the rash (in days)	numeric	
rash_onset	IF YES: Date of rash onset	date/time	
rash_type	IF YES: Type of rash	single_answer	OPTIONS = Maculopapular; Vesicular; Other; Unk
symp_cough	IF YES: Cough	single_answer	OPTIONS = yes; no; unk
symp_conjunctivitis	IF YES: Conjunctivitis	single_answer	OPTIONS = yes; no; unk
symp_coryza	IF YES: Coryza	single_answer	OPTIONS = yes; no; unk
symp_koplik_spots	IF YES: Koplik Spots	single_answer	OPTIONS = yes; no; unk
symp_lymphadenopathy	IF YES: Lymphadenopathy	single_answer	OPTIONS = yes; no; unk
symp_arthralgia	IF YES: Arthralgia	single_answer	OPTIONS = yes; no; unk
active_searches	Were active case searches conducted?	single_answer	OPTIONS = yes; no; unk / Includes nested questions
	If yes, display markup: *NOTE: After completing the questionnaire, please register identified cases in Go.Data		
suspected_cases_detected	Number of suspect cases detected during active case-search	numeric	
contact_pregnant_woman	Was the patient in contact with any pregnant woman?	single_answer	OPTIONS = yes; no; unk / Includes nested questions
	If yes, display markup: *NOTE: After completing the questionnaire, please register the identified contact in Go.Data and complete pregnancy information in the 'Personal' tab within the Contact Module		
additional_cases	Are there other cases present in the case's municipality of residence?	single_answer	OPTIONS = yes, with Measles; yes, Rubella; yes, with both; no; unk
	If yes, display markup: *NOTE: After completing the questionnaire, please register identified cases in Go.Data		
expo_travel	Did the patient travel outside his/her province/state of residence 7-23 days before rash onset?	single_answer	OPTIONS = yes; no; unk / Includes nested questions
	If yes, display markup: Please add travel to each country below by first entering in "Select Date" the "Entry date", select "Add Travel History" and then fill subsequent fields (City/Country and Departure Date). You can add as many as needed		
travel_history	If relevant, fill entry date, select "Add Travel History" and fill subsequent fields	single_answer	Add travel history

city_country	*IF ADD TRAVEL HISTORY: City / Country*	single_answer	
departure_date	*IF ADD TRAVEL HISTORY: Date of Departure*	single_answer	
Setting_where_infected	Setting where infected?	single_answer	OPTIONS = Household contact; Community; Health Center; Unknown; Others
ring_vaccination	Ring vaccination?	single_answer	OPTIONS = yes; no; unk / Includes nested questions
date_started	*IF YES: Date started*	date/time	
date_ended	*IF YES: Date ended*	date/time	
ring_vacc_dosis	*IF YES: Number of doses given during ring vaccination*	Numeric	
rapid_coverage_monitoring	Was rapid coverage monitoring done?	single_answer	OPTIONS = yes; no; unk / Includes nested questions
rcm_vaccination_percentage	*IF YES: What percentage of vaccinated persons was found?*	Numeric	
final_classification	FINAL CLASSIFICATION	single_answer	OPTIONS = Measles; Rubella; Discarded
basis_for_confirmation	Basis for confirmation	single_answer	OPTIONS = Laboratory; Epidemiological Link; Clinical
basis_for_discarding	Basis for discarding	single_answer	OPTIONS = Measles/Rubella IgM-neg; Vaccine Reaction; Dengue; Parvovirus B19; Herpes 6; Allergic Reaction; Other Diagnosis / Includes nested questions
please_specify	IF Other Diagnosis: Please specify	Freetext	
source_of_infection	For confirmed cases, source of infection	single_answer	OPTIONS = Imported; Import-Related; Unknown source; Endemic / Includes nested questions
I_importing_country	*IF IMPORTED: Country of importation*	freetext	
IR_importation_country	*IFIMPORT-RELATED: Country of importation*	freetext	
classified_by	Classified by	freetext	
Final_classification_date	Date of final classification	date/time	

Section 5. Laboratory

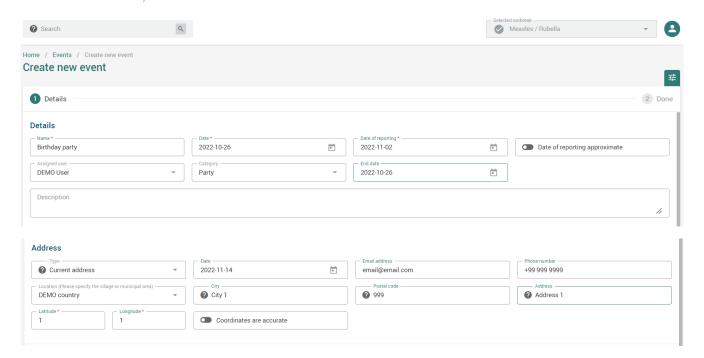*Add Lab details to a case/contact record (can also be bulk uploaded by lab personnel):*

Data Elements – Laboratory (red indicates required field)

variable_code_godata	label	type	Notes
sampleIdentifier	Sample Lab ID	freetext	
dateSampleTaken	Date sample taken	date	
dateSampleDelivered	Date sample delivered to lab	date	
dateTesting	Date sample tested	date	
dateOfResult	Date of the result	date	
labName	Lab name	Dropdown selector	Option set configurable in reference data.
sampleType	Sample type	Dropdown selector	Option set configurable in reference data. Configure reference data to include the specific *sample type* collected for Measles/Rubella (see Ref Data section).
testType	Test type	Dropdown selector	Option set configurable in reference data. Option set configurable in reference data. Configure reference data to include the specific *test type* for Measles/Rubella (see Ref Data section).
result	Result	Dropdown selector	Option set configurable in reference data. Option set configurable in reference data. Configure reference data to include the specific *result type* for Measles/Rubella (see Ref Data section).
status	Status	Dropdown selector	Option set configurable in reference data.
testedFor	Tested for	freetext	Mapped to "Antigen", which includes: Measles, Rubella, Dengue, Parvovirus B19, Herpes 6, Enterovirus, Other.
quantitativeResult	Quantitative result	freetext	
notes	Notes	freetext	

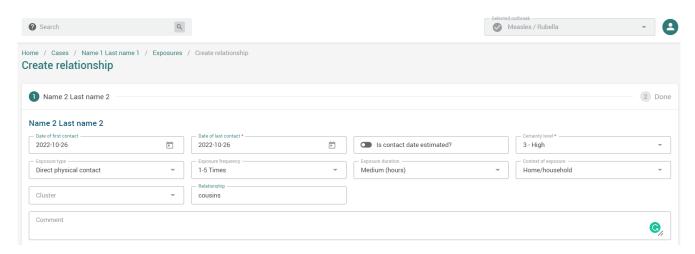|			
sequence.hasSequence	Has variant / strain?	boolean	Toggle Switch to mark Yes or No (skip logic: IF Yes, sequencing questions appear, IF No, only "Reason" appears).
sequence.dateSampleSent	Date sample sent for determining variant / strain	date	
sequence.labId	Variant / Strain lab name	Dropdown selector	
sequence.dateResult	Variant / Strain result date	date	
sequence.resultId	Variant / Strain result	Dropdown selector	
sequence.noSequenceReason	Reason	freetext	

Section 6. Event Creation

NOTE: can create exposure events and link cases to them. Address block is same to case creation.

Data Elements – Events (red indicates required field)

variable_code_godata	label	type	Notes
name	Name	freetext	Only name and date required, for each event, no Event ID
date	Date	date	Only name and date required, for each event, no Event ID
dateOfreporting	Date of reporting	date	
assignedUser	Assigned user	Dropdown selector	Option set configurable in reference data.
Category	Category	Dropdown selector	Option set configurable in reference data.
endDate	End date	date	
description	Description	freetext	Only name and date required, for each event, no Event ID
addresses.typeId	Address Type	Dropdown selector	Option set configurable in reference data. Default = Current Address. Must have at least one Current Address.
addresses.date	Address Date	date	
addresses.phoneNumber	Phone number	freetext	
addresses.emailAddress	Email address	freetext	
addresses.locationId	Location	Dropdown selector	Location drop-down, based on configured hierarchical reference data. Can select most granular level preferred.
addresses.city	City	freetext	
addresses.addressLine1	Address	freetext	
addresses.postalCode	Postal code	freetext	
addresses.geoLocationAccurate	Coordinates are accurate	boolean	Toggle Switch to mark Yes or No (Default = NO) - in order to manually re-enter GPS vs. Using automatic GPS configured in Location Hierarchy.
geoLocationlat	Latitude	numeric	
geoLocation.lng	Longitude	numeric	

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Section 7. Relationship creation

NOTE: can add relationships/exposures to source event or case or relationship to a contact where the case is the exposure

Data Elements – Relationship creation (red indicates required field)

variable_code_godata	label	type	Notes
dateOfFirstContact	Date of first contact	date	
dateOfLastContact	Date of last contact	date	
contactDateEstimated	Is contact date estimated?	boolean	Toggle Switch to mark Yes or No
certaintyLevelId	Certainty level	Dropdown selector	Option set configurable in reference data.
exposureTypeId	Exposure type	Dropdown selector	Option set configurable in reference data.
exposureFrequencyId	Exposure frequency	Dropdown selector	Option set configurable in reference data.
exposureDurationId	Exposure duration	Dropdown selector	Option set configurable in reference data.
clusterId	Cluster	Dropdown selector	select from existing clusters within system
socialRelationshipTypeId	Context of exposure	Dropdown selector	Option set configurable in reference data.
socialRelationshipDetail	Relationship	freetext	
comment	Comments	freetext	

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Appendix: Reference data for categorical variables:

We have created some key reference data specifications for categorical variables in Go.Data that align with Measles/Rubella (PAHO/WHO – Case investigation form). These can be updated easily in the reference data section of Go.Data (see below).
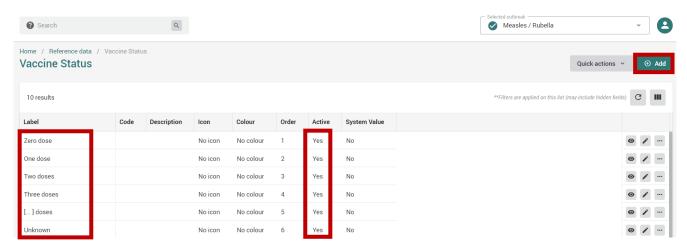
Default values not used in the context of Measles investigation can be deactivated. For more information see: Tutorial for updating Go.Data Reference Data to align with a Disease-Specific Template
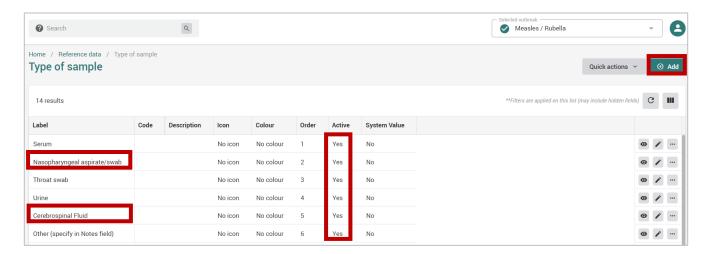
- ## Vaccine:

Configure reference data to include "Measles", "Rubella", "Measles Rubella", and "Measles Mumps Rubella":

- ## Vaccine status:

Configure reference data to include "Zero dose", "One dose", "Two doses", "Three doses", etc.,:

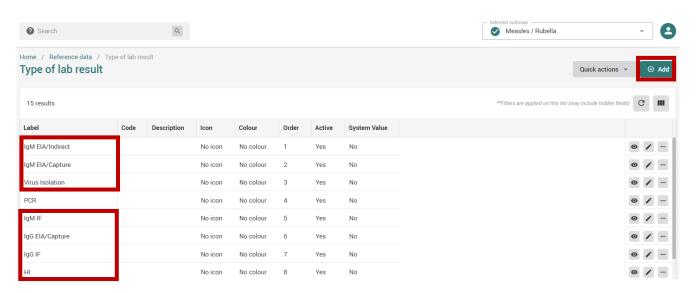For questions please email godata@who.int

- ## Type of sample:

Configure reference data to include "Nasopharyngeal aspirate/swab" and "Cerebrospinal Fluid" :
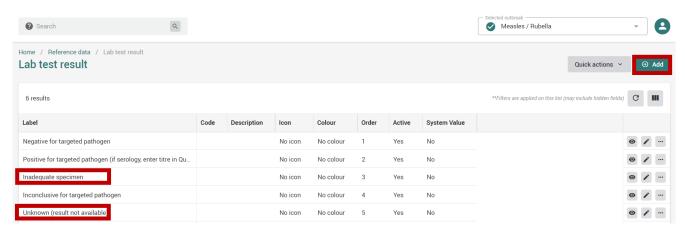

- ## Type of lab result:

Configure reference data to include "IgM EIA/Indirect" ," IgM EIA/Capture" ," Virus Isolation" ," IgM IF" ," IgG EIA/Capture" ," IgG IF" , and" HI" :

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- ## Lab test result:

Configure reference data to include "Inadequate specimen" ," Unknown (result not available)" :

Label	Code	Description	Icon	Colour	Order	Active	System Value			
Negative for targeted pathogen			No icon	No colour	1	Yes	No			
Positive for targeted pathogen (if serology, enter titre in Qu...			No icon	No colour	2	Yes	No			
Inadequate specimen			No icon	No colour	3	Yes	No			
Inconclusive for targeted pathogen			No icon	No colour	4	Yes	No			
Unknown (result not available)			No icon	No colour	5	Yes	No			

Measles Reference Data Specifications

variable_code	optionset_code	optionset_label
vaccinesReceived.vaccine	measles	Measles
vaccinesReceived.vaccine	rubella	Rubella
vaccinesReceived.vaccine	mr	Measles Rubella
vaccinesReceived.vaccine	mmr	Measles Mumps Rubella
vaccinesReceived.status	zero_dose	Zero dose
vaccinesReceived.status	one_dose	One dose
vaccinesReceived.status	two_doses	Two doses
vaccinesReceived.status	three_doses	Three doses
sampleType	nasopharyngeal_swab	Nasopharyngeal aspirate/swab
sampleType	cerebrospinal_fluid	Cerebrospinal Fluid
testType	Igm_eia_indirect	IgM EIA/Indirect
testType	Igm_eia_capture	IgM EIA/Capture
testType	Virus_isolation	Virus Isolation
testType	Igm_if	IgM IF
testType	Igg_eia_capture	IgG EIA/Capture
testType	Igg_if	IgG IF
testType	hi	HI
Result	inadequate_specimen	Inadequate specimen
result	unk	Unknown (result not available)

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