

Data Element Priorities for Implementation of the Respiratory and Invasive Bacterial Diseases (RIBD) Message Mapping Guide (MMG)

Generic v2.0

National Center for Immunization and Respiratory Diseases (NCIRD), Atlanta, Georgia

Version Date: 4/9/2020

THROUGHOUT THIS DOCUMENT:

- Columns A-E ("Condition," "Data Element Name," "Data Element Description," "Data Element Identifier," "CDC Priority") contain information from the current* MMG for each condition (i.e., generic v2.0, *H. influenzae*, *N. meningitidis*, invasive pneumococcal disease, psittacosis, legionellosis).
- Column F ("NCIRD Priority") contains the programmatic priority designation of these data elements.
 - The data elements noted as priority 1 or priority 2 in column F are highlighted in dark green or light green, respectively, and are of HIGHEST and HIGH priority, respectively, for inclusion in HL7 message.
 - Jurisdictions' data collection processes and systems should be modified to collect priority 1 and 2 data.
 - Data elements noted as priority 3 in column F (highlighted in yellow) should be considered for inclusion in HL7 message but are not of highest or high priority.
 - Data elements noted as "Required" in column F (highlighted in orange) are mandatory for sending a case notification via HL7 message.
- Column G ("NCIRD Priority Description") includes standard guidance for each priority level.
- Column H ("Program-Specific Guidance for Implementation") includes the context and rationale for the priority designation, in addition to NCIRD guidance for the data element, where applicable.
- If you have questions about the content of this document, please contact the NCIRD Surveillance Data mailbox at NCIRDsurData@cdc.gov.

*Generic v2.0 MMG dated 12/06/2017

Condition	Data Element (DE) Name	Data Element Description	Data Element (DE) Identifier	CDC Priority (as on MMG)	NCIRD Priority	NCIRD Priority Description	Program-Specific Guidance for Implementation (where applicable)
Gen V2	Message Profile Identifier	Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.	N/A: MSH-21	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Local Subject ID	The local ID of the subject/entity	N/A: PID-3	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Birth Date	Patient's date of birth	N/A: PID-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information.
Gen V2	Subject's Sex	Subject's current sex	N/A: PID-8	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information.
Gen V2	Race Category	Race category - Major OMB Race Categories. Detailed race information would be rolled up to these major OMB race categories.	N/A: PID-10	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information.
Gen V2	Subject Address State	State of residence of the subject	N/A: PID-11.4	O	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information.
Gen V2	Subject Address ZIP Code	ZIP Code of residence of the subject	N/A: PID-11.5	O	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information.
Gen V2	Subject Address County	County of residence of the subject	N/A: PID-11.9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information. This data element is of highest priority for the IPD program.
Gen V2	Ethnic Group	Based on the self-identity of the subject as Hispanic or Latino	N/A: PID-22	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important demographic information.
Gen V2	Deceased Date	If the subject died from this illness or complications associated with this illness, indicate the date of death.	N/A: PID-29	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.

Gen V2	Local Record ID	Sending system-assigned local ID of the case investigation with which the subject is associated.	N/A: OBR-3	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Date First Electronically Submitted	Date/time the notification was first electronically sent to CDC. This value does not change after the original notification.	N/A: OBR-7	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Date of Electronic Case Notification to CDC	Date/time this version of the electronic case notification was sent. It will be the same value as NOT103 for the original notification. For updates, this is the update/send date/time.	N/A: OBR-22	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Notification Result Status	Status of the notification	N/A: OBR-25	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Condition Code	Condition or event that constitutes the reason the notification is being sent.	N/A: OBR-31	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Other Race Text	Other Race Text	32624-9	O	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Country of Birth	Country of Birth	78746-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Other Birth Place	Other Birth Place	21842-0	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Country of Usual Residence	Where does the person usually live (defined as their residence). This variable replaces the Foreign Resident variable mentioned in 11-SI-04 titled "Revised Guidelines for Determining Residency for Disease Reporting" located at http://cymcdn.com/sites/www.cste.org/resource/esmgr/PS/11-SI-04.pdf . Cases with country of usual residence equal to the US, Puerto Rico, and US Virgin Islands as well as unknown and null responses will be included in the state-specific counts and rates.	77983-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Date of Illness Onset	Date of the beginning of the illness. Reported date of the onset of symptoms of the condition being reported to the public health system.	11368-8	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Illness End Date	Date at which the disease or condition ends.	77976-9	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Illness Duration	Length of time this subject had this disease or condition.	77977-7	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	NCIRD understands that some jurisdictions may not ask duration questions in terms of total number of days. In the short-term, the jurisdiction can send answers to this question in structured numeric format to send data as appropriate (e.g., >#). However, as timelines are developed for surveillance data collection and message mapping guide implementation, jurisdictions should consider changes to support collection and transmission of "duration in days," as indicated for case classification.
Gen V2	Illness Duration Units	Unit of time used to describe the length of the illness or condition.	N/A: OBR-6	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Pregnancy Status	Indicates whether the subject was pregnant at the time of the event.	77996-7	O	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Diagnosis Date	Earliest date of diagnosis (clinical or laboratory) of condition being reported to public health system.	77975-1	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Hospitalized	Was subject hospitalized because of this event?	77974-4	O	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.

Gen V2	Admission Date	Subject's most recent admission date to the hospital for the condition covered by the investigation.	8656-1	O	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is of high priority for the IPD program.
Gen V2	Discharge Date	Subject's most recent discharge date from the hospital for the condition covered by the investigation.	8649-6	O	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is of high priority for the IPD program.
Gen V2	Duration of Hospital Stay in Days	Subject's duration of stay at the hospital for the condition covered by the investigation.	78033-8	O	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Subject Died	Did the subject die from this illness or complications of this illness?	77978-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	State Case Identifier	States use this identifier to link NEDSS investigations back to their own state investigations.	77993-4	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This information is used to identify unique notifications.
Gen V2	Legacy Case Identifier	CDC uses this identifier to link current case notifications to case notifications submitted by a previous system (NETSS, STD-MIS, etc.).	77997-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This information is used to identify unique notifications.
Gen V2	Age at Case Investigation	Subject age at time of case investigation	77998-3	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Age Unit at Case Investigation	Subject age unit at time of case investigation	N/A; OBX-6	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Case Disease Imported Code	Indication of where the disease/condition was likely acquired.	77982-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Imported Country	If the disease or condition was imported, indicates the country in which the disease was likely acquired.	INV153	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Imported State	If the disease or condition was imported, indicates the state in which the disease was likely acquired.	INV154	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Imported City	If the disease or condition was imported, indicates the city in which the disease was likely acquired.	INV155	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Imported County	If the disease or condition was imported, contains the county of origin of the disease or condition.	INV156	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Country of Exposure	Indicates the country in which the disease was likely acquired.	77984-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.

Gen V2	State or Province of Exposure	Indicates the state (or Province) in which the disease was likely acquired. Note: If Country of exposure was US, populate with US State. If Country of exposure was Mexico, populate with Mexican State. If country of exposure was Canada, populated with Canadian Province. For all other countries, leave null.	77985-0	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	City of Exposure	Indicates the city in which the disease was likely acquired Note: If country of exposure is US, populate with US city. For all other cities, can be populated but not required.	77986-8	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	County of Exposure	Indicates the county in which the disease was likely acquired Note: If country of exposure is US, populate with US county. Otherwise, leave null.	77987-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Transmission Mode	Code for the mechanism by which disease or condition was acquired by the subject of the investigation.	77989-2	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Case Class Status Code	Status of the case/event as suspect, probable, confirmed, or not a case per CSTE/CDC/ surveillance case definitions.	77990-0	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Immediate National Notifiable Condition	Does this case meet the criteria for immediate (extremely urgent or urgent) notification to CDC? Refer to the 2015 list of NNC by type of notification category (extremely urgent, urgent, and standard) at the following link: http://www.cdc.gov/nrds/document/NNC_2015_Notification_Requirements_By_Category.pdf	77995-2	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Case Outbreak Indicator	Denotes whether the reported case was associated with an identified outbreak.	77980-1	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Case Outbreak Name	A state-assigned name for an identified outbreak.	77981-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important epidemiologic information.
Gen V2	Jurisdiction Code	Identifier for the physical site from which the notification is being submitted.	77969-4	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data provides important reporting information.
Gen V2	Reporting Source Type Code	Type of facility or provider associated with the source of information sent to Public Health.	48766-0	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Reporting Source ZIP Code	ZIP Code of the reporting source for this case.	52831-5	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Binational Reporting Criteria	For cases meeting the binational criteria, select all the criteria which are met	77988-4	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Person Reporting to CDC - Name	Name of the person who is reporting the case to the CDC. This is the person that CDC should contact in a state if there are questions regarding this case notification.	74549-7	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Person Reporting to CDC - Phone Number	Phone Number of the person who is reporting the case to the CDC. This is the person that CDC should contact in a state if there are questions regarding this case notification.	74548-9	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Person Reporting to CDC - Email	Email Address of the person reporting the case to the CDC. This is the person that CDC should contact in a state if there are questions regarding this case notification.	74547-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Gen V2	Case Investigation Start Date	The date the case investigation was initiated.	77979-3	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Date Reported	Date that a health department first suspected the subject might have the condition.	77995-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important reporting information.

Gen V2	Earliest Date Reported to County	Earliest date reported to county public health system.	77972-8	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data provides important reporting information.
Gen V2	Earliest Date Reported to State	Earliest date reported to state public health system.	77973-6	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data provides important reporting information.
Gen V2	MMWR Week	MMWR Week for which case information is to be counted for MMWR publication.	77991-8	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	MMWR Year	MMWR Year (YYYY) for which case information is to be counted for MMWR publication.	77992-6	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Date CDC Was First Verbally Notified of This Case	Date the case of an Immediately National Notifiable Condition was first verbally reported to the CDC Emergency Operation Center or the CDC Subject Matter Expert responsible for this condition.	77994-2	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Gen V2	Date First Reported to PHD	Date the report was first sent to the public health department (local, county or state) by reporter (physician, lab, etc.).	77970-2	P	2	This is a high priority data element that will support national surveillance activities . If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important reporting information.
Gen V2	Reporting State	State reporting the notification	77966-0	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Reporting County	County reporting the notification	77967-8	P	2	This is a high priority data element that will support national surveillance activities . If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides important reporting information.
Gen V2	National Reporting Jurisdiction	National jurisdiction reporting the notification to CDC	77968-6	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Gen V2	Comment	Use this field, if needed, to communicate anything unusual about this case, which is not already covered with the other data elements. Do not send personally identifiable information to CDC in this field.	77999-1	O	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	

Data Element Priorities for Implementation of the Respiratory and Invasive Bacterial Diseases (RIBD) Message Mapping Guide (MMG)

Haemophilus influenzae

National Center for Immunization and Respiratory Diseases (NCIRD), Atlanta, Georgia

Version Date: 4/9/2020

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 - Data elements noted as priority 3 in column F (highlighted in yellow) should be considered for inclusion in HL7 message but are not of highest or high priority.
 - Data elements noted as "Required" in column F (highlighted in orange) are mandatory for sending a case notification via HL7 message.
- Column G ("NCIRD Priority Description") includes standard guidance for each priority level.
- Column H ("Program-Specific Guidance for Implementation") includes the context and rationale for the priority designation, in addition to NCIRD guidance for the data element, where applicable.
- If you have questions about the content of this document, please contact the NCIRD Surveillance Data mailbox at NCIRDsurvData@cdc.gov.

*RIBD v1.0 MMG dated 12/13/2019

Condition	Data Element (DE) Name	Data Element Description	Data Element (DE) Identifier	CDC Priority (as on MMG)	NCIRD Priority	NCIRD Priority Description	Program-Specific Guidance for Implementation (where applicable)
<i>H. influenzae</i>	Message Profile Identifier	Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.	N/A: MSH-21	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
<i>H. influenzae</i>	Insurance	Insurance	76437-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Weight	Subject's weight at diagnosis	3141-9	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Weight Units	Subject's weight units	N/A: OBX-6 for 3141-9	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Height	Subject's height at diagnosis	3137-7	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Height Units	Subject's height units	N/A: OBX-6 for 3137-7	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Bacterial Infection Syndrome	Types of infection caused by organism	INV298	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>H. influenzae</i>	Did Underlying Condition(s) Exist	Did the subject have any underlying causes or prior illnesses?	INV235	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>H. influenzae</i>	Underlying Condition(s)	Listing of underlying causes or prior illnesses	INV236	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>H. influenzae</i>	Underlying Conditions Indicator	Underlying Conditions Indicator	INV62	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides information on the signs and symptoms of the disease occurrence.
<i>H. influenzae</i>	Pregnancy Status at the Time of First Positive Culture	At the time of first positive culture, was the patient pregnant or postpartum? (The postpartum period is defined as the 30 days following a delivery or miscarriage)	INV661	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on pregnancy-associated infections.
<i>H. influenzae</i>	Pregnancy Outcome	If pregnant or postpartum, what was the outcome of fetus?	63893-2	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on pregnancy-associated infections.
<i>H. influenzae</i>	Gestational Age	If patient <1 month of age, indicate gestational age (in weeks)	18185-9	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>H. influenzae</i>	Birth Weight	If patient <1 month of age, indicate birth weight	56056-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on infant infections.
<i>H. influenzae</i>	Birth Weight Units	Birth weight units	N/A: OBX-6 for 56056-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on infant infections.

<i>H. influenzae</i>	Previous Contact With Hib Disease	Is there a known previous contact(s) with Hib disease within the preceding two months?	INV101	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Hib Contact Type	Type of previous contact(s) with Hib disease within the preceding two months.	INV102	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Previous Contact With Non-b or Nontypeable <i>H. influenzae</i> Case	Did patient have known previous contact(s) with a non-b or nontypeable case of <i>H. influenzae</i> disease within the preceding 2 months?	INV103	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Non-b or Nontypeable Contact Type	Specify type of contact(s) with non-b or nontypeable case of <i>H. influenzae</i>	INV104	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	In Day Care	Does this patient attend a day care facility?	INV615	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Long Term Care Resident	Does this patient reside in a long term care facility?	INV636	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Case Investigation Status Code	Case investigation status code	INV109	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element refers to the local case investigation status. CDC guidance is to submit notifications early in the investigation, rather than waiting until the investigation is finalized. However, NCIRD understands that some jurisdictions may have jurisdiction-specific requirements for the timing of case notifications.
<i>H. influenzae</i>	Recurrent Disease with Same Pathogen	Does this case have recurrent disease with the same pathogen? (For <i>Streptococcus pneumoniae</i> , the specimen from the current case must have been isolated 8 or more days after any previous case due to the same pathogen. For all other pathogens, the specimen from the current case must have been isolated 30 or more days after any previous case due to the same pathogen.)	INV975	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Previous State ID (Recurrent Case)	StateID of 1st occurrence for this pathogen and person.	INV976	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Case Report Form Status	Case Report Form Status	INV656	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Patient Address City	Patient address city	N/A. PID-11.3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This information is often used to support specificity in communications between CDC and jurisdictions when providing follow-up and technical assistance.
<i>H. influenzae</i>	Illness Onset Age	Illness onset age	INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.
<i>H. influenzae</i>	Illness Onset Age Units	Illness onset age units	N/A. OBX-6 for INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.
<i>H. influenzae</i>	Residence	Where was the patient a resident at time of initial culture?	75617-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Premature Infant	Premature at birth (for children <2 years old)	76517-2	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>H. influenzae</i>	Epi-Linked to a Laboratory Confirmed Case	Is this case epi-linked to a laboratory-confirmed case?	INV927	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is important for understanding <i>H. influenzae</i> epidemiology in the U.S.
<i>H. influenzae</i>	ABCs State ID	ABCs State ID	INV966	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element applies to ABCs jurisdictions. For ABCs cases for which a case notification is also submitted for NNDSS, please include the ABCs state ID in the NNDSS case information so that the two sources can be linked together.

<i>H. influenzae</i>	Laboratory Testing Performed	Was laboratory testing done to confirm the diagnosis?	LAB630	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCRID has consequently assigned a "highest priority" designation to this data element, as NCRID appropriately does not apply an algorithm to impute these responses.
<i>H. influenzae</i>	Laboratory Confirmed	Was the case laboratory confirmed?	INV164	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCRID has consequently assigned a "highest priority" designation to this data element, as NCRID appropriately does not apply an algorithm to impute these responses.
<i>H. influenzae</i>	Test Type	Epidemiologic interpretation of the type of test(s) performed for this case.	INV290	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Specimen Type	Specimen Type from which organism was isolated	66746-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Specimen Collection Date/Time	Date of Specimen Collection	68963-8	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen collection date is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Test Method	Test Method	85069-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test method is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Organism Name	Bacterial species isolated	LAB278	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Organism name is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Test Result	Epidemiologic interpretation of the results of the test(s) performed for this case. This is a qualitative test result (e.g. positive, detected, negative)	INV291	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test result is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Test Result Quantitative	Quantitative Test Result Value	LAB628	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Result Units	Units of measure for the Quantitative Test Result Value	LAB115	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Serotype	What was the serotype?	INV706	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Serotype is important for understanding the epidemiology of <i>H. influenzae</i> cases in the U.S.
<i>H. influenzae</i>	Serotype Method	Serotype Method	LAB532	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Serotype method is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Performing Laboratory Type	Performing laboratory type	82771-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on whether a CDC laboratory, WPD Reference Center or other type of laboratory performed the test, which is important for linking results to specific cases and for assessing the applicability of the test results.

<i>H. influenzae</i>	Performing Laboratory Name	Reporting laboratory name	68994-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Test Manufacturer	Test Manufacturer	LAB650	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test manufacturer provides information about how the test results should be interpreted and is important for fully describing the lab testing and test results.
<i>H. influenzae</i>	Specimen Sent to CDC	Was a specimen sent to CDC for testing?	R2314-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This information assists CDC in linking the specimen identifier and CDC-tested lab results.
<i>H. influenzae</i>	Lab Accession Number	Lab Accession Number (including CDC Lab ID)	INV978	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	The lab accession number is used to assist in locating/identifying test results for specific cases.
<i>H. influenzae</i>	Date Specimen Sent to CDC	Date specimen sent to CDC	85930-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	If a specimen is sent to CDC, it is important to know when it was sent to assist in locating/identifying test results for specific cases.
<i>H. influenzae</i>	Did the Subject Ever Receive a Vaccine Against This Disease	Did the subject ever receive a vaccine against this disease?	VAC126	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any vaccination data are provided in the case notification, vaccination data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no vaccination data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses.
<i>H. influenzae</i>	Date of Last Dose Prior to Illness Onset	Date of last vaccine dose against this disease prior to illness onset	VAC142	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the vaccination status of <i>H. influenzae</i> cases in the U.S. Although this could be determined through an algorithm if there are any vaccination data provided in the case notification, vaccination data are often missing (especially early in the investigation).
<i>H. influenzae</i>	Vaccination Doses Prior to Onset	Number of vaccine doses against this disease prior to illness onset	82745-1	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is used for understanding the vaccination status of <i>H. influenzae</i> cases in the U.S.
<i>H. influenzae</i>	Vaccinated per ACIP Recommendations	Was subject vaccinated as recommended by the Advisory Committee on Immunization Practices (ACIP)?	VAC148	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important information as to whether the case was vaccinated according to the ACIP recommendations. The question is broadly phrased to capture whichever ACIP recommendations are relevant. Jurisdictions should answer this question in the context of current ACIP guidelines. Note that the intention of this question is to identify whether the case was appropriately following ACIP recommendations, whether vaccinated or not.
<i>H. influenzae</i>	Reason Not Vaccinated Per ACIP Recommendations	Reason subject not vaccinated as recommended by ACIP	VAC149	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important information as to whether the case was vaccinated according to the ACIP recommendations. The question is broadly phrased to capture whichever ACIP recommendations are relevant. Jurisdictions should answer this question in the context of current ACIP guidelines. Note that the intention of this question is to describe why the case was not vaccinated at all, or was not vaccinated appropriately as recommended by ACIP.
<i>H. influenzae</i>	Vaccine History Comments	Vaccine History Comments	VAC133	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Vaccine Type	The type of vaccine administered for the condition being reported	30956-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine type is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>H. influenzae</i>	Vaccine Administered Date	The date that the vaccine was administered	30952-6	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine date is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.

<i>H. influenzae</i>	Vaccine Dose Number	The dose number in a series	30973-2	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine dose is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>H. influenzae</i>	Vaccine Manufacturer	The company which manufactured the vaccine	30957-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine manufacturer is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>H. influenzae</i>	Vaccine Lot Number	The lot number for the vaccine administered	30959-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>H. influenzae</i>	Vaccine Expiration Date	The expiration date for the vaccine administered	VAC109	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>H. influenzae</i>	National Drug Code (NDC)	NDC from the vaccine's bar code can be used to obtain vaccine brand name and manufacturer.	VAC153	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>H. influenzae</i>	Vaccination Record Identifier	Vaccination record identifier	VAC102	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>H. influenzae</i>	Age at Vaccination	The persons age at the time the vaccine was given	VAC105	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides essential information on the vaccination history of the case. Although age at case investigation is included in the Generic V2 MMG, NCRD recognizes that some jurisdictions may collect age information specific to vaccination history. In addition, the CDC program will not be able to calculate age at vaccination if a case is missing responses for age at case investigation, vaccination date, or date of birth. Please map to this data element if you have the data available, and consider adding age at vaccination to your surveillance system if you do not.
<i>H. influenzae</i>	Age at Vaccination Units	The age units of the person at the time the vaccine was given	N/A. OBX-6 for VAC105	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides essential information on the vaccination history of the case. Although age at case investigation is included in the Generic V2 MMG, NCRD recognizes that some jurisdictions may collect age information specific to vaccination history. In addition, the CDC program will not be able to calculate age at vaccination if a case is missing responses for age at case investigation, vaccination date, or date of birth. Please map to this data element if you have the data available, and consider adding age at vaccination to your surveillance system if you do not.
<i>H. influenzae</i>	Vaccine Event Information Source	The information source for this vaccination record	VAC147	O	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine event information source is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>H. influenzae</i>	Susceptibility Test	Was any susceptibility data available?	LAB222	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Antimicrobial Susceptibility Test Type	Antimicrobial Susceptibility Test Type would include drugs, enzymes, PCR and other genetic tests to detect the resistance against specific drugs.	LABA5T6	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Antimicrobial Susceptibility Test Interpretation	Antimicrobial Susceptibility Test Interpretation (e.g. Susceptible, Resistant, Intermediate, Not tested)	LABA5T8	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Susceptibility Testing Performing Lab Type	Susceptibility testing performing lab type	LABA5T15	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>H. influenzae</i>	Antimicrobial Susceptibility Test Method	Antimicrobial Susceptibility Test Method (e.g. E-Test, MIC, Disk Diffusion)	LABA5T7	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	

<i>H. influenzae</i>	VPD Lab Message Reference Laboratory	Vaccine Preventable Disease (VPD) reference laboratory that will be used along with the patient identifier and specimen identifier to uniquely identify a VPD lab message	LAB143	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDSS cases.
<i>H. influenzae</i>	VPD Lab Message Patient Identifier	VPD lab message patient identifier that will be used along with the reference laboratory and specimen identifier to uniquely identify a VPD lab message	LAB598	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDSS cases.
<i>H. influenzae</i>	VPD Lab Message Specimen Identifier	VPD lab message specimen identifier that will be used along with the patient identifier and reference laboratory to uniquely identify a VPD lab message	LAB125	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDSS cases.
<i>H. influenzae</i>	Current Occupation	This data element is used to capture the narrative text of a subject's current occupation.	85658-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>H. influenzae</i>	Current Occupation Standardized	This data element is used to capture the CDC NIOSH standard occupation code based upon the narrative text of a subject's current occupation. (The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html)	85659-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>H. influenzae</i>	Current Industry	This data element is used to capture the narrative text of subject's current industry.	85078-4	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>H. influenzae</i>	Current Industry Standardized	This data element is used to capture the CDC NIOSH standard industry code based upon the narrative text of a subject's current industry. (The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html)	85657-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	

Data Element Priorities for Implementation of the Respiratory and Invasive Bacterial Diseases (RIBD) Message Mapping Guide (MMG)

Neisseria meningitidis

National Center for Immunization and Respiratory Diseases (NCIRD), Atlanta, Georgia

Version Date: 4/9/2020

THROUGHOUT THIS DOCUMENT:

- Columns A-E ("Condition," "Data Element Name," "Data Element Description," "Data Element Identifier," "CDC Priority") contain information from the current* MMG for each condition (i.e., generic v2.0, *H. influenzae*, *N. meningitidis*, invasive pneumococcal disease, psittacosis, legionellosis).
- Column F ("NCIRD Priority") contains the programmatic priority designation of these data elements.
 - The data elements noted as priority 1 or priority 2 in column F are highlighted in dark green or light green, respectively, and are of HIGHEST and HIGH priority, respectively, for inclusion in HL7 message.
 - Jurisdictions' data collection processes and systems should be modified to collect priority 1 and 2 data.
 - Data elements noted as priority 3 in column F (highlighted in yellow) should be considered for inclusion in HL7 message but are not of highest or high priority.
 - Data elements noted as "Required" in column F (highlighted in orange) are mandatory for sending a case notification via HL7 message.
- Column G ("NCIRD Priority Description") includes standard guidance for each priority level.
- Column H ("Program-Specific Guidance for Implementation") includes the context and rationale for the priority designation, in addition to NCIRD guidance for the data element, where applicable.
- If you have questions about the content of this document, please contact the NCIRD Surveillance Data mailbox at NCIRDsurvData@cdc.gov.

*RIBD v1.0 MMG dated 12/13/2019

Condition	Data Element (DE) Name	Data Element Description	Data Element (DE) Identifier	CDC Priority (as on MMG)	NCIRD Priority	NCIRD Priority Description	Program-Specific Guidance for Implementation (where applicable)
<i>N. meningitidis</i>	Message Profile Identifier	Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.	N/A. MSH-21	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
<i>N. meningitidis</i>	Insurance	Insurance	76437-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Weight	Subject's weight at diagnosis	3141-9	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Weight Units	Subject's weight units	N/A. OBX-6 for 3141-9	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Height	Subject's height at diagnosis	3137-7	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Height Units	Subject's height units	N/A. OBX-6 for 3137-7	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Bacterial Infection Syndrome	Types of infection caused by organism	INV298	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>N. meningitidis</i>	Did Underlying Condition(s) Exist	Did the subject have any underlying causes or prior illnesses?	INV235	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>N. meningitidis</i>	Underlying Condition(s)	Listing of underlying causes or prior illnesses	INV236	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>N. meningitidis</i>	Underlying Conditions Indicator	Underlying Conditions Indicator	INV62	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
<i>N. meningitidis</i>	Pregnancy Status at the Time of First Positive Culture	At the time of first positive culture, was the patient pregnant or postpartum? (The postpartum period is defined as the 30 days following a delivery or miscarriage)	INV661	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Pregnancy Outcome	If pregnant or postpartum, what was the outcome of fetus?	63893-2	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Gestational Age	If patient <1 month of age, indicate gestational age (in weeks)	18185-9	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Birth Weight	If patient <1 month of age, indicate birth weight	56056-5	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Birth Weight Units	Infant's birth weight units	N/A. OBX-6 for 56056-5	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Attending Higher Education College	Is patient (15-24 years only) currently attending college?	224311000	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Grade in School	Year of college	64990-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	College Living Situation	Patient's current living situation (college/university)	INV1091	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.

<i>N. meningitidis</i>	Name of College/University	Name of College/University	INV1092	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	In Day Care	Does the patient attend a day care facility?	INV615	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Secondary Case	Is this a secondary case?	INV1093	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Long-term Care Resident	Does the patient reside in a long term care facility?	INV636	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Case Investigation Status Code	Case investigation status code	INV109	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element refers to the local case investigation status. CDC guidance is to submit notifications early in the investigation, rather than waiting until the investigation is finalized. However, NCRID understands that some jurisdictions may have jurisdiction-specific requirements for the timing of case notifications.
<i>N. meningitidis</i>	Recurrent Disease with Same Pathogen	Does this case have recurrent disease with the same pathogen? (For <i>Streptococcus pneumoniae</i> , the specimen from the current case must have been isolated 8 or more days after any previous case due to the same pathogen. For all other pathogens, the specimen from the current case must have been isolated 30 or more days after any previous case due to the same pathogen.)	INV975	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Previous State ID (Recurrent Case)	StateID of 1st occurrence for this pathogen and person.	INV976	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Case Report Form Status	Case Report Form Status	INV656	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Had Sex with a Male within the Past 12 Months	Had sex with a male within the past 12 months?	STD107	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Had Sex with a Female within the Past 12 Months	Had sex with a female within the past 12 months?	STD108	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Number of Male Sexual Partners	In the 3 months prior to the onset of symptoms, number of male sex partners the person had?	INV605	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	HIV Status	Documented or self-reported HIV status at the time of event	55277-8	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Homeless	Was the patient homeless at time of symptom onset?	32911000	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Signs and Symptoms	Indicate what symptoms of interest the patient had during the course of the illness	56831-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the clinical presentation of the cases to support case classification. In addition, this information also supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Signs and Symptoms Indicator	Indicator for associated signs and symptoms	INV919	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the clinical presentation of the cases to support case classification. In addition, this information also supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Eculizumab	Was the patient taking eculizumab/Soliris at the time of disease onset?	427429004	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Ravulizumab	(Proposed) Was the patient taking Ravulizumab (Ultomiris) at the time of disease onset?	783439006	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Patient Address City	Patient address city	N/A- PID-11.3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This information is often used to support specificity in communications between CDC and jurisdictions when providing follow-up and technical assistance.
<i>N. meningitidis</i>	Illness Onset Age	Illness onset age	INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCRID recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.

<i>N. meningitidis</i>	Illness Onset Age Units	Illness onset age units	N/A, OBX-6 for INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.
<i>N. meningitidis</i>	Residence	Where was the patient a resident at time of initial culture?	75617-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
<i>N. meningitidis</i>	Epi-Linked to a Laboratory Confirmed Case	Is this case epi-linked to a laboratory-confirmed case?	INV927	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is important for understanding <i>N. meningitidis</i> epidemiology in the U.S.
<i>N. meningitidis</i>	ABCs State ID	ABCs State ID	INV966	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element applies to ABCs jurisdictions. For ABCs cases for which a case notification is also submitted for NNDS, please include the ABCs state ID in the NNDS case information so that the two sources can be linked together.
<i>N. meningitidis</i>	Laboratory Testing Performed	Was laboratory testing done to confirm the diagnosis?	LAB630	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses.
<i>N. meningitidis</i>	Laboratory Confirmed	Was the case laboratory confirmed?	INV164	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses.
<i>N. meningitidis</i>	Test Type	Epidemiologic interpretation of the type of test(s) performed for this case.	INV290	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Organism Name	Bacterial species isolated	LAB278	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Organism name is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Specimen Type	Specimen Type from which organism was isolated	66746-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Specimen Collection Date/Time	Date of Specimen Collection	68963-8	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen collection date is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Test Method	Test Method	85069-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test method is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Test Result	Epidemiologic interpretation of the results of the test(s) performed for this case. This is a qualitative test result (e.g. positive, detected, negative)	INV291	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test result is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Test Result Quantitative	Quantitative Test Result Value	LAB628	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Result Units	Units of measure for the Quantitative Test Result Value	LAB115	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	

<i>N. meningitidis</i>	Serogroup	What was the serogroup?	INV705	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Serogroup is important for understanding the epidemiology of <i>N. meningitidis</i> cases in the U.S.
<i>N. meningitidis</i>	Serogroup Method	Serogroup method	LAB652	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Serogroup method is important for fully describing the lab testing and test results.
<i>N. meningitidis</i>	Performing Laboratory Type	Performing laboratory type	82771-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on whether a CDC laboratory, VPD Reference Center or other type of laboratory performed the test, which is important for linking results to specific cases and for assessing the applicability of the test results.
<i>N. meningitidis</i>	Performing Laboratory Name	Reporting laboratory name	68994-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Test Manufacturer	Test manufacturer	LAB650	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test manufacturer provides information about how the test results should be interpreted and may help to fully describe the lab testing and test results.
<i>N. meningitidis</i>	Specimen Sent to CDC	Was a specimen sent to CDC for testing?	82314-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This information assists CDC in linking the specimen identifier and CDC-tested lab results.
<i>N. meningitidis</i>	Lab Accession Number	Lab Accession Number (including CDC Lab ID)	INV978	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	The lab accession number is used to assist in locating/identifying test results for specific cases.
<i>N. meningitidis</i>	Date Specimen Sent to CDC	Date specimen sent to CDC	85930-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	If a specimen is sent to CDC, it is important to know when it was sent to assist in locating/identifying test results for specific cases.
<i>N. meningitidis</i>	Susceptibility Test	Was any susceptibility data available?	LAB222	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Antimicrobial Susceptibility Test Type	Antimicrobial Susceptibility Test Type would include drugs, enzymes, PCR and other genetic tests to detect the resistance against specific drugs.	LABA56	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Antimicrobial Susceptibility Test Interpretation	Antimicrobial Susceptibility Test Interpretation (e.g. Susceptible, Resistant, Intermediate, Not tested)	LABA58	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Susceptibility Testing Performing Lab Type	Susceptibility testing performing lab type	LABA515	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Antimicrobial Susceptibility Test Method	Antimicrobial Susceptibility Test Method (e.g. E-Test, MIC, Disk Diffusion)	LABA57	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Did the Subject Ever Receive a Vaccine Against This Disease	Did the subject ever receive a vaccine against this disease?	VAC126	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the vaccination status of <i>N. meningitidis</i> cases in the U.S. Although an algorithm could impute a response of "Yes" for this data element if any vaccination data are provided in the case notification, vaccination data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no vaccination data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses.
<i>N. meningitidis</i>	Date of Last Dose Prior to Illness Onset	Date of last vaccine dose against this disease prior to illness onset	VAC142	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the vaccination status of <i>N. meningitidis</i> cases in the U.S. Although this could be determined through an algorithm if there are any vaccination data provided in the case notification, vaccination data are often missing (especially early in the investigation).
<i>N. meningitidis</i>	Vaccination Doses Prior to Onset	Number of vaccine doses against this disease prior to illness onset	82745-1	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is used for understanding the vaccination status of <i>N. meningitidis</i> cases in the U.S.
<i>N. meningitidis</i>	Vaccinated per ACIP Recommendations	Was subject vaccinated as recommended by the Advisory Committee on Immunization Practices (ACIP)?	VAC148	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important information as to whether the case was vaccinated according to the ACIP recommendations. The question is broadly phrased to capture whichever ACIP recommendations are relevant. Jurisdictions should answer this question in the context of current ACIP guidelines. Note that the intention of this question is to identify whether the case was appropriately following ACIP recommendations, whether vaccinated or not.

<i>N. meningitidis</i>	Reason Not Vaccinated Per ACIP Recommendations	Reason subject not vaccinated as recommended by ACIP	VAC149	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important information as to whether the case was vaccinated according to the ACIP recommendations. The question is broadly phrased to capture whichever ACIP recommendations are relevant. Jurisdictions should answer this question in the context of current ACIP guidelines. Note that the intention of this question is to describe why the case was not vaccinated at all, or was not vaccinated appropriately as recommended by ACIP.
<i>N. meningitidis</i>	Vaccine History Comments	Vaccine History Comments	VAC133	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
<i>N. meningitidis</i>	Vaccine Type	The type of vaccine administered for the condition being reported	30956-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine type is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>N. meningitidis</i>	Vaccine Name	Vaccine Name	VAC155	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine name provides essential information on the vaccination history of the case.
<i>N. meningitidis</i>	Vaccine Administered Date	The date that the vaccine was administered	30952-6	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine date is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>N. meningitidis</i>	Vaccine Lot Number	The lot number for the vaccine administered	30959-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>N. meningitidis</i>	Vaccine Expiration Date	The expiration date for the vaccine administered	VAC109	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDSS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>N. meningitidis</i>	Vaccine Dose Number	The dose number in a series	30973-2	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine dose is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>N. meningitidis</i>	Vaccine Manufacturer	The company which manufactured the vaccine	30957-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine manufacturer is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>N. meningitidis</i>	National Drug Code (NDC)	NDC from the vaccine's bar code can be used to obtain vaccine brand name and manufacturer.	VAC153	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDSS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>N. meningitidis</i>	Vaccination Record Identifier	Vaccination record identifier	VAC102	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IIS repeating group, and is structured to support electronic consumption of IIS data. NCRD encourages jurisdictions to consider implementation of electronic linkages between NNDSS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
<i>N. meningitidis</i>	Age at Vaccination	The persons age at the time the vaccine was given	VAC105	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides essential information on the vaccination history of the case. Although age at case investigation is included in the Generic V2 MMG, NCRD recognizes that some jurisdictions may collect age information specific to vaccination history. In addition, the CDC program will not be able to calculate age at vaccination if a case is missing responses for age at case investigation, vaccination date, or date of birth. Please map to this data element if you have the data available, and consider adding age at vaccination to your surveillance system if you do not.

<i>N.meningitidis</i>	Age at Vaccination Units	The age units of the person at the time the vaccine was given	N/A. OBX-6 for VAC105	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides essential information on the vaccination history of the case. Although age at case investigation is included in the Generic V2 MMG, NCIIRD recognizes that some jurisdictions may collect age information specific to vaccination history. In addition, the CDC program will not be able to calculate age at vaccination if a case is missing responses for age at case investigation, vaccination date, or date of birth. Please map to this data element if you have the data available, and consider adding age at vaccination to your surveillance system if you do not.
<i>N.meningitidis</i>	Vaccine Event Information Source	The information source for this vaccination record	VAC147	O	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine event information source is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
<i>N.meningitidis</i>	VPD Lab Message Reference Laboratory	Vaccine Preventable Disease (VPD) reference laboratory that will be used along with the patient identifier and specimen identifier to uniquely identify a VPD lab message	LAB143	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDSS cases.
<i>N.meningitidis</i>	VPD Lab Message Patient Identifier	VPD lab message patient identifier that will be used along with the reference laboratory and specimen identifier to uniquely identify a VPD lab message	LAB598	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDSS cases.
<i>N.meningitidis</i>	VPD Lab Message Specimen Identifier	VPD lab message specimen identifier that will be used along with the patient identifier and reference laboratory to uniquely identify a VPD lab message	LAB125	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDSS cases.
<i>N.meningitidis</i>	Current Occupation	This data element is used to capture the narrative text of a subject's current occupation.	85658-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>N.meningitidis</i>	Current Occupation Standardized	This data element is used to capture the CDC NIOSH standard occupation code based upon the narrative text of a subject's current occupation. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85659-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>N.meningitidis</i>	Current Industry	This data element is used to capture the narrative text of subject's current industry.	85078-4	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
<i>N.meningitidis</i>	Current Industry Standardized	This data element is used to capture the CDC NIOSH standard industry code based upon the narrative text of a subject's current industry. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85657-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	

Data Element Priorities for Implementation of the Respiratory and Invasive Bacterial Diseases (RIBD) Message Mapping Guide (MMG)

Invasive Pneumococcal Disease (IPD)

National Center for Immunization and Respiratory Diseases (NCIRD), Atlanta, Georgia

Version Date: 4/9/2020

THROUGHOUT THIS DOCUMENT:

- Columns A-E ("Condition," "Data Element Name," "Data Element Description," "Data Element Identifier," "CDC Priority") contain information from the current* MMG for each condition (i.e., generic v2.0, *H. influenzae*, *N. meningitidis*, invasive pneumococcal disease, psittacosis, legionellosis).
- Column F ("NCIRD Priority") contains the programmatic priority designation of these data elements.
 - The data elements noted as priority 1 or priority 2 in column F are highlighted in dark green or light green, respectively, and are of HIGHEST and HIGH priority, respectively, for inclusion in HL7 message.
 - Jurisdictions' data collection processes and systems should be modified to collect priority 1 and 2 data.
 - Data elements noted as priority 3 in column F (highlighted in yellow) should be considered for inclusion in HL7 message but are not of highest or high priority.
 - Data elements noted as "Required" in column F (highlighted in orange) are mandatory for sending a case notification via HL7 message.
- Column G ("NCIRD Priority Description") includes standard guidance for each priority level.
- Column H ("Program-Specific Guidance for Implementation") includes the context and rationale for the priority designation, in addition to NCIRD guidance for the data element, where applicable.
- If you have questions about the content of this document, please contact the NCIRD Surveillance Data mailbox at NCIRDsurvData@cdc.gov.

*RIBD v1.0 MMG dated 12/13/2019

Condition	Data Element (DE) Name	Data Element Description	Data Element (DE) Identifier	CDC Priority (as on MMG)	NCIRD Priority	NCIRD Priority Description	Program-Specific Guidance for Implementation (where applicable)
IPD	Message Profile Identifier	Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.	N/A: MSH-21	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
IPD	In Day Care	Does this patient attend a day care facility?	INV615	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
IPD	Long Term Care Resident	Does this patient reside in a long term care facility?	INV636	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
IPD	Bacterial Infection Syndrome	Types of infection caused by organism	INV298	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
IPD	Did Underlying Condition(s) Exist	Did the subject have any underlying causes or prior illnesses?	INV235	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
IPD	Underlying Condition(s)	Listing of underlying causes or prior illnesses	INV236	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
IPD	Underlying Conditions Indicator	Underlying Conditions Indicator	INV662	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.
IPD	Case Investigation Status Code	Case investigation status code	INV109	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element refers to the local case investigation status. CDC guidance is to submit notifications early in the investigation, rather than waiting until the investigation is finalized. However, NCIRD understands that some jurisdictions may have jurisdiction-specific requirements for the timing of case notifications.
IPD	Patient Address City	Patient address city	N/A: PID-11.3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This information is often used to support specificity in communications between CDC and jurisdictions when providing follow-up and technical assistance.
IPD	Illness Onset Age	Illness onset age	INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.
IPD	Illness Onset Age Units	Illness onset age units	N/A: OBX-6 for INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.
IPD	Hospital ICU	During any part of the hospitalization, did the subject stay in an Intensive Care Unit (ICU) or a Critical Care Unit (CCU)?	30990401	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on disease severity. Please answer if Hospitalized = Y (Generic V2, DE Identifier 77974-4).

IPD	Residence	Where was the patient a resident at time of initial culture?	75617-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
IPD	Pregnancy Status at the Time of First Positive Culture	At the time of first positive culture, was the patient pregnant or postpartum? (The postpartum period is defined as the 30 days following a delivery or miscarriage)	INV661	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on pregnancy-associated infections.
IPD	Pregnancy Outcome	If pregnant or postpartum, what was the outcome of fetus?	63893-2	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on pregnancy-associated infections.
IPD	Gestational Age	If patient <1 month of age, indicate gestational age (in weeks)	18185-9	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on infant infections.
IPD	Birth Weight	If patient <1 month of age, indicate birth weight	56056-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on infant infections.
IPD	Birth Weight Units	Infant's birth weight units	N/A. OBX-6 for 56056-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on infant infections.
IPD	Premature Infant	Premature at birth (for children ≤2 years old)	76517-2	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
IPD	Insurance	Insurance	76437-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
IPD	Epi-Linked	Is this case Epi-Linked to another confirmed or probable case?	INV217	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is important for understanding IPD epidemiology in the U.S.
IPD	ABCs State ID	ABCs State ID	INV966	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element applies to ABCs jurisdictions. For ABCs cases for which a case notification is also submitted for NNDSS, please include the ABCs state ID in the NNDSS case information so that the two sources can be linked together.
IPD	Recurrent Disease with Same Pathogen	Does this case have recurrent disease with the same pathogen? (For Streptococcus pneumoniae, the specimen from the current case must have been isolated 8 or more days after any previous case due to the same pathogen. For all other pathogens, the specimen from the current case must have been isolated 30 or more days after any previous case due to the same pathogen.)	INV975	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is important for understanding IPD epidemiology in the U.S.
IPD	Previous State ID (Recurrent Case)	StateID of 1st occurrence for this pathogen and person.	INV976	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
IPD	Laboratory Testing Performed	Was laboratory testing done to confirm the diagnosis?	LAB630	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses.
IPD	Laboratory Confirmed	Was the case laboratory confirmed?	INV164	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses.
IPD	Test Type	Epidemiologic interpretation of the type of test(s) performed for this case.	INV290	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.

IPD	Specimen Type	Specimen Type from which organism was isolated	66746-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
IPD	Specimen Collection Date/Time	Date of specimen collection	68963-8	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen collection date is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
IPD	Test Method	Test Method	85069-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test method is important for fully describing the lab testing and test results.
IPD	Organism Name	Bacterial species isolated	LAB278	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Organism name is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
IPD	Test Result	Epidemiologic interpretation of the results of the test(s) performed for this case. This is a qualitative test result (e.g. positive, detected, negative)	INV291	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test result is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
IPD	Test Result Quantitative	Quantitative Test Result Value	LAB628	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
IPD	Result Units	Units of measure for the Quantitative Test Result Value	LAB115	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
IPD	Serotype	What was the serotype?	INV706	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Serotype is important for understanding the epidemiology of IPD cases in the U.S. This variable is also assessed as a key variable for completeness through the surveillance indicators.
IPD	Serotype Method	Serotype Method	LAB532	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Performing Laboratory Type	Performing laboratory type	82771-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on whether a CDC laboratory, VPD Reference Center or other type of laboratory performed the test, which is important for linking results to specific cases and for assessing the applicability of the test results.
IPD	Performing Laboratory Name	Reporting laboratory name	68994-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
IPD	Test Manufacturer	Test Manufacturer	LAB650	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test manufacturer provides information about how the test results should be interpreted and may help to fully describe the lab testing and test results.
IPD	Specimen Sent to CDC	Was a specimen sent to CDC for testing?	82314-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This information assists CDC in linking the specimen identifier and CDC-tested lab results.
IPD	Lab Accession Number	Lab Accession Number (including CDC Lab ID)	INV978	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	The lab accession number is used to assist in locating/identifying test results for specific cases.
IPD	Date Specimen Sent to CDC	Date specimen sent to CDC.	85930-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	If a specimen is sent to CDC, it is important to know when it was sent to assist in locating/identifying test results for specific cases.

IPD	Did the Subject Ever Receive a Vaccine Against This Disease	Did the subject ever receive a vaccine against this disease?	VAC126	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the vaccination status of IPD cases in the U.S. Although an algorithm could impute a response of "Yes" for this data element if any vaccination data are provided in the case notification, vaccination data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no vaccination data are entered. NCIRD has consequently assigned a "highest priority" designation to this data element, as NCIRD appropriately does not apply an algorithm to impute these responses. This variable is also assessed as a key variable for completeness through the surveillance indicators.
IPD	Date of Last Dose Prior to Illness Onset	Date of last vaccine dose against this disease prior to illness onset	VAC142	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the vaccination status of IPD cases in the U.S. Although this could be determined through an algorithm if there are any vaccination data provided in the case notification, vaccination data are often missing (especially early in the investigation).
IPD	Vaccination Doses Prior to Onset	Number of vaccine doses against this disease prior to illness onset	82745-1	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is used for understanding the vaccination status of IPD cases in the U.S.
IPD	Vaccinated per ACIP Recommendations	Was subject vaccinated as recommended by the Advisory Committee on Immunization Practices (ACIP)?	VAC148	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important information as to whether the case was vaccinated according to the ACIP recommendations. The question is broadly phrased to capture whichever ACIP recommendations are relevant. Jurisdictions should answer this question in the context of current ACIP guidelines. Note that the intention of this question is to identify whether the case was appropriately following ACIP recommendations, whether vaccinated or not.
IPD	Reason Not Vaccinated Per ACIP Recommendations	Reason subject not vaccinated as recommended by ACIP	VAC149	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important information as to whether the case was vaccinated according to the ACIP recommendations. The question is broadly phrased to capture whichever ACIP recommendations are relevant. Jurisdictions should answer this question in the context of current ACIP guidelines. Note that the intention of this question is to describe why the case was not vaccinated at all, or was not vaccinated appropriately as recommended by ACIP.
IPD	Vaccine History Comments	Vaccine History Comments	VAC133	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
IPD	Vaccine Type	The type of vaccine administered for the condition being reported	30956-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine type is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
IPD	Vaccine Administered Date	The date that the vaccine was administered	30952-6	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine date is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
IPD	Vaccine Manufacturer	The company which manufactured the vaccine	30957-5	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine manufacturer is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
IPD	Vaccine Lot Number	The lot number for the vaccine administered	30959-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IS repeating group, and is structured to support electronic consumption of IS data. NCIRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IIS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCIRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
IPD	Vaccine Dose Number	The dose number in a series	30973-2	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine dose is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.

IPD	Vaccine Expiration Date	The expiration date for the vaccine administered	VAC109	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IS repeating group, and is structured to support electronic consumption of IS data. NCIRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCIRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
IPD	National Drug Code (NDC)	NDC from the vaccine's bar code can be used to obtain vaccine brand name and manufacturer.	VAC153	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IS repeating group, and is structured to support electronic consumption of IS data. NCIRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCIRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
IPD	Vaccination Record Identifier	Vaccination record identifier	VAC102	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data is of high/optional priority. This data element is part of the IS repeating group, and is structured to support electronic consumption of IS data. NCIRD encourages jurisdictions to consider implementation of electronic linkages between NNDS and IS, to enhance efficiency, completeness, and accuracy of vaccine history data. However, NCIRD understands that the linkage functionality may not be feasible in the short-term; therefore these elements do not need to be completed until the jurisdiction is able to implement the electronic linkage. Note that the vaccine history repeating group is of highest priority and should be used by all jurisdictions to provide vaccine history data until electronic linkages are implemented.
IPD	Age at Vaccination	The persons age at the time the vaccine was given	VAC105	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides essential information on the vaccination history of the case. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to vaccination history. In addition, the CDC program will not be able to calculate age at vaccination if a case is missing responses for age at case investigation, vaccination date, or date of birth. Please map to this data element if you have the data available, and consider adding age at vaccination to your surveillance system if you do not.
IPD	Age at Vaccination Units	The age units of the person at the time the vaccine was given	N/A: OBX-6 for VAC105	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides essential information on the vaccination history of the case. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to vaccination history. In addition, the CDC program will not be able to calculate age at vaccination if a case is missing responses for age at case investigation, vaccination date, or date of birth. Please map to this data element if you have the data available, and consider adding age at vaccination to your surveillance system if you do not.
IPD	Vaccine Event Information Source	The information source for this vaccination record	VAC147	O	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Vaccine event information source is a key component of the vaccination history repeating group and provides essential information on the vaccination history of the case.
IPD	Susceptibility Test	Was any susceptibility data available?	LAB222	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Oxacillin Zone Size	Oxacillin Zone Size	INV299	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Oxacillin Interpretation	Oxacillin Interpretation	INV300	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Antimicrobial Susceptibility Test Type	Antimicrobial Susceptibility Test Type would include drugs, enzymes, PCR and other genetic tests to detect the resistance against specific drugs.	LABAST6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Susceptibility Testing Performing Lab Type	Susceptibility testing performing lab type	LABAST15	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Antimicrobial Susceptibility Test Method	Antimicrobial Susceptibility Test Method (e.g. E-Test, MIC, Disk Diffusion)	LABAST7	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Antimicrobial Susceptibility Test Interpretation	Antimicrobial Susceptibility Test Interpretation (e.g. Susceptible, Resistant, Intermediate, Not tested)	LABAST8	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.

IPD	Minimum Inhibitory Concentration Sign	Sign indicating whether the MIC is <, >, <=, >=, or = to the numerical MIC (minimum inhibitory concentration) value	LAB113	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	Antimicrobial Susceptibility Test Result Quantitative Value	Antimicrobial Susceptibility Test Result Numerical Value (Quantitative MIC values)	LABA519	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results and case classification.
IPD	VPD Lab Message Reference Laboratory	Vaccine Preventable Disease (VPD) reference laboratory that will be used along with the patient identifier and specimen identifier to uniquely identify a VPD lab message	LAB143	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDS cases.
IPD	VPD Lab Message Patient Identifier	VPD lab message patient identifier that will be used along with the reference laboratory and specimen identifier to uniquely identify a VPD lab message	LAB598	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDS cases.
IPD	VPD Lab Message Specimen Identifier	VPD lab message specimen identifier that will be used along with the patient identifier and reference laboratory to uniquely identify a VPD lab message	LAB125	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element can be used to establish capacity for linking VPD RC test results with NNDS cases.
IPD	Current Occupation	This data element is used to capture the narrative text of a subject's current occupation.	85658-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
IPD	Current Occupation Standardized	This data element is used to capture the CDC NIOSH standard occupation code based upon the narrative text of a subject's current occupation. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85659-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
IPD	Current Industry	This data element is used to capture the narrative text of subject's current industry.	85078-4	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
IPD	Current Industry Standardized	This data element is used to capture the CDC NIOSH standard industry code based upon the narrative text of a subject's current industry. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85657-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	

Data Element Priorities for Implementation of the Respiratory and Invasive Bacterial Diseases (RIBD) Message Mapping Guide (MMG)

Psittacosis

National Center for Immunization and Respiratory Diseases (NCIRD), Atlanta, Georgia

Version Date: 4/9/2020

THROUGHOUT THIS DOCUMENT:

- Columns A-E ("Condition," "Data Element Name," "Data Element Description," "Data Element Identifier," "CDC Priority") contain information from the current MMG for each condition (i.e., generic v2.0, *H. influenzae*, *N. meningitidis*, invasive pneumococcal disease, psittacosis, legionellosis).
- Column F ("NCIRD Priority") contains the programmatic priority designation of these data elements.
 - The data elements noted as priority 1 or priority 2 in column F are highlighted in dark green or light green, respectively, and are of HIGHEST and HIGH priority, respectively, for inclusion in HL7 message.
 - Jurisdictions' data collection processes and systems should be modified to collect priority 1 and 2 data.
 - Data elements noted as priority 3 in column F (highlighted in yellow) should be considered for inclusion in HL7 message but are not of highest or high priority.
 - Data elements noted as "Required" in column F (highlighted in orange) are mandatory for sending a case notification via HL7 message.
- Column G ("NCIRD Priority Description") includes standard guidance for each priority level.
- Column H ("Program-Specific Guidance for Implementation") includes the context and rationale for the priority designation, in addition to NCIRD guidance for the data element, where applicable.
- If you have questions about the content of this document, please contact the NCIRD Surveillance Data mailbox at NCIRDsurData@cdc.gov.

*RIBD v1.0 MMG dated 12/13/2019

Condition	Data Element (DE) Name	Data Element Description	Data Element (DE) Identifier	CDC Priority (as on MMG)	NCIRD Priority	NCIRD Priority Description	Program-Specific Guidance for Implementation (where applicable)
Psittacosis	Message Profile Identifier	Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.	N/A: MSH-21	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.	
Psittacosis	Current Occupation	This data element is used to capture the narrative text of a subject's current occupation.	85658-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Psittacosis	Current Occupation Standardized	This data element is used to capture the CDC NIOSH standard occupation code based upon the narrative text of a subject's current occupation. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85659-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Psittacosis	Current Industry	This data element is used to capture the narrative text of subject's current industry.	85078-4	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Psittacosis	Current Industry Standardized	This data element is used to capture the CDC NIOSH standard industry code based upon the narrative text of a subject's current industry. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85657-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	
Psittacosis	Signs and Symptoms	Indicate what symptoms of interest the patient had during the course of the illness	56831-1	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the clinical presentation of the cases to support case classification. In addition, this information also supports understanding of the epidemiology of the cases.
Psittacosis	Signs and Symptoms Indicator	Indicator for associated sign and symptom	INV919	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the clinical presentation of the cases to support case classification. In addition, this information also supports understanding of the epidemiology of the cases.
Psittacosis	Highest Measured Temperature	What was the subject's highest measured temperature during this illness?	81265-1	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Temperature Units	Units for highest measured temperature	N/A: OBX-6 for 81265-1	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Antibiotics Given	Did the subject take antibiotics as treatment for this illness?	INV559	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on treatment.
Psittacosis	Medication Administered	What antibiotic did the patient receive?	29303-5	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Medication Administered Dose	Total daily dose of the antibiotic received – For example doxycycline 100mg twice per day would be recorded as doxycycline 200mg	18615-5	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Antibiotic Dose Units	Dose units of the antibiotic received	N/A: OBX-6 for 18615-5	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Date Treatment or Therapy Started	Start date of antibiotic	86948-7	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Date Treatment or Therapy Stopped	Stop date of antibiotic	63939-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Treatment Duration	Number of days the patient actually took the antibiotic	67453-1	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	

Psittacosis	Hospital ICU	During any part of the hospitalization, did the subject stay in an Intensive Care Unit (ICU) or a Critical Care Unit (CCU)?	30990401	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update Jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on disease severity. Please answer if Hospitalized = Y (Generic V2_DE identifier 77974-4).
Psittacosis	Laboratory Testing Performed	Was laboratory testing done to confirm the diagnosis?	LAB630	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCIIRD has consequently assigned a "highest priority" designation to this data element, as NCIIRD appropriately does not apply an algorithm to impute these responses.
Psittacosis	Laboratory Confirmed	Was the case laboratory confirmed?	INV164	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Although an algorithm could impute a response of "Yes" for this data element if any laboratory data are provided in the case notification, laboratory data are often missing (especially early in the investigation). Therefore, it would not be appropriate to impute a response of "No" for this data element when no laboratory data are entered. NCIIRD has consequently assigned a "highest priority" designation to this data element, as NCIIRD appropriately does not apply an algorithm to impute these responses.
Psittacosis	Test Type	Epidemiologic interpretation of the type of test(s) performed for this case.	INV290	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
Psittacosis	Titer Test Type	If this is a titer, indicate if this is an initial/acute or convalescent titer (Titer Test Type)	LAB653	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Data elements related to antibody titer results are used for psittacosis case classification.
Psittacosis	Titer Test Method	If this is a titer, indicate the methodology used for acute and/or convalescent titer (Titer test method)	LAB654	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Data elements related to antibody titer results are used for psittacosis case classification.
Psittacosis	Organism Name	Bacterial species identified	LAB278	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Organism name is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
Psittacosis	Test Result	Epidemiologic interpretation of the results of the test(s) performed for this case. This is a qualitative test result (e.g. positive, detected, negative)	INV291	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test result is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
Psittacosis	Specimen Type	Specimen type from which the organism was identified	66746-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
Psittacosis	Specimen Collection Date/Time	Date of specimen collection	68963-8	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen collection date is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.
Psittacosis	Test Result Quantitative	Quantitative Test Result Value	LAB628	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Data elements related to antibody titer results are used for psittacosis case classification. Please use the Quantitative Test Result and Result Units data elements to send titer results for serologic tests.

Psittacosis	Result Units	Units of measure for the Quantitative Test Result Value	LAB115	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Data elements related to antibody titer results are used for psittacosis case classification. Please use the Quantitative Test Result and Result Units data elements to send titer results for serologic tests.
Psittacosis	Performing Laboratory Type	Performing laboratory type	82771-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on whether a CDC laboratory, VPD Reference Center or other type of laboratory performed the test, which is important for linking results to specific cases and for assessing the applicability of the test results.
Psittacosis	Performing Laboratory Name	Reporting laboratory name	68994-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Performing lab name is used to interpret the lab results, such as providing information on the kind of serologic test that was performed.
Psittacosis	Test Manufacturer	Test Manufacturer	LAB650	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test manufacturer provides information about how the test results should be interpreted and may help to fully describe the lab testing and test results.
Psittacosis	Specimen Sent to CDC	Was a specimen sent to CDC for testing?	82314-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This information assists CDC in linking the specimen identifier and CDC-tested lab results.
Psittacosis	Date Specimen Sent to CDC	Date specimen sent to CDC	85930-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	If a specimen is sent to CDC, it is important to know when it was sent to assist in locating/identifying test results for specific cases.
Psittacosis	Autopsy Specimen Type	Type of autopsy specimen	LAB655	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is of highest priority specifically for cases with diagnosis based on an autopsy specimen. Please update jurisdiction surveillance activities to collect this case information and also revise NNDS data collection interface to support entry/submission of data for this element. This data element is only populated for cases where an autopsy was done.
Psittacosis	Result of Autopsy	Autopsy result	85691-4	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is of highest priority specifically for cases with diagnosis based on an autopsy specimen. Please update jurisdiction surveillance activities to collect this case information and also revise NNDS data collection interface to support entry/submission of data for this element. This data element is only populated for cases where an autopsy was done.
Psittacosis	Date of Autopsy	Date of autopsy (date autopsy specimen collected)	75711-2	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is of highest priority specifically for cases with diagnosis based on an autopsy specimen. Please update jurisdiction surveillance activities to collect this case information and also revise NNDS data collection interface to support entry/submission of data for this element. This data element is only populated for cases where an autopsy was done.
Psittacosis	Autopsy Laboratory Name	Autopsy Laboratory Name	LAB656	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is of highest priority specifically for cases with diagnosis based on an autopsy specimen. Please update jurisdiction surveillance activities to collect this case information and also revise NNDS data collection interface to support entry/submission of data for this element. This data element is only populated for cases where an autopsy was done.
Psittacosis	Chest X-ray for Pneumonia	Result of chest x-ray for pneumonia	INV923	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the clinical presentation of the cases to support case classification. In addition, this information also supports understanding of the epidemiology of the cases.
Psittacosis	Date of Chest X-ray	Date of Chest X-ray	INV1096	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the clinical presentation of the cases to support case classification. In addition, this information also supports understanding of the epidemiology of the cases.
Psittacosis	Occupation at Date of Onset	Occupation at date of onset	INV1099	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.

Psittacosis	Industry at Date of Onset	Industry at date of onset	INV100	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Occupational Duties	Occupational duties	INV108	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Personal Protective Equipment	At the time of exposure, which of the following personal protective equipment was used by the patient?	INV1047	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases and psittacosis prevention.
Psittacosis	Respiratory Protective Equipment	If respiratory protective equipment was used at the time of exposure, specify what kind	INV1048	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases and psittacosis prevention.
Psittacosis	Annual Respirator Fit Testing and Training	Does the patient get annual respirator fit testing and training?	INV1049	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Glove Material	If gloves were used, specify glove material	INV1050	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	
Psittacosis	Contact Type	Indicate which of the following contacts patient had during 5 weeks prior to onset	INV603	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Bird Type	What type of bird did the patient have contact with during the 5 weeks prior to onset?	INV1051	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Bird Species	Bird species	INV1052	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Number of Birds	Approximate number of birds	INV1053	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Healthy Bird	Were the birds healthy?	INV1054	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Non-Healthy Bird Details	Non-healthy bird exposure detail	INV1055	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Type of Establishment Where Exposure Occurred	Type of establishment where the exposure occurred	INV102	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.

Psittacosis	Name of Establishment Where Exposure Occurred	Name of establishment where the exposure occurred	INV1056	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Address of Establishment Where Exposure Occurred	Address of establishment where the exposure occurred	INV1057	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Transmission Setting	Exposure setting	81267-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Date of Exposure	Date of exposure	INV1058	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.
Psittacosis	Case Investigation Status Code	Case Investigation Status Code	INV109	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element refers to the local case investigation status. CDC guidance is to submit notifications early in the investigation, rather than waiting until the investigation is finalized. However, NCIRD understands that some jurisdictions may have jurisdiction-specific requirements for the timing of case notifications.
Psittacosis	Patient Address City	Patient Address City	N/A: PID-11.3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This information is often used to support specificity in communications between CDC and jurisdictions when providing follow-up and technical assistance.
Psittacosis	Illness Onset Age	Illness onset age	INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.
Psittacosis	Illness Onset Age Units	Illness onset age units	N/A: OBX-6 for INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.

Data Element Priorities for Implementation of the Respiratory and Invasive Bacterial Diseases (RIBD) Message Mapping Guide (MMG)

Legionellosis

National Center for Immunization and Respiratory Diseases (NCIRD), Atlanta, Georgia
Version Date: 4/9/2020

THROUGHOUT THIS DOCUMENT:

- Columns A-E ("Condition," "Data Element Name," "Data Element Description," "Data Element Identifier," "CDC Priority") contain information from the current MMG for each condition (i.e., generic v2.0, *H. influenzae*, *N. meningitidis*, invasive pneumococcal disease, psittacosis, legionellosis).
- Column F ("NCIRD Priority") contains the programmatic priority designation of these data elements.
 - The data elements noted as priority 1 or priority 2 in column F are highlighted in dark green or light green, respectively, and are of HIGHEST and HIGH priority, respectively, for inclusion in HL7 message.
 - Jurisdictions' data collection processes and systems should be modified to collect priority 1 and 2 data.
 - Data elements noted as priority 3 in column F (highlighted in yellow) should be considered for inclusion in HL7 message but are not of highest or high priority.
 - Data elements noted as "Required" in column F (highlighted in orange) are mandatory for sending a case notification via HL7 message.
- Column G ("NCIRD Priority Description") includes standard guidance for each priority level.
- Column H ("Program-Specific Guidance for Implementation") includes the context and rationale for the priority designation, in addition to NCIRD guidance for the data element, where applicable.
- If you have questions about the content of this document, please contact the NCIRD Surveillance Data mailbox at NCIRDsurData@cdc.gov.

*RIBD v1.0 MMG dated 12/13/2019

Condition	Data Element (DE) Name	Data Element Description	Data Element (DE) Identifier	CDC Priority (as on MMG)	NCIRD Priority	NCIRD Priority Description	Program-Specific Guidance for Implementation (where applicable)	SLDSS Mapping Information
Legionellosis	Message Profile Identifier	Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.	N/A; MSH-21	R	Required	This data element is mandatory for sending a message . If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes.		N/A
Legionellosis	Legionella Diagnosis	Legionellosis Diagnosis	INV1059	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.	Legiontype
Legionellosis	Hospital Name	Hospital Name where patient was hospitalized during treatment for legionellosis	SB237-9	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	Hospcasena
Legionellosis	City of Treatment Hospital	City where patient was hospitalized during treatment for legionellosis	INV1060	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	Hospcity
Legionellosis	State of Treatment Hospital	State where patient was hospitalized during treatment for legionellosis	INV1061	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	Hospstate
Legionellosis	Case Investigation Status Code	Case investigation status code	INV109	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This data element refers to the local case investigation status. CDC guidance is to submit notifications early in the investigation, rather than waiting until the investigation is finalized. However, NCIRD understands that some jurisdictions may have jurisdiction-specific requirements for the timing of case notifications.	N/A
Legionellosis	Patient Address City	Patient address city	N/A; PID-113	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.	This information is often used to support specificity in communications between CDC and jurisdictions when providing follow-up and technical assistance.	N/A
Legionellosis	Illness Onset Age	Age at illness onset	INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.	Age
Legionellosis	Illness Onset Age Units	Age units at illness onset	N/A; OBX-6 for INV143	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides important epidemiologic information. Although age at case investigation is included in the Generic V2 MMG, NCIRD recognizes that some jurisdictions may collect age information specific to onset. In addition, the CDC program will not be able to calculate illness onset age if a case is missing responses for age at case investigation, illness onset date, or date of birth. Please map to this data element if you have the data available, and consider adding illness onset age to your surveillance system if you do not.	AgeUnit
Legionellosis	Nights Away From Home	In the 14 days before onset, did the patient spend any nights away from home (excluding healthcare settings)?	INV1062	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	TravelHistory
Legionellosis	Name of Accommodation	Accommodation Name where patient spent nights away from home	TRAVEL42	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	HotelName
Legionellosis	Street Address of Accommodation	Street Address where patient spent nights away from home	TRAVEL43	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	TravelAddr

Legionellosis	State of Accommodation	State where patient spent nights away from home	TRAVEL44	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/State
Legionellosis	City of Accommodation	City where patient spent nights away from home	TRAVEL45	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/City
Legionellosis	Country of Accommodation	Country where patient spent nights away from home	TRAVEL46	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/Country
Legionellosis	Accommodation Room Number	Room Number (at the accommodation) where patient spent nights away from home	TRAVEL47	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Room
Legionellosis	Accommodation Comments	Comments or information about nights away from home not collected elsewhere	TRAVEL48	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/Comm
Legionellosis	Date Checked Into Accommodation	Arrival Date of Stay	TRAVEL49	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/Checkin
Legionellosis	Date Checked Out of Accommodation	Departure Date of Stay	TRAVEL50	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/Checkout
Legionellosis	Zip Code of Accommodation	Zip code where patient spent nights away from home	TRAVEL51	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of travel and accommodation-associated exposures, used for both surveillance and real time public health response.	Travel/Zip
Legionellosis	Healthcare Setting	In the 14 days before onset, did the patient visit or stay in a healthcare setting (e.g., hospital, long term care/rehab/skilled nursing facility, clinic)? For additional guidance on how to categorize healthcare settings, please refer to Section 3. Travel, Healthcare, and Other Exposure Information at: https://www.cdc.gov/legionella/health-depts/sur-reporting/form-instructions.html .	INV1063	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements. If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Visit/Hospital
Legionellosis	Transmission Setting	Type of Healthcare Setting/Facility visited in the 14 days before onset	81267-7	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Setting
Legionellosis	Healthcare Setting Exposure Type	Type of Exposure to healthcare setting	INV1064	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Exposure
Legionellosis	Healthcare Facility Name	Name of Facility visited by patient in the 14 days before onset	76696-4	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Facility
Legionellosis	Transplant Center	Is This Facility Also a Transplant Center?	INV1065	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Transplant

Legionellosis	Healthcare Facility Reason Visited	Reason For Visit	INV1066	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Reason
Legionellosis	Address of Healthcare Facility	Street Address of healthcare facility visited by the patient in the 14 days before onset	65833-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	N/A
Legionellosis	City of Healthcare Facility	City where the healthcare facility visited by the patient is located	65647-0	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	City
Legionellosis	State of Facility	State where the healthcare facility visited by the patient is located	68488-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	State
Legionellosis	Zip Code of Healthcare Facility	Zip code of healthcare facility visited by the patient in the 14 days before onset	65648-8	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	N/A
Legionellosis	Date Arrived at Healthcare Facility	Start Date of Visit/Admission	INV1067	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Arrive
Legionellosis	Date Departed Healthcare Facility	End Date of Visit/Admission	INV1068	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Depart
Legionellosis	Healthcare Setting Exposure Comments	Comments or information about healthcare setting exposure not collected elsewhere	INV1069	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	N/A
Legionellosis	Healthcare Facility Water Management Program	Did the healthcare facility have a water management program to reduce the risk of legionella growth and spread in place?	INV1070	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Associated Healthcare Exposure	Was this case associated with a healthcare exposure?	INV1071	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection systems should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of healthcare-associated exposures.	Nosocomial
Legionellosis	Assisted/Senior Living Facility	In the 14 days before onset, did the patient visit or stay in an assisted living facility or senior living facility?	INV1072	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection systems should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	Assisted
Legionellosis	Associated Assisted/Senior Living Facility Exposure	Was this case associated with an assisted/senior living facility exposure?	INV1073	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	N/A
Legionellosis	Assisted/Senior Living Facility Type	Type of Facility visited/lived in by the patient in the 14 days before onset	INV1074	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	TypeFac
Legionellosis	Assisted/Senior Living Facility Exposure Type	Type of Exposure to assisted/senior living facility by the patient (resident, visitor/volunteer, employee)	INV1075	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	ExpType
Legionellosis	Assisted/Senior Living Facility Name	Name of assisted/senior living facility visited/lived in by patient	INV1076	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	NameFac
Legionellosis	Street Address of Assisted/Senior Living Facility	Street address of assisted/senior living facility visited/lived in by the patient during exposure	INV1077	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	N/A
Legionellosis	City of Assisted/Senior Living Facility	City where the assisted/senior living facility visited/lived in by the patient is located	INV1078	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	CityFac

Legionellosis	State of Assisted/Senior Living Facility	State where the assisted/senior living facility visited/lived in by the patient is located	INV1079	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	StateFac
Legionellosis	Zip Code of Assisted/Senior Living Facility	Zip code of assisted/senior living facility visited/lived in by the patient during exposure	INV1080	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	N/A
Legionellosis	Date Arrived Assisted/Senior Living Facility	Start Date of Visit/Residence	INV1081	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	ArriveFac
Legionellosis	Date Departed From The Assisted/Senior Living Facility	End Date of Visit/Residence	INV1082	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	DepartFac
Legionellosis	Assisted/Senior Living Facility Comments	Comments or information about assisted/senior living facility exposure not collected elsewhere	INV1083	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on the epidemiology of senior or assisted living-associated exposures.	N/A
Legionellosis	Assisted/Senior Living Facility Water Management Program	Did the assisted/senior living facility have a water management program to reduce the risk of Legionella growth and spread in place?	INV1084	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Exposure	Was the patient exposed to any of the following during the 14 days prior to onset?	INV1085	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases. While most values would be prioritized as 2, some values, such as hot tub exposure, are already collected, and should be prioritized as a 1.	Spa, Equipment
Legionellosis	Exposure Indicator	Exposure Indicator	INV1086	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases. While most values would be prioritized as 2, some values, such as hot tub exposure, are already collected, and should be prioritized as a 1.	Spa, Equipment
Legionellosis	Location of Exposure	Location of exposure (e.g. facility name, city, state)	INV1087	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	SpaPlace
Legionellosis	Date(s) of exposure	Date(s) of exposure	INV1088	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	SpaDates
Legionellosis	Humidifier	In the 14 days before onset, if the patient used a nebulizer, CPAP, BiPAP, or any other respiratory therapy equipment for the treatment of sleep apnea, COPD, asthma, or for any other reason, does this device use a humidifier?	INV1089	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	Humidifier
Legionellosis	Respiratory Therapy Equipment Water Source	If the respiratory therapy equipment used a humidifier, what type of water is used in the device?	INV1090	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	Sterile, Distilled, Bottled, Tap, Other, Unknown
Legionellosis	Recent Cruise Travel	In the 14 days before onset, did patient take a cruise?	473085002	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		Cruise
Legionellosis	Name of Cruise Line	Name of cruise line patient sailed with	TRAVEL52	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		Line
Legionellosis	Name of Ship	Name of ship patient sailed on	TRAVEL53	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		Ship
Legionellosis	Cruise Departure City	Cruise departure city	TRAVEL54	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		Port
Legionellosis	Cruise Departure State	Cruise departure state	TRAVEL55	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		DepartPortLocation
Legionellosis	Cruise Departure Country	Cruise departure country	TRAVEL56	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		DepartPortLocation
Legionellosis	Date of Cruise Departure	Cruise departure date	TRAVEL57	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		DepartDate
Legionellosis	Cruise Return City	Cruise return city	TRAVEL58	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		ReturnPort
Legionellosis	Cruise Return State	Cruise return state	TRAVEL59	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		ReturnPortLocation
Legionellosis	Cruise Return Country	Cruise return country	TRAVEL60	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		ReturnPortLocation
Legionellosis	Date of Cruise Return	Cruise return date	TRAVEL61	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		ReturnDate
Legionellosis	Cabin Number	Patient's cruise ship cabin number	TRAVEL62	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		CabinNumber
Legionellosis	Port of Call City	Port of call city	TRAVEL63	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		PortOfCall

Legionellosis	Port of Call Country	Port of call country	TRAVEL66	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		PortOfCall
Legionellosis	Port of Call State	Port of call state	TRAVEL64	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Port of Call Date	Date for port of call	TRAVEL65	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		CallDate
Legionellosis	CDC NORS Outbreak ID	CDC National Outbreak Reporting System (NORS) Outbreak ID#	INV883	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Did Underlying Condition(s) Exist	Did the patient have any underlying causes or prior illnesses?	INV235	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.	N/A
Legionellosis	Underlying Condition(s)	Listing of underlying causes or prior illnesses	INV236	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.	N/A
Legionellosis	Underlying Conditions Indicator	Underlying conditions indicator	INV662	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data provides clinical and epidemiologic information about the disease occurrence.	N/A
Legionellosis	Current Occupation	This data element is used to capture the narrative text of a subject's current occupation.	85658-3	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element supports understanding of the epidemiology of the cases.	Occupation
Legionellosis	Current Occupation Standardized	This data element is used to capture the CDC NIOSH standard occupation code based upon the narrative text of a subject's current occupation. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85659-1	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.		N/A
Legionellosis	Current Industry	This data element is used to capture the narrative text of subject's current industry.	85078-4	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.		N/A
Legionellosis	Current Industry Standardized	This data element is used to capture the CDC NIOSH standard industry code based upon the narrative text of a subject's current industry. The National Institute for Occupational Safety and Health (NIOSH) has developed a web-based software tool designed to translate industry and occupation text to standardized Industry and Occupation codes. The NIOSH Industry and Occupational Computerized Coding System (NIOCCS) is available here: http://www.cdc.gov/niosh/topics/coding/overview.html	85657-5	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.		N/A
Legionellosis	Text Type	Laboratory Diagnostic Test Type	INV290	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.	Urine, Culture, Fourfold, DFA, PCR
Legionellosis	Specimen Collection Date/Time	Date of Specimen Collection	68963-8	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen collection date is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.	UrineDt, CultureDt, Date1, Date2, OFADt, PCRDt
Legionellosis	Titer Test Type	If this is a titer, indicate if this is an initial/acute or convalescent titer (Titer Test Type)	LAB653	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Specimen Type	Specimen Type from which organism was isolated	66746-9	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Specimen type is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.	CultSite, OthSite, DFASite, PCROther
Legionellosis	Organism Name	Legionella species isolated	LAB278	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Organism name is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.	Species, fSpecies, PCRSpec
Legionellosis	Test Result	Epidemiologic interpretation of the results of the test(s) performed for this case. This is a qualitative result (e.g. positive, detected, negative)	INV291	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	Test result is a key component of the epi lab repeating group and is important for fully describing the lab testing and test results.	Urine, Culture, Fourfold, DFA, PCR
Legionellosis	Test Result Quantitative	Quantitative Test Result Value	LAB628	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Result Units	Units of measure for the Quantitative Test Result Value	LAB115	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A

Legionellosis	Serogroup	What was the serogroup	INV705	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element is important for obtaining a complete picture of the lab results.	Serogrip, fSero, PCRSero
Legionellosis	Performing Laboratory Type	Performing laboratory type	82771-7	P	1	This data element is of highest priority for reporting. These data elements are critical for national surveillance activities. Jurisdiction's data collection system should be modified to collect Priority 1 data elements . If this data element is not currently collected and available to send, please discuss with the CDC Program whether you can onboard without that element being available and included in the messages. Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This data element provides information on whether a CDC laboratory, VPD Reference Center or other type of laboratory performed the test, which is important for linking results to specific cases and for assessing the applicability of the test results.	N/A
Legionellosis	Performing Laboratory Name	Reporting laboratory name	68994-3	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Test Manufacturer	Test manufacturer	LAB650	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Test Brand Name	Test Brand Name	LAB657	P	3	This is a lower priority data element that should be considered for inclusion in the surveillance system and case notification. Please send if currently collected in the system.		N/A
Legionellosis	Specimen Sent to CDC	Was a specimen sent to CDC for testing?	82314-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	This information assists CDC in linking the specimen identifier and CDC-tested lab results.	N/A
Legionellosis	Date Specimen Sent to CDC	Date specimen sent to CDC	85930-6	P	2	This is a high priority data element that will support national surveillance activities. If this data element is not currently collected and available to send, please plan to update jurisdiction's data collection system . Some CDC programs may request a plan addressing future inclusion of these data elements, if not able to collect and transmit at onboarding.	If a specimen is sent to CDC, it is important to know when it was sent to assist in locating/identifying test results for specific cases.	N/A