

Immunization

CSTE DSWG Data Element Specific Team

12/15/2023



Council of State and Territorial Epidemiologists

Please mute phone/ headset/ computer audio!

Agenda

- Welcome & Announcements
- Immunization Background Summary
- Immunization Discussion/Polling
- Next Steps
- Wrap-Up & Adjourn

Meeting ground rules



- Discussion Guidelines
 - "Raise" your hand
 - Use the chat to provide feedback and ask questions
 - When called, state your name and affiliation
 - Stay on point, be brief, and within the context of the discussion in progress
 - 80/20 consensus
 - Co-Chairs/moderators' prerogative to move the discussion forward as needed
 - [Post-meeting input form](#) is always available for additional comment
 - Be courteous and be open to new ideas

Active participation encouraged for all!

- Chats, voting, comments, etc.
- Includes STLT jurisdictions + CDC Programs + CSTE, etc.

Core Data: In Scope for DSWG



- Identify core data elements for surveillance **for transmission to CDC**
 - For situational awareness or routine, cross-condition case surveillance
 - For case-based surveillance (not syndromic, not aggregate reporting)
 - Within *selected* data classes (e.g., hospitalization, travel history) that are used for multiple conditions
- Identify common definitions, value sets/code sets, structure, and interpretation notes for those core data elements
- Recommend best practices for how selected data elements are collected, structured or populated within PHA surveillance systems, if/when that will affect the interpretation of the data transmitted to CDC

Core for CDC Transmission ≠ Required

Even if a data element or class is identified as appropriate for transmission to CDC, this does *not* mean we need to fill in or send an answer for every core element for every case!

- It is okay to leave the data field as blank or Unknown if the information is not available, not a priority, or not useful for particular conditions.

Data elements and data classes should be considered for core if they are relevant for many conditions

- There is no set number that defines "many".
- Would you rather see the element in (for example) a GenV3 MMG? or in the applicable disease-specific MMGs?

Background Information: Immunization



Potential data elements related to Immunization



- Vaccine Type
- Vaccine Administered Date
- Vaccine Dose Number
- Vaccine Manufacturer
- Vaccine Lot Number
- Vaccine Expiration Date
- National Drug Code (NDC)
- Vaccination Record Identifier
- Vaccine Event Information Source
- Did the subject ever receive a vaccine against this disease
- Vaccinated Per ACIP Recommendations
- Reasons Not Vaccinated Per ACIP Recommendations
- Vaccination Doses Prior to Onset
- Date of Last Dose Prior to Illness Onset
- Vaccine History Comments
- Number of Doses received Before 1st Birthday
- Source of Mother's Vaccine Information
- Were Any of the Children Living in the Household Immunized With Rubella-Containing Vaccine

CDC endorsed data elements

○ Patient Demographic

- Name
- Address
- Identifiers

○ Vaccination Event

- Manufacturer name
- Route of administration
- Vaccination event ID
- Product
- Site of administration
- Ordering provider
- Sending organization
- Responsible organization

Case Notifications to CDC

Message Mapping Guides (MMGs)



Vaccine History Repeating Group (VHRG)

- FDD S. Typhi and S. Paratyphi, RIBD H Flu, RIBD N meningitidis, ABCs Invasive Pneumococcal Disease, ABCs N meningitidis, ABCs H influenzae, COVID-19, Pertussis, Varicella, Mumps, Rubella, Congenital Rubella Syndrome, and Measles

Data Element (DE) Name	DE Identifier Sent in HL7 Message	Data Element Description	Data Type	Value Set Name (VADS Hyperlink)
START: Preferred Vaccination History Repeating Group Section				
Vaccine Type	30956-7	The type of vaccine administered for the condition being reported	Coded	Vaccine Type (NND)
Vaccine Administered Date	30952-6	The date that the vaccine was administered	Date	N/A
Vaccine Dose Number	30973-2	The dose number in a series	Numeric	N/A
Vaccine Manufacturer	30957-5	The company which manufactured the vaccine	Coded	Manufacturers of vaccines (MVX)
Vaccine Lot Number	30959-1	The lot number for the vaccine administered	Text	N/A
Vaccine Expiration Date	VAC109	The expiration date for the vaccine administered	Date	N/A
National Drug Code (NDC)	VAC153	NDC from the vaccine's bar code can be used to obtain vaccine brand name and manufacturer	Text	N/A
Vaccination Record Identifier	VAC102	Vaccination record identifier	Text	N/A
Vaccine Event Information Source	VAC147	The information source for this vaccination record	Coded	Vaccine Event Information Source (NND)
END: Preferred Vaccination History Repeating Group Section				

Case Notifications to CDC

Message Mapping Guides (MMGs)



Interpretive Vaccine History Questions:

- Varicella, COVID-19, Rubella, Pertussis, RIBD H Flu , RIBD N meningitidis , ABCs Invasive Pneumococcal Disease, ABCs N meningitidis , ABCs H influenzae, Congenital Rubella Syndrome, Measles, Hepatitis v2 (draft)

Data Element (DE) Name	DE Identifier Sent in HL7 Message	Data Element Description	Data Type	Value Set Name (VADS Hyperlink)
START: Interpretive Vaccine History Questions				
Did the Subject Ever Receive a Vaccine Against This Disease	VAC126	Did the subject ever receive a vaccine against this disease?	Coded	Yes No Unknown (YNU)
Vaccination Doses Prior to Onset	82745-1	Number of vaccine doses against this disease prior to illness onset	Numeric	N/A
Date of Last Dose Prior to Illness Onset	VAC142	Date of last vaccine dose against this disease prior to illness onset	Date	N/A
Vaccinated per ACIP Recommendations	VAC148	Was subject vaccinated as recommended by the Advisory Committee on Immunization Practices (ACIP)?	Coded	Yes No Unknown (YNU)
Reason Not Vaccinated Per ACIP Recommendations	VAC149	Reason subject not vaccinated as recommended by ACIP	Coded	Vaccine Not Given Reason
Vaccine History Comments	VAC133	Comments about the subject's vaccination history	LongText	N/A
END: Interpretive Vaccine History Questions				

Discussion: Immunization



Discussion



Vaccine History Repeating Group	Interpretive Vaccine History (no repeat)
Vaccine Type (CVX)	Did the subject ever receive a vaccine against this disease?
Vaccine Administered Date	Vaccination Doses Prior to Illness Onset
Vaccine Dose Number	Date of Last Dose Prior to Illness Onset
Vaccine Manufacturer (MVX)	Vaccinated per ACIP Recommendations?
Vaccine Lot Number	Reason Not Vaccinated Per ACIP Recommendations
Vaccine Expiration Date	Vaccine History Comments
National Drug Code (NDC)	
Vaccination Record Identifier	
Vaccine Event Information Source	

Vaccine Repeating Group



Vaccine History Repeating Group

Vaccine Type (CVX)

Vaccine Administered Date

Vaccine Dose Number

Vaccine Manufacturer (MVX)

Vaccine Lot Number

Vaccine Expiration Date

National Drug Code (NDC)

Vaccination Record Identifier

Vaccine Event Information Source

1

2

3

Vaccine Repeating Group



- Are these data elements core? Are there complications or issues with collecting any of these?

Data Element	Definition	Value Set
Vaccine Type (CVX)	The type of vaccine administered for the condition being reported.	Condition-specific Utilizes CVX codes
Vaccine Administered Date	The date that the vaccine was administered	Date
Vaccine Dose Number	The dose number in a series	Numeric

Vaccine Repeating Group



- Are these data elements core? Are there complications or issues with collecting any of these?

Data Element	Definition	Value Set
Vaccine Manufacturer	The company which manufactured the vaccine	PHVS ManufacturersOf Vaccines MVX CDC NIP
Vaccine Lot Number	The lot number for the vaccine administered	Text
Vaccine Expiration Date	The expiration date for the vaccine administered	Date
National Drug Code	NDC from the vaccine's bar code.	Text

Vaccine Repeating Group



- Are these data elements core? Are there complications or issues with collecting any of these?

Data Element	Definition	Value Set
Vaccination Record Identifier	Vaccination record identifier	Text
Vaccine Event Information Source	The information source for this vaccination record	PHVS_VaccineEventInformationSource_NND

Vaccine Event Information Source Value Set



Concept Code Concept Name

184225006	Computer record of patient (record artifact)
06	Historical information - from birth certificate
02	Historical information - from other provider
05	Historical information - from other registry
PHC1435	Historical information - from patient or parent's recall
PHC1436	Historical information - from patient or parent's written record
08	Historical information - from public agency
07	Historical information - from school record
01	Historical information - source unspecified
PHC1936	Immunization Information System
00	New immunization record
OTH	other
PP	Primary Care Provider
UNK	unknown

Polling process



- Poll questions will be shown first on a slide before poll opens
 - Opportunity for clarifications & questions
- Questions will be mostly "Select all that you think are core"
 - Feel free to abstain if you don't have a preference or don't feel strongly
 - There will be an option for "none"
- Opportunity for limited discussion on questions with a big split

Core for CDC Transmission ≠ Required

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- It is okay to leave the data field as blank or Unknown if the information is not available, not a priority, or not useful for particular conditions.

Data elements and data classes should be considered for core if they are relevant for many conditions

- There is no set number that defines "many".
- Would you rather see the element in (for example) a GenV3 MMG? or in the applicable disease-specific MMGs?

Select all of the data elements that should be considered core data elements.

Data Element	Definition	Value Set
Vaccine Type (CVX)	The type of vaccine administered for the condition being reported.	Condition-specific Utilizes CVX codes
Vaccine Administered Date	The date that the vaccine was administered	Date
Vaccine Dose Number	The dose number in a series	Numeric

Reminder:

Core data for surveillance = Data classes or elements used for situational awareness or routine, cross-condition case surveillance for transmission to CDC. These elements may remain empty for cases/conditions where not applicable or unavailable.

Select all of the data elements that should be considered core data elements.

Data Element	Definition	Value Set
Vaccine Manufacturer	The company which manufactured the vaccine	PHVS ManufacturersOf Vaccines MVX CDC NIP
Vaccine Lot Number	The lot number for the vaccine administered	Text
Vaccine Expiration Date	The expiration date for the vaccine administered	Date
National Drug Code	NDC from the vaccine's bar code.	Text

Select all of the data elements that should be considered core data elements.

Data Element	Definition	Value Set
Vaccination Record Identifier	Vaccination record identifier	Text
Vaccine Event Information Source	The information source for this vaccination record	PHVS_VaccineEventInformationSource_NND

Reminder:

Core data for surveillance = Data classes or elements used for situational awareness or routine, cross-condition case surveillance for transmission to CDC. These elements may remain empty for cases/conditions where not applicable or unavailable.

Interpretive Vaccine History (no repeat)

Did the subject ever receive a vaccine against this disease?

Vaccination Doses Prior to Illness Onset

Date of Last Dose Prior to Illness Onset

Vaccinated per ACIP Recommendations?

Reason Not Vaccinated Per
ACIP Recommendations

Vaccine History Comments

1

2

3

- Are these data elements core? Are there complications or issues with collecting any of these?

Data Element	Definition	Value Set
Did the subject ever receive a vaccine against this disease?	Did the subject ever receive a vaccine against this disease?	Yes/No/Unknown
Vaccination Doses Prior to Illness Onset	Number of vaccine doses against this disease prior to illness onset	Numeric
Date of Last Dose Prior to Illness Onset	Date of last vaccine dose against this disease prior to illness onset	Date

- Are these data elements core? Are there complications or issues with collecting any of these?

Data Element	Definition	Value Set
Vaccinated per ACIP Recommendations?	Was subject vaccinated as recommended by the Advisory Committee on Immunization Practices (ACIP)?	Yes/No/Unknown
Reason Not Vaccinated Per ACIP Recommendations	Reason subject not vaccinated as recommended by ACIP	PHVS VaccineNotGivenReasons_CD

Reason Vaccine Not Given



Concept Code	Concept Name	Concept Code	Concept Name
PHC1313	Foreign Visitor	PHC95	Parent/Patient refusal
PHC1310	Immigrant	PHC93	Parent/patient report of previous disease
PHC82	Lab evidence of previous disease	PHC1314	Parent/Patient unaware of recommendation
PHC83	MD diagnosis of previous disease	PHC92	Philosophical objection
397745006	Medical contraindication	PHC96	Religious exemption
PHC1311	Missed opportunity in medical setting	PHC1312	Too Young
OTH	Other	UNK	unknown
PHC94	Parent/Patient forgot to vaccinate	C4698055	Vaccine not available
		PHC1315	Vaccine record incomplete/unavailable

- Is this data element core? Are there complications or issues with collecting any of this?

Data Element	Definition	Value Set
Vaccine History Comments	Comments about the subject's vaccination history	Text

Interpretive Group Poll 1



Select all of the data elements that should be considered core data elements.

Data Element	Definition	Value Set
Did the subject ever receive a vaccine against this disease?	Did the subject ever receive a vaccine against this disease?	Yes/No/Unknown
Vaccination Doses Prior to Illness Onset	Number of vaccine doses against this disease prior to illness onset	Numeric
Date of Last Dose Prior to Illness Onset	Date of last vaccine dose against this disease prior to illness onset	Date

Reminder:

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Interpretive Group Poll 2



Select all of the data elements that should be considered core data elements.

Data Element	Definition	Value Set
Vaccinated per ACIP Recommendations?	Was subject vaccinated as recommended by the Advisory Committee on Immunization Practices (ACIP)?	Yes/No/Unknown
Reason Not Vaccinated per ACIP Recommendations	Reason subject not vaccinated as recommended by ACIP	PHVS VaccineNotGivenReasons_CDC

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Interpretive Group Poll 3



Is this data element a core data element?

- Yes
- No

Data Element	Definition	Value Set
Vaccine History Comments	Comments about the subject's vaccination history	Text

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Potential data elements related to Immunization



- ~~Vaccine Type~~
- ~~Vaccine Administered Date~~
- ~~Vaccine Dose Number~~
- ~~Vaccine Manufacturer~~
- ~~Vaccine Lot Number~~
- ~~Vaccine Expiration Date~~
- ~~National Drug Code (NDC)~~
- ~~Vaccination Record Identifier~~
- ~~Vaccine Event Information Source~~
- ~~Did the subject ever receive a vaccine against this disease~~
- ~~Vaccinated Per ACIP Recommendations~~
- ~~Reasons Not Vaccinated Per ACIP Recommendations~~
- ~~Vaccination Doses Prior to Onset~~
- ~~Date of Last Dose Prior to Illness Onset~~
- ~~Vaccine History Comments~~
- Number of Doses received Before 1st Birthday
- Source of Mother's Vaccine Information
- Were Any of the Children Living in the Household Immunized With Rubella-Containing Vaccine

Polling – Additional Immunizations Elements



Are there any other immunization related variables that need to be further discussed as recommendations for core data for surveillance?

- Yes
- No

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Next Steps



- Look out for next steps via email. We will be sending out a poll between meetings to help inform further discussion.
- Upcoming team meetings:
 - 1/12 1-2pm ET– Exposure/Risk/Underlying Conditions (or SOGI 4?)
 - **1/19 1-2pm ET– Immunization** (or Death?)
 - [Link to Sign Up](#)
- The next large DSWG call will be at the end of February.

If you feel you are not receiving emails or invitations that you should be receiving, please check your junk/spam folder to make sure the messages aren't being filtered by your agency, and if no luck email Laura Lane at LLane@jmmichael consulting.com to verify.