ESSENCE-FL: HL7 Messaging Quick Reference Guide

Purpose

   This guide contains specifications for the collective data elements needed to meet the State of Florida's criteria for the Stage 3 Meaningful Use syndromic surveillance menu option. This guide should serve as a complement to the PHIN Messaging Guide for Syndromic Surveillance that was developed by the International Society for Disease Prevention in response to the Meaningful Use legislation. For detailed information on message structure, message segments, and HL7 vocabulary please refer to the PHIN Messaging Guide for Syndromic Surveillance found here: https://www.cdc.gov/nssp/documents/guides/syndrsurvmessagguide2_messagingguide_phn.pdf

Data Elements of Interest

Data Element	Location	Description	Value Set
Report Date/Time	EVN 2	Date and time of report transmission from original source (from treating facility)	YYYYMMDDHHmmss
Facility Name	EVN 7.1	Name of facility where the patient originally presented	Legal Business Name, No Punctuation. Must have distinct values for each ED/FSED.
Facility Identifier	EVN 7.2	National Provider Identifier	http://www.cms.gov/NationalProvIdentStand/
Medical Record Number	PID 3	Patient medical record number	Do not include SSN
Gender	PID 8	Gender of patient	F, M, O, U (female, male, other, unknown)
Race	PID 10	Race of Patient	http://phinvads.cdc.gov/vads/ViewValueSet.action?id=67D34BBC-617F-DD11-B38D-00188B398520
Patient City	PID 11.3	City of patient residence	
Patient State	PID 11.4	State of patient residence	Two letter abbreviations
Patient Zip	PID 11.5	ZIP Code of patient residence	Provide a minimum of 5 digits for domestic ZIP codes.
Patient Country	PID 11.6	Country of patient	https://phinvads.cdc.gov/vads/ViewValueSet.action?id=0D5F2E3C-15BF-E711-ACE2-0017A477041A Three letter abbreviations
Unique Patient ID	PID 18	Account number	

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Ethnicity	PID 22	Ethnicity of Patient	http://phinvads.cdc.gov/vads/ViewValue Set.action?id=35D34BBC-617F-DD11-B38D-00188B398520
Unique Visit ID	PV 1.19	Number specific to this encounter. If these data aren't collected, then send account number in PID-18.	
Patient Class	PV 1.2	Patient classification within facility	https://phinvads.cdc.gov/vads/ViewValu eSet.action?id=564F8F8B-E1DE-E411-8970-0017A477041A
Discharge Disposition	PV 1.36	Patient's anticipated location or status following ED/UC visit; The disposition of the patient at time of discharge (i.e., discharged to home, admitted as inpatient, expired, etc.).	https://phinvads.cdc.gov/vads/ViewValu eSet.action?id=9C24960D-3B7D-4B6A-B86B-8F101867BD4F
Visit Date/Time	PV 1.44	Date/Time of patient presentation	YYYYMMDDHHmmss The value in the messages should not change over the course of a patient's single encounter.
Disposition Date/Time	PV 1.45	Date and time of disposition	YYYYMMDDHHmmss
Diagnosis	DG 1.3	Diagnosis or injury code of patient condition	DG1-3-1 – Dx Code, DG1-3-2 Textual Description DG1-3-3 Coding System Prefer use of ICD10, will not accept values that do not use a coding system.
Diagnosis Type	DG 1.6	Qualifier for Diagnosis / Injury Code specifying type of diagnosis	https://phinvads.cdc.gov/vads/ViewValu eSet.action?oid=2.16.840.1.114222.4.11 .827
Chief Complaint	OBX	**Free text** chief complaint as reported by the patient at the time of registration	The actual data value occurs in the 5th field of the same OBX segment and is numeric. OBX|3|CWE|8661-1^CHIEF COMPLAINT:FIND:PT:PATIENT:NOM: REPORTED^LN||^^^^^^^STOMACH ACHE||||||F|||201102171531 Concept Code: 8661-1
Age	OBX	Free Text Numeric value of patient age, including units in OBX-6 using UCUM:	The actual data value occurs in the 5th field of the same OBX segment and is numeric.

		https://ucum.nlm.nih.gov/example-UCUM-Codes-v1.4.pdf	Concept Code: 21612-7
Pulse Oximetry	OBX	1st recorded pulse oximetry value, including units in OBX-6 using UCUM: https://ucum.nlm.nih.gov/example-UCUM-Codes-v1.4.pdf	The actual data value occurs in the 5th field of the same OBX segment and is numeric. Concept Code: 59408-5
Initial Temperature	OBX	1st recorded temperature, including units in OBX-6 using UCUM: https://ucum.nlm.nih.gov/example-UCUM-Codes-v1.4.pdf	The actual data value occurs in the 5th field of the same OBX segment and is numeric. Concept Code: 11289-6
Triage Note	OBX	Triage notes for the patient visit; Triage Notes should be sent as free text.	The actual data value occurs in the 5th field of the same OBX segment and is numeric. Concept Code: 54094-8
Pregnancy status - Reported	OBX	Pregnancy status as reported by the patient at visit; Pregnancy status should be sent as "Yes", "No", or "Unknown"	The actual data value occurs in the 5th field of the same OBX segment and is numeric. Concept Code: 11449-6
Travel History - Reported	OBX	Recent Travel status of the patient.	The actual data value occurs in the 5th field of the same OBX segment and is numeric. We ask that OBX5-1 be set as boolean (yes/no), with location of travel denoted in OBX5-2, when applicable. Concept Code: 10182-4 Ex: OBX|1|TX|10182-4^History of travel Narrative^LN||Yes^Nigeria||||||F|||20110217 Ex: OBX|1|TX|10182-4^History of travel Narrative^LN||No||||||F|||20110217
Smoking Status	OBX	Reported smoking status of the patient.	OBX Segment with OBX-3 Observation Identifier 72166-2 Tobacco Smoking Status LOINC and OBX-2 Value Type of CWE. The observation value in OBX-5 uses the value set defined for meaningful use. Example OBX Segment: OBX|1|CWE|72166-2^TOBACCO SMOKING STATUS^LN||428071000124103

			^Current Heavy tobacco smoker ^SCT||||||F|||20110217
Facility Visit Type	OBX	Type of facility that the patient visited for treatment.	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3401
Treating Facility Location	OBX	Physical address of the treating facility.	OBX|1|XAD|SS002^TREATING FACILITY LOCATION^PHINQUESTION||1234 Anywhere Street^^Doraville^13^30341^USA^C^^13089||||||F|||201102091114
Occupation	OBX	Occupation of the patient	OBX|5|TX|SS005^OCCUPATION^PHINQUESTION|6|Staff||||||F

Relevant notes on how our system works:

- Messages are grouped into a visit based on matching the values in EVN-7.1, PID-3, and the month/day in PV-1.44.
- A visit will be flagged as "admitted" from the ED in our system if a message is received with a value of "I" in PV-1.2 or "09" in PV-1.36.
- For Hospitals – We only accept messages on patients whose encounter originated in the Emergency Department. We can receive update messages on those patients once admitted. We cannot receive messages on patients who are direct admits and did not go through the ED.
- Please be sure to suppress fields containing patient identifiable information (such as patient name, next of kin, PID-11.1 and PID-11.2, SSN, etc.)