

170.315(b)(10) Electronic Health Information Export

Overview

The purpose of this document is to describe a potential export of Electronic Health Information (EHI) from a reportable result of IHIE's Notifiable Condition Detector (NCD) as part of the 170.315(b)(10) Electronic Health Information Export criterion.

IHIE's NCD product has a single consumer (the Indiana Department of Health) that consumes an outbound batch of daily HL7 files transmitted via sftp. These files contain enhanced Electronic Lab Results (ELR) and patient demographic data from many hospitals and institutions that provide their ELR data to IHIE's interface. These files are received by the department of health to load into a CDC-based NBS (National Electronic Disease Surveillance System Base System) tool for a team of epidemiologists and data analysts to review for public health purposes. The export of this data (for the purpose of this criteria) would be a .txt file containing many HL7 data elements from what is considered a reportable result that ends up in these daily outbound HL7 files.

Below is the data dictionary that details the demographic data included in a typical reportable result output for the NCD tool.

NCD Reportable Result Data Format

Below is the data dictionary that details the demographic data included in a typical reportable result output for the NCD tool.

Column	Type	Description
id	BIGINT(20)	The database identifier of the reportable result.
institutionid	BIGINT(20)	The ID of the institution. This is a foreign key to the ncd_institution table.
institutiontype	VARCHAR(2)	A 2 letter indication of the institution type.
patientinstitutionmedicalrecordid	TEXT	The medical record ID used by the institution.
globalpatientid	TEXT	A global patient identifier.
patientssn	TEXT	The patient's social security number.
patientname	TEXT	The name of the patient.
patientbirth	DATE	The patient's birth date.
patientrace	VARCHAR(16)	The patient's race.
patientphone	TEXT	The patient's phone number.
patientstreet1	TEXT	The patient's street address.
patientstreet2	TEXT	A continuation of the patient's street address.
patientcity	TEXT	The city in which the patient resides.

Column	Type	Description
patientcounty	TEXT	The county in which the patient resides.
patientstate	TEXT	The state or other country sub-region in which the patient resides.
patientzip	TEXT	The zipcode in which the patient resides.
patientcountry	TEXT	The country in which the patient resides.
providername	TEXT	The medical care provider's name.
providernamematched	TEXT	The matched name of the medical care provider.
providerssn	TIMESTAMP	The social security number of the medical care provider.
providerbirth	TEXT	The birth date of the medical care provider.
providerpractice	TEXT	The name of the practice of the medical care provider.
providerstreet	TEXT	The street address of the medical care provider's practice.
providercity	TEXT	The city where the medical care provider's practice is located.
providerstreet	TEXT	The state or other country sub-region where the medical care provider's practice is located.
providerzip	TEXT	The zipcode of the medical care provider's practice.
providercounty	TEXT	The county where the medical care provider's practice is located.
providerphone	TEXT	The phone number of the medical care provider's practice.
providerlocalid	TEXT	The provider's local identifier.
providerdeanumber	TEXT	The provider's DEA identifier.
providerlicense	TEXT	The medical care provider's medical license number.
labname	TEXT	The lab name.
labid	TEXT	The identifier of the lab.
labphone	TEXT	The phone number of the lab.
labstreet1	TEXT	The street address of the lab.
labstreet2	TEXT	A continuation of the street address of the lab.
labcity	TEXT	The city in which the lab is located.
labstate	TEXT	The state or other country sub-region in which the lab is located.
labzip	TEXT	The zipcode of the lab.

Column	Type	Description
testid	TEXT	The test identifier (OBR-4.1)
testname	TEXT	The test name (OBR-4.2).
testcodesys	TEXT	The test code system (OBR-4.3).
testplacerordernum	TEXT	The order number used by the institution that placed the lab order.
testfillerordernum	TEXT	The order number used by the institution that filled the lab order.
testdate	TIMESTAMP	The test date.
testparentplacer	TEXT	The parent order number of the institution that placed the lab order.
testparentfiller	TEXT	The parent order number of the institution that filled the lab order.
testspecimentext	TEXT	The site from which the specimen was collected.
testdatatype	VARCHAR(3)	The data type of the test result.
testnormalrange	TEXT	The normal range listed in the test result, if any.
testabnormalflag	VARCHAR(2)	The abnormal flag listed in the test result, if any.
testcomment	LONGTEXT	Any comments associated with the test result.
testrcvddatetime	TIMESTAMP	The date the message was received locally.
testmpqseqnumber	TEXT	The MPQ Sequence Number which locally identifies the message.
testresultid	TEXT	The identifier in the test result (OBX-3.1).
testresultname	TEXT	The name of the test result (OBX-3.2).
testresultcodesys	TEXT	The code system of the test result (OBX-3.3).
testresultsubid	TEXT	The sub-identifier of the test result (OBX-4).
testresultcode	TEXT	The code of the test result (OBX-5.1).
testresultvalue	LONGTEXT	The value recorded in the test result (OBX-5).
testresultunits	TEXT	The units recorded in the test result (OBX-6).
testpreviousdate	TIMESTAMP	The last date this test was recorded. Note this information is rarely available.
conditionname	TEXT	The condition name that was determined to be present by the NCD.
obraltcode	TEXT	The alternate test identifier (OBR-4.4).
obraltcodetext	TEXT	The alternate test name (OBR-4.5).
obraltcodesys	TEXT	The alternate test code system (OBR-4.6).
obxaltcode	TEXT	The alternate test result identifier (OBX-3.4).

Column	Type	Description
obxaltcodetext	TEXT	The alternate test result name (OBX-3.5).
obxaltcodesys	TEXT	The alternate test result code system (OBX-3.6).
applicationfacilityid	BIGINT(20)	The ID of the application and facility that sent the message. This is a foreign key into the ncd_message_source table.
loinccodeid	BIGINT(20)	The ID of the LOINC code contained in the test result. This is a foreign key into the ncd_code table.
previousreportableresultid	BIGINT(20)	The ID of any related reportable results that were previously recorded. This is a foreign key to another result in this table.
rawhl7id	TEXT	The ID of the message. This is a foreign key into the ncd_raw_message table..
providernamesource	TEXT	The message location from which the provider name was taken.
provideraddresssource	TEXT	The message location from which the provider address was taken.
providerlocalidsource	TEXT	The message location from which the provdier local ID was taken.
testdatesource	TEXT	The message location from which the test date was taken.
testplacerordernumsource	TEXT	The message location from which the test placer order number was taken..
testfillerordernumsource	TEXT	The message location from which the test filler order number was taken.
facilityid	TEXT	The ID of the facility.
patientsex	CHAR(1)	The sex of the patient.
testresultstatus	CHAR(1)	The test result status as listed in the message (OBX-11).
resultseq	BIGINT(20)	An NCD-generated identifier for a reportable result.
obrSetId	INT(11)	The set ID of the OBR which was associated with the test result, if any (OBR-2).
obxStartSetId	INT(11)	The set ID of the first OBX from which the test result was taken (OBX-2).
obxEndSetId	INT(11)	The set ID of the last OBX from which the test result was taken (OBX-2).

Column	Type	Description
reviewStatusTypeid	BIGINT(20)	The ID of the manual review status. This is a foreign key into the ncd_manual_review_status_type
sendingApplication	TEXT	The application that sent the message which contained the test result (MSH-3).
sendingFacility	TEXT	The facility that sent the message which contained the test result (MSH-4).
sendingLocation	TEXT	The location that sent the message which contained the test result.
countyid	BIGINT(20)	The ID of the county in which the patient resides or was provided medical care. This is a foreign key into the ncd_county table.
jurisdictionid	BIGINT(20)	The ID of the health jurisdiction in which the patient resides or was provided medical care. This is a foreign key into the ncd_jurisdiction table.
decidedResultId	BIGINT(20)	The ID of the decided result that generated this reportable result, if any. This is a foreign key into the ncd_decided_result table.
indicatingCriticId	BIGINT(20)	The critic which made the positive determination for the test result. This is a foreign key into the ncd_critic_def table.
releaseDate	TIMESTAMP	The date and time this reportable result was released from manual review. If the result was never under review, this is the same as the date and time the reportable result was found.
encounterId	BIGINT(20)	The ID of the encounter created for this reportable result. This is a foreign key into the encounter table.
sentInError	TINYINT(1)	Whether the reportable result was sent in error or not. A value of 0 indicates the result was not sent in error, while a value of 1 indicates that the result was sent in error.
criticDisplay	TEXT	The display text that indicates which critic made the report determination.
codeDisplay	TEXT	The display text for the code used in the result segment(s) which lead to the positive determination.