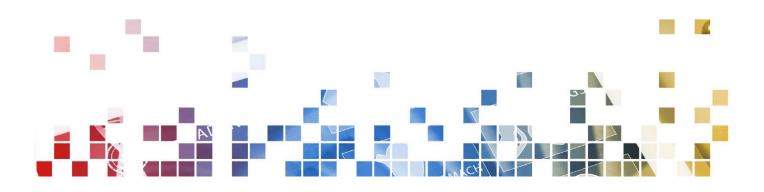


The Office of the National Coordinator for Health Information Technology



The USCDI is a standardized set of health data classes and constituent data elements for nationwide, interoperable health information exchange.

A USCDI "Data Class" is an aggregation of various Data Elements by a common theme or use case.

A USCDI "Data Element" is the most granular level at which a piece of data is represented in the USCDI for exchange.

United States Core Data for Interoperability





Version History Version # **Description of change Version Date** First Publication February 2020 1 1 (July 2020 Corrections to Applicable Standards July 2020 Errata) • Substance (Medication) - Removed UCUM • Patient's Goals, Health Concerns, Assessment and Plan of Treatment - Removed LOINC, SNOMED CT • Laboratory Tests, Values/Results - Removed SNOMED CT and UCUM

• Medications - Removed UCUM





USCDI v1 Summary of Data Classes and Data Elements

Allergies and Intolerances

- Substance (Medication)
- Substance (Drug Class)
- Reaction

Assessment and Plan of Treatment

• Assessment and Plan of Treatment

Care Team Members

Care Team Members

Clinical Notes

- Consultation Note
- Discharge Summary Note
- History & Physical
- Imaging Narrative
- Laboratory Report
 Narrative
- Pathology Report Narrative
- Procedure Note
- Progress Note

Goals

Patient Goals

Health Concerns

Health Concerns

Immunizations

Immunizations

Laboratory

- Tests
- Values/Results

Medications

Medications

Patient Demographics

- First Name
- Last Name
- Previous Name
- Middle Name (including Middle Initial)
- Suffix
- Birth Sex
- Date of Birth
- Race
- Ethnicity
- Preferred Language
- Current Address
- Previous Address
- Phone Number
- Phone Number Type
- Email Address

Problems

Problems

Procedures

Procedures

Provenance

- Author Time Stamp
- Author Organization

Smoking Status

Smoking Status

Unique Device Identifier(s) for a Patient's Implantable Device(s)

 Unique Device Identifier(s) for a Patient's Implantable Device(s)

Vital Signs

- Diastolic Blood Pressure
- Systolic Blood Pressure
- Body Height
- Body Weight
- Heart Rate
- Respiratory Rate
- Body Temperature
- Pulse Oximetry
- Inhaled Oxygen Concentration
- BMI Percentile (2 20 Years)
- Weight-for-length Percentile (Birth - 36 Months)
- Head Occipital-frontal Circumference Percentile (Birth - 36 Months)





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Allergies and Intolerances

Represents harmful or undesirable physiological responses associated with exposure to a substance.

DATA ELEMENT	APPLICABLE STANDARD(S)
Substance (Medication)	• RxNorm, January 6, 2020 Full Release Update
Substance (Drug Class)	 SNOMED International, Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT[®]) U.S. Edition, September 2019 Release
Reaction	 SNOMED International, Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT[®]) U.S. Edition, September 2019 Release

DATA CLASS

Assessment and Plan of Treatment

Represents a health professional's conclusions and working assumptions that will guide treatment of the patient.

DATA ELEMENT	APPLICABLE STANDARD(S)
Assessment and Plan of Treatment	







Care Team Member(s)

The specific person(s) who participate or are expected to participate in the care team.

DATA ELEMENT	APPLICABLE STANDARD(S)
Care Team Member(s)	





Clinical Notes

Represents narrative patient data relevant to the respective note types.

DATA ELEMENT	APPLICABLE STANDARD(S)	
	Logical Observation Identifiers Names and Codes (LOINC [®]) 2.67	
Consultation Note Contains the response to request from a clinician for an opinion or advice from another clinician.	 Consult Note (LOINC[®] code 11488-4) 	
Discharge Summary Note A synopsis of a patient's admission and course in a hospital or post-acute care setting.	 Discharge Summary (LOINC[®] code 18842-5) 	
History & Physical Documents the current and past conditions and observations of the patient.	 History and Physical Note (LOINC[®] code 34117-2) 	
Imaging Narrative Contains a consulting specialist's interpretation of image data.	 Diagnostic Imaging Study (LOINC[®] code 18748-4) 	
Laboratory Report Narrative		
Contains a consulting specialist's interpretation of the laboratory report.		
Pathology Report Narrative		
Contains a consulting specialist's interpretation of the pathology report.		
Procedure Note	Procedure Note (LOINC [®]	
Encompasses non-operative procedures including interventional cardiology, gastrointestinal endoscopy, osteopathic manipulation, and other specialty's procedures.	code 28570-0)	
Progress Note	• Progress Note (LOINC [®] c	
Represents a patient's interval status during a hospitalization, outpatient visit, treatment with a LTPAC provider, or other healthcare encounter.	ode 11506-3)	







Goals

An expressed desired health state to be achieved by a subject of care (or family/group) over a period of time or at a specific point of time.

DATA ELEMENT	APPLICABLE STANDARD(S)
Patient's Goals	

DATA CLASS

Health Concerns

Health related matter that is of interest, importance, or worry to someone who may be the patient, patient's family or patient's health care provider.

DATA ELEMENT	APPLICABLE STANDARD(S)
Health Concerns	





Immunizations

Record of an administration of a vaccination or a record of a vaccination as reported by a patient, a clinician, or another party.

DATA ELEMENT	APPLICABLE STANDARD(S)
Immunizations	 CDC IIS: Current HL7 Standard Code Set, CVX Vaccines Administered, updates through January 31, 2020
	 CDC National Drug Code (NDC) Directory – Vaccine NDC Linker Table, updates through January 31, 2020

DATA CLASS

Laboratory

DATA ELEMENT	APPLICABLE STANDARD(S)
Tests Examinations of specimens derived from humans to provide information for the diagnosis, prevention, treatment of disease, or impairment of, or assessment of health.	 Logical Observation Identifiers Names and Codes (LOINC[®]) Database version 2.67
Values/Results Outcome of the examination of a tested specimen.	





Medications

DATA ELEMENT	APPLICABLE STANDARD(S)
Medications	 RxNorm, January 6, 2020 Full Release Update

DATA CLASS

Patient Demographics

DATA ELEMENT	APPLICABLE STANDARD(S)
First Name	
Last Name	
Previous Name	
Middle Name	
(including middle initial)	
Suffix	
Birth Sex	 Birth sex must be coded in accordance with HL7 Version 3 (V3) Standard, Value Sets for AdministrativeGender and NullFlavor (<u>https://www.healthit.gov/sites/default/files/170299</u> <u>f 29 hl7 v3 agender and nullflavor.pdf</u>) attributed as follows: Male. M Female. F Unknown. nullFlavor UNK
Date of Birth	
Race	 The Office of Management and Budget Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity,



DATA ELEMENT	APPLICABLE STANDARD(S)	
	Statistical Policy Directive No. 15, as revised, October 30, 1997 (https://obamawhitehouse.archives.gov/omb/fedreg_1997standards)	
	 CDC Race and Ethnicity Code Set Version 1.0 (March 2000) (https://www.cdc.gov/phin/resources/vocabulary/index.html) 	
Ethnicity	 The Office of Management and Budget Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity, Statistical Policy Directive No. 15, as revised, October 30, 1997 (<u>https://obamawhitehouse.archives.gov/omb/fedreg_1997standards</u>) 	
	 CDC Race and Ethnicity Code Set Version 1.0 (March 2000) (<u>https://www.cdc.gov/phin/resources/vocabulary/index.html</u>) 	
Preferred Language	Request for Comment (RFC) 5646, "Tags for Identifying Languages", September 2009 (<u>http://www.rfc-editor.org/info/rfc5646</u>) See <u>https://tools.ietf.org/html/bcp47</u>	
Current Address		
Previous Address		
Phone Number	ITU–T E.123 (02/2001) International Telecommunication Union E.123: Notation for national and international telephone numbers, e-mail addresses and web addresses	
	ITU–T E.164 International Telecommunication Union E.164: The international public telecommunication numbering plan	
Phone Number Type		
Email Address		



Problems

Information about a condition, diagnosis, or other event, situation, issue, or clinical concept that is documented.

DATA ELEMENT	APPLICABLE STANDARD(S)
Problems	SNOMED International, Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®) U.S. Edition, September 2019 Release

DATA CLASS

Procedures

An activity performed for or on a patient as part of the provision of care.

DATA ELEMENT	APPLICABLE STANDARD(S)	
Procedures	 Health Care Financing Administration Common Procedure Coding System (HCPCS), as maintained and distributed by HHS. 	
	 Current Procedural Terminology, Fourth Edition (CPT-4), as maintained and distributed by the American Medical Association, for physician services and other health care services. 	
	 SNOMED International, Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®) U.S. Edition, September 2019 Release 	
	Optional:	
	 International Classification of Diseases ICD-10-PCS 2020 	
	 Optional for technology which records dental procedures:Code on Dental Procedures and Nomenclature (CDT), maintained and distributed by the American Dental Association, for dental services. 	





USCDI

Provenance

The metadata, or extra information about data, regarding who created the data and when it was created.

DATA ELEMENT	APPLICABLE STANDARD(S)
Author Time Stamp	
Author Organization	

DATA CLASS

Smoking Status

Representing a patient's smoking behavior.

DATA ELEMENT	APPLICABLE STANDARD(S)
Smoking Status	SNOMED International, Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®) U.S. Edition, September 2019 Release

DATA CLASS

Unique Device Identifier(s) for a Patient's Implantable Device(s)

A unique numeric or alphanumeric code that consists of a device identifier and a production identifier.

DATA ELEMENT	APPLICABLE STANDARD(S)
Unique Device	UDI identifier as described by applicable FDA regulation.
Identifier(s) for a patient's	(found at <u>https://www.fda.gov/MedicalDevices/Device</u>
implantable device(s)	<u>RegulationandGuidance/UniqueDeviceIdentification/</u>)





Vital Signs

Physiologic measurements of a patient that indicate the status of the body's life sustaining functions.

DATA ELEMENT	APPLICABLE STANDARD(S)
Diastolic Blood Pressure	
Systolic Blood Pressure	
Body Height	
Body Weight	
Heart Rate	
Respiratory Rate	 Logical Observation Identifiers Names and Codes (LOINC[®]) Database version 2.67
Body Temperature	• The Unified Code of Units for Measure, Revision 2.1
Pulse Oximetry	
Inhaled Oxygen Concentration	
BMI Percentile (2 - 20 years)	
Weight-for-length Percentile (Birth - 36 Months)	
Head Occipital-frontal Circumference Percentile (Birth - 36 Months)	



