

# United States Core Data for Interoperability

Version 5 | March 2025 Errata

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**v5**

# 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 Data Elements by a common theme or use case.

A USCDI **Data Element** is a piece of data defined in USCDI for access, exchange, or use of electronic health information.



## Version History

Version #	Description of change	Version Date
Version 5	Publication	July 2024
5 (March 2025 Errata)	Consistent with Executive Order 14168 the Sex, Pronouns, Sexual Orientation, Gender Identity, Name to Use, and Sex Parameter for Clinical Use data elements have been removed or updated in the Patient Demographics/Information and Observations Data Classes.	March 2025



## USCDI v5 Summary of Data Classes and Data Elements

### Allergies and Intolerances

- Medication Allergy Intolerance
- Drug Class Allergy Intolerance
- Non-Medication Allergy Intolerance
- Reaction

### Care Team Members

- Care Team Member Name
- Care Team Member Identifier
- Care Team Member Role
- Care Team Member Location
- Care Team Member Telecom

### Clinical Notes

- Consultation Note
- Discharge Summary Note
- Emergency Department Note
- History & Physical
- Operative Note
- Procedure Note
- Progress Note

### Clinical Tests

- Clinical Test
- Clinical Test Result/Report

### Diagnostic Imaging

- Diagnostic Imaging Test
- Diagnostic Imaging Report

### Encounter Information

- Encounter Type
- Encounter Identifier
- Encounter Diagnosis
- Encounter Time
- Encounter Location
- Encounter Disposition

### Facility Information

- Facility Identifier
- Facility Type
- Facility Name

### Goals and Preferences

- Patient Goals
- SDOH Goals
- Treatment Intervention Preference
- Care Experience Preference

### Health Insurance Information

- Coverage Status
- Coverage Type
- Relationship to Subscriber
- Member Identifier
- Subscriber Identifier
- Group Identifier
- Payer Identifier

### Health Status Assessments

- Health Concerns
- Functional Status
- Disability Status
- Mental/Cognitive Status
- Pregnancy Status
- Alcohol Use
- Substance Use
- Physical Activity
- SDOH Assessment
- Smoking Status

### Immunizations

- Immunizations
- Lot Number

### Laboratory

- Tests
- Values/Results
- Specimen Type
- Result Status
- Result Unit of Measure
- Result Reference Range
- Result Interpretation
- Specimen Source Site
- Specimen Identifier
- Specimen Condition Acceptability

### Medical Devices

- Unique Device Identifier - Implantable

### Medications

- Medications
- Dose
- Dose Unit of Measure
- Route of Administration
- Indication
- Fill Status
- Medication Instructions
- Medication Adherence

### Observations

- Advance Directive Observation

### Orders

- Medication Order
- Laboratory Order
- Diagnostic Imaging Order
- Clinical Test Order
- Procedure Order

### Patient Demographics/Information

- First Name
- Last Name
- Middle Name  
(Including middle initial)
- Name Suffix
- Previous Name

### Patient Demographics/Information (cont.)

- Date of Birth
- Date of Death
- Race
- Ethnicity
- Tribal Affiliation
- Sex
- Preferred Language
- Interpreter Needed
- Current Address
- Previous Address
- Phone Number
- Phone Number Type
- Email Address
- Related Person's Name
- Relationship Type
- Occupation
- Occupation Industry

### Patient Summary and Plan

- Assessment and Plan of Treatment

### Problems

- Problems
- SDOH Problems/Health Concerns
- Date of Diagnosis
- Date of Resolution

### Procedures

- Procedures
- Performance Time
- SDOH Interventions
- Reason for Referral

### Provenance

- Author
- Author Role
- Author Time Stamp
- Author Organization

### Vital Signs

- Systolic Blood Pressure
- Diastolic Blood Pressure
- Average Blood Pressure
- Heart Rate
- Respiratory Rate
- Body Temperature
- Body Height
- Body Weight
- Pulse Oximetry
- Inhaled Oxygen Concentration
- BMI Percentile (2 - 20 years)
- Weight-for-length Percentile  
(Birth - 24 Months)
- Head Occipital-frontal  
Circumference Percentile  
(Birth- 36 Months)



## DATA CLASS

### ALLERGIES AND INTOLERANCES

Harmful or undesired physiological responses associated with exposure to a substance.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Medication Allergy Intolerance</b> Pharmacologic agent believed to cause a harmful or undesired physiologic response following exposure.	<ul style="list-style-type: none"> <li>RxNorm® Full Monthly Release, July 1, 2024</li> </ul>
<b>Drug Class Allergy Intolerance</b> Pharmacologic category for an agent believed to cause a harmful or undesired physiologic response following exposure.	<ul style="list-style-type: none"> <li>SNOMED Clinical Terms® (SNOMED CT®) U.S. Edition, March 2024 Release</li> </ul>
<b>Non-Medication Allergy Intolerance</b> Non-pharmacologic agent believed to cause a harmful or undesired physiologic response following exposure.  Examples include but are not limited to latex, eggs, pollen, and peanuts.	<ul style="list-style-type: none"> <li>SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Reaction</b> Harmful or undesired physiologic response following exposure to a pharmacologic agent or class of agents.	<ul style="list-style-type: none"> <li>SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>



## DATA CLASS

### CARE TEAM MEMBERS

Information about a person who participates or is expected to participate in the care of a patient.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Care Team Member Name</b>	
<b>Care Team Member Identifier</b> Sequence of characters used to uniquely refer to a member of the care team.  Examples include but are not limited to National Provider Identifier (NPI) and National Council of State Boards of Nursing Identifier (NCSBN ID).	
<b>Care Team Member Role</b> Responsibility of an individual within the care team.  Examples include but are not limited to primary care physician and caregiver.	
<b>Care Team Member Location</b> Place where care is delivered by a care team member.  Examples include but are not limited to clinic address and location description.	



DATA ELEMENT	<b>APPLICABLE VOCABULARY STANDARD(S)</b>  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Care Team Member Telecom</b> Phone or email contact information for a care team member.	<ul style="list-style-type: none"> <li>• ITU-T E.123, Series E: Overall Network Operation, Telephone Service, Service Operation and Human Factors, International operation - General provisions concerning users: Notation for national and international telephone numbers, email addresses and web addresses (incorporated by reference in § 170.299); and</li> <li>• ITU-T E.164, Series E: Overall Network Operation, Telephone Service, Service Operation and Human Factors, International operation - Numbering plan of the international telephone service: The international public telecommunication numbering plan</li> </ul>



## DATA CLASS

### CLINICAL NOTES

Narrative patient data relevant to the context identified by note types.

Usage note: Clinical Notes data elements are content exchange standard agnostic. They should not be interpreted or associated with the structured document templates that may share the same name.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Consultation Note</b> Narrative summary of care provided in response to a request from a clinician for an opinion, advice, or service.  Examples include but are not limited to dermatology, dentistry, and acupuncture.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC®) version 2.77               <ul style="list-style-type: none"> <li>At minimum: Consult Note (LOINC code 11488-4)</li> </ul> </li> </ul>
<b>Discharge Summary Note</b> Narrative summary of a patient's admission and course in a hospital or post-acute care setting.  Usage note: Must contain admission and discharge dates and locations, discharge instructions, and reason(s) for hospitalization.  Examples include but are not limited to dermatology discharge summary, hematology discharge summary, and neurology discharge summary.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77               <ul style="list-style-type: none"> <li>At minimum: Discharge Summary (LOINC code 18842-5)</li> </ul> </li> </ul>
<b>Emergency Department Note</b> Narrative summary of care delivered in an emergency department.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77               <ul style="list-style-type: none"> <li>At minimum: Emergency Department Note (LOINC code 34111-5)</li> </ul> </li> </ul>





DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<p><b>History &amp; Physical</b> Narrative summary of current and past conditions and observations used to inform an episode of care.</p> <p>Examples include but are not limited to admission, surgery, and other procedure.</p>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p> <ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77 <ul style="list-style-type: none"> <li>At minimum: History and Physical Note (LOINC code 34117-2)</li> </ul> </li> </ul>
<p><b>Operative Note</b> Narrative summary of a surgical procedure.</p> <p>Usage note: May include procedures performed, operative and anesthesia times, findings observed, fluids administered, specimens obtained, and complications identified.</p>	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77 <ul style="list-style-type: none"> <li>At minimum: Surgical operation note (LOINC code 11504-8)</li> </ul> </li> </ul>
<p><b>Procedure Note</b> Narrative summary of non-operative procedure.</p> <p>Examples include but are not limited to interventional cardiology, gastrointestinal endoscopy, and osteopathic manipulation.</p>	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77 <ul style="list-style-type: none"> <li>At minimum: Procedure Note (LOINC code 28570-0)</li> </ul> </li> </ul>
<p><b>Progress Note</b> Narrative summary of a patient's interval status during an encounter.</p> <p>Examples include but are not limited to hospitalization, outpatient visit, and treatment with a post-acute care provider, or other healthcare encounter.</p>	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77 <ul style="list-style-type: none"> <li>At minimum: Progress Note (LOINC code 11506-3)</li> </ul> </li> </ul>



## DATA CLASS

### CLINICAL TESTS

Non-imaging and non-laboratory tests performed that result in structured or unstructured findings specific to the patient to facilitate the diagnosis and management of conditions.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Clinical Test</b> Non-imaging or non-laboratory test.  Examples include but are not limited to electrocardiogram (ECG), visual acuity exam, macular exam, and graded exercise testing (GXT).	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<b>Clinical Test Result/Report</b> Findings of clinical tests.	



## DATA CLASS

### DIAGNOSTIC IMAGING

Tests that result in visual images requiring interpretation by a credentialed professional.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<p><b>Diagnostic Imaging Test</b> Tests that generate visual images and require interpretation by qualified professionals.</p> <p>Examples include but are not limited to computed tomography-head, radiograph-chest, and ultrasound-pelvis.</p>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p> <ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<p><b>Diagnostic Imaging Report</b> Interpreted results of imaging tests.</p> <p>Usage Note: Includes structured and unstructured (narrative) components.</p>	



## DATA CLASS

### ENCOUNTER INFORMATION

Information related to interactions between healthcare providers and patients.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Encounter Type</b> Category of healthcare service.  Examples include but are not limited to office visit, telephone assessment, and home visit.	
<b>Encounter Identifier</b> Sequence of characters by which an encounter is known.	
<b>Encounter Diagnosis</b> Coded diagnoses associated with an episode of care.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) 2024</li> </ul>
<b>Encounter Time</b> Date/times related to an encounter.  Examples include but are not limited to scheduled appointment time, check in time, and start and stop times.	
<b>Encounter Location</b> Place where a patient's care is delivered.	<ul style="list-style-type: none"> <li>• National Healthcare Safety Network (NHSN) Healthcare Facility Patient Care Location (HSLOC) Version 2022</li> <li>• SNOMED Clinical Terms® (SNOMED CT®) U.S. Edition, March 2024 Release</li> </ul>
<b>Encounter Disposition</b> Place or setting where the patient went after a hospital stay or encounter.	



## DATA CLASS

### FACILITY INFORMATION

Physical place of available services or resources.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Facility Identifier</b> Sequence of characters representing a physical place of available services or resources.	
<b>Facility Type</b> Category of service or resource available in a location.  Examples include but are not limited to hospital, laboratory, pharmacy, ambulatory clinic, long-term and post-acute care facility, and food pantry.	
<b>Facility Name</b> Word or words by which a facility is known.	



## DATA CLASS

### GOALS AND PREFERENCES

Desired state to be achieved by a person or a person's elections to guide care.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Patient Goals</b> Desired outcomes of patient's care.	
<b>SDOH Goals</b> Desired future state for an identified Social Determinants of Health-related concern, condition, or diagnosis.  Examples include but are not limited to food security, transportation security, and ability to access healthcare.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Treatment Intervention Preference</b> Person's goals, preferences, and priorities for care and treatment in case that person is unable to make medical decisions because of a serious illness or injury.  Examples include but are not limited to thoughts on cardiopulmonary resuscitation, mental health treatment preferences, and thoughts on pain management.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<b>Care Experience Preference</b> Person's goals, preferences, and priorities for overall experiences during their care and treatment.  Examples include but are not limited to religious beliefs, dislikes and fears, and thoughts and feelings to be shared.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>



## DATA CLASS

### HEALTH INSURANCE INFORMATION

Data related to an individual's insurance coverage for healthcare.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Coverage Status</b> Presence or absence of healthcare insurance.	
<b>Coverage Type</b> Category of healthcare payers, insurance products, or benefits.  Examples include but are not limited to Medicaid, commercial, HMO, Medicare Part D, and dental.	
<b>Relationship to Subscriber</b> Relationship of a patient to the primary insured person.	
<b>Member Identifier</b> Sequence of characters used to uniquely refer to an individual with respect to their insurance.	
<b>Subscriber Identifier</b> Sequence of characters used to uniquely refer to the individual that selects insurance benefits.	
<b>Group Identifier</b> Sequence of characters used to uniquely refer to a specific health insurance plan.	
<b>Payer Identifier</b> Sequence of characters used to uniquely refer to an insurance payer.	



## DATA CLASS

### HEALTH STATUS ASSESSMENTS

Assessments of a health-related matter of interest, importance, or worry to a patient, patient's authorized representative, or patient's healthcare provider that could identify a need, problem, or condition.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Health Concerns</b> Health-related issue or worry.  Examples include but are not limited to weight gain and cancer risk.	
<b>Functional Status</b> Assessment of a person's ability to perform activities of daily living and activities across other situations and settings.  Examples include but are not limited to Functional Assessment Standardized Items (FASI) and Timed Up and Go (TUG).	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<b>Disability Status</b> Assessment of a patient's physical, cognitive, or psychiatric disabilities.  Examples include but are not limited to American Community Survey, Veterans RAND Health Survey, and Patient-Reported Outcomes Measurement Information System (PROMIS).	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<b>Mental/Cognitive Status</b> Assessment or screening for the presence of a mental or behavioral problem.  Examples include but are not limited to Confusion Assessment Method (CAM) and Patient Health Questionnaire (PHQ).	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>





DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<p><b>Pregnancy Status</b> State or condition of being pregnant or intent to become pregnant.</p> <p>Examples include but are not limited to pregnant, not pregnant, and unknown.</p>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p>
<p><b>Alcohol Use</b> Evaluation of a patient's consumption of alcohol.</p> <p>Examples include but are not limited to history of alcohol use, alcohol use disorder identification test, and alcohol intake assessment.</p>	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<p><b>Substance Use</b> Evaluation of a patient's reported use of drugs or other substances for non-medical purposes or in excess of a valid prescription.</p> <p>Examples include but are not limited to substance use disorder score, and substance use knowledge assessment.</p>	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>
<p><b>Physical Activity</b> Evaluation of a patient's current or usual exercise.</p> <p>Examples include but are not limited to frequency of muscle-strengthening physical activity, days per week with moderate to strenuous physical activity, and minutes per day of moderate to strenuous physical activity.</p>	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>SDOH Assessment</b> Screening questionnaire-based, structured evaluation for a Social Determinants of Health-related risk.  Examples include but are not limited to food, housing, and transportation security.	<ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Smoking Status</b> Assessment of a patient's smoking behaviors.  Examples include but are not limited to pack-years and current use.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>



## DATA CLASS

### IMMUNIZATIONS

Record of vaccine administration.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Immunizations</b> Vaccine product administered, planned, or reported.	Both standards are required: <ul style="list-style-type: none"> <li>CVX – Vaccines Administered, updates through June 12, 2024</li> <li>National Drug Code (NDC), updates through July 12, 2024</li> </ul>
<b>Lot Number</b> Sequence of characters representing a specific quantity of manufactured material within a batch of a vaccine product.	

## DATA CLASS

### LABORATORY

Analysis of clinical specimens to obtain information about the health of a patient.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Tests</b> Analysis of specimens derived from humans which provide information for the diagnosis, prevention, treatment of disease, or assessment of health.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> </ul>



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<b>Values/Results</b> Documented findings of a tested specimen including structured and unstructured components.	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty. <ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Specimen Type</b> Substance being sampled or tested.  Examples include but are not limited to nasopharyngeal swab, whole blood, serum, urine, and wound swab.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Result Status</b> State or condition of a laboratory test.	
<b>Result Unit of Measure</b> Unit of measurement to report quantitative values.	<ul style="list-style-type: none"> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Result Reference Range</b> Upper and lower limit of quantitative test values expected for a designated population of individuals.  Usage note: Reference range values may differ by patient characteristics, laboratory test manufacturer, and laboratory test performer.	<ul style="list-style-type: none"> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Result Interpretation</b> Categorical assessment of a laboratory value, often in relation to a test's reference range.  Examples include but are not limited to high, low, critical high, and normal.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• Health Level 7® (HL7) Code System ObservationInterpretation</li> </ul>



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Specimen Source Site</b> Body location from where a specimen was obtained.  Examples include but are not limited to right internal jugular, left arm, and right eye.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Specimen Identifier</b> Sequence of characters assigned by a laboratory for an individual specimen.  Example includes but is not limited to accession number.	
<b>Specimen Condition Acceptability</b> Information regarding a specimen, including the container, that does not meet a laboratory's criteria for acceptability.  Usage note: This may include information about the contents of the container, the container, and the label.  Examples include but are not limited to hemolyzed, clotted, container leaking, and missing patient name.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• HL7 Code System SpecimenCondition</li> </ul>



## DATA CLASS

### MEDICAL DEVICES

An instrument, machine, appliance, implant, software, or other article intended to be used for a medical purpose.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Unique Device Identifier - Implantable</b> Numeric or alphanumeric code that uniquely identifies an implantable device.  Usage note: Contains a device identifier (DI) and one or more production identifiers (PI).	<ul style="list-style-type: none"> <li>FDA Unique Device Identification (UDI) System</li> </ul>

## DATA CLASS

### MEDICATIONS

Pharmacologic agents used in the diagnosis, cure, mitigation, treatment, or prevention of disease.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Medications</b> Pharmacologic agent used in the diagnosis, cure, mitigation, treatment, or prevention of disease.	<ul style="list-style-type: none"> <li>RxNorm Full Monthly Release, July 1, 2024</li> </ul> Optional: <ul style="list-style-type: none"> <li>National Drug Code (NDC), July 16, 2024</li> </ul>
<b>Dose</b> Amount of a medication for each administration.	



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<p><b>Dose Unit of Measure</b> Units of measure of a medication.</p> <p>Examples include but are not limited to milligram (mg) and milliliter (mL).</p>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p> <ul style="list-style-type: none"> <li>The Unified Code for Units of Measure, Revision 2.1</li> </ul>
<p><b>Route of Administration</b> Physiological administration path of a therapeutic agent into or onto a patient.</p> <p>Examples include but are not limited to oral, topical, and intravenous.</p>	<ul style="list-style-type: none"> <li>SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>National Cancer Institute Thesaurus (NCIt) v24.04e, FDA Structured Product Labeling (SPL) Terminology</li> </ul>
<p><b>Indication</b> Sign, symptom, or medical condition that is the reason for giving or taking a medication.</p>	<ul style="list-style-type: none"> <li>SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) 2024</li> </ul>
<p><b>Fill Status</b> State of a medication with regards to dispensing or other activity.</p> <p>Examples include but are not limited to dispensed, partially dispensed, and not dispensed.</p>	



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Medication Instructions</b> Directions for administering or taking a medication.  Usage note: May include route, quantity, timing/frequency, and special instructions (PRN, sliding scale, taper).  Examples include but are not limited to prescription directions for taking a medication, and package instructions for over-the-counter medications.	
<b>Medication Adherence</b> Statement of whether a medication has been consumed according to instructions.  Examples include but are not limited to taking as directed, taking less than directed, and not taking.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>





## DATA CLASS

### OBSERVATIONS

Findings or other clinical data collected about a patient during care.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<p><b>Advance Directive Observation</b></p> <p>Information about a patient or provider authored document indicating its location, content, type, and verification status.</p> <p>Usage note: May include structured or unstructured data, whether a person has one or more advance directive documents, the type of advance directive, the location of the document, and whether it has been verified. Such documents may be used should a person be unable to communicate their wishes, preferences, or priorities to their provider.</p> <p>Examples include but are not limited to an indication that a living will is on file, a reference to the location of durable medical power of attorney, and the validating provider.</p>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p>



## DATA CLASS

### ORDERS

Provider-authored request for the delivery of patient care services.

Usage notes: Orders convey a provider's intent to have a service performed on or for a patient, or to give instructions on future care.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Medication Order</b> Provider-authored request for the dispensing of a therapeutic agent.	
<b>Laboratory Order</b> Provider-authored request for the performance of a laboratory test.	
<b>Diagnostic Imaging Order</b> Provider-authored request for the performance of a diagnostic imaging study.	
<b>Clinical Tests Order</b> Provider-authored request for the performance of a non-laboratory or non-imaging test.	
<b>Procedure Order</b> Provider-authored request for the performance of a diagnostic or therapeutic intervention.	



## DATA CLASS

### PATIENT DEMOGRAPHICS/INFORMATION

Data used to categorize individuals for identification, records matching, and other purposes.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>First Name</b>	
<b>Last Name</b>	
<b>Middle Name</b> (Including middle initial)	
<b>Name Suffix</b> Name component following family name that may be used to describe a person's position in a family.	
<b>Previous Name</b>	
<b>Date of Birth</b> Known or estimated year, month, and day of the patient's birth.	
<b>Date of Death</b> Known or estimated year, month, and day of the patient's death.	
<b>Race</b>	Both standards are required: <ul style="list-style-type: none"> <li>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</li> <li>CDC Race and Ethnicity Code Set Version 1.2 (July 2021)</li> </ul>



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<b>Ethnicity</b>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p> <p>Both standards are required:</p> <ul style="list-style-type: none"> <li>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</li> <li>CDC Race and Ethnicity Code Set Version 1.2 (July 2021)</li> </ul>
<b>Tribal Affiliation</b> Tribe or band with which an individual associates.	
<b>Sex</b> Documentation of a specific instance of sex.	<p>Both values must be supported:</p> <ul style="list-style-type: none"> <li>SNOMED CT U.S. Edition: 248152002 (Female)</li> <li>SNOMED CT U.S. Edition: 248153007 (Male)</li> </ul>
<b>Preferred Language</b>	<ul style="list-style-type: none"> <li>IETF (Internet Engineering Task Force) Request for Comment (RFC) 5646, "Tags for Identifying Languages", September 2009</li> </ul> <p>Adopted at 45 CFR 170.207(g)(2)</p>
<b>Interpreter Needed</b> Indication of whether a person needs language interpretation services.	<ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> </ul>
<b>Current Address</b> Place where a person is located or may be contacted.  Usage note: If the address pattern is not supported in the standard, implementations should align as closely as possible and avoid truncating any values.	<ul style="list-style-type: none"> <li>Project US@ Technical Specification for Patient Addresses, Final Version 1.0</li> </ul>



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<p><b>Previous Address</b> Prior place where a person may have been located or could have been contacted.</p> <p>Usage note: If the address pattern is not supported in the standard, implementations should align as closely as possible and avoid truncating any values.</p>	<p>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.</p> <ul style="list-style-type: none"> <li>Project US@ Technical Specification for Patient Addresses, Final Version 1.0</li> </ul>
<p><b>Phone Number</b> Numbers and symbols to contact an individual when using a phone.</p>	<p>Both standards are required:</p> <ul style="list-style-type: none"> <li>ITU-T E.123, Series E: Overall Network Operation, Telephone Service, Service Operation and Human Factors, International operation - General provisions concerning users: Notation for national and international telephone numbers, email addresses and web addresses, February 2001</li> <li>ITU-T E.164, Series E: Overall Network Operation, Telephone Service, Service Operation and Human Factors, International operation - Numbering plan of the international telephone service, The international public telecommunication numbering plan, November 2010</li> </ul> <p>Adopted at 45 CFR 170.207(q)(1)</p>
<p><b>Phone Number Type</b> Contact point when using a phone.</p> <p>Examples include but are not limited to home, work, and mobile.</p>	
<p><b>Email Address</b> Unique identifier of an individual's email account that is used to send and receive email messages.</p>	



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
<b>Related Person's Name</b> Name of a person with a legal or familial relationship to a patient.	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Relationship Type</b> Relationship of a person to a patient.  Examples include but are not limited to parent, next-of-kin, guardian, and custodian.	
<b>Occupation</b> Type of work of a person.  Examples include but are not limited to infantry, business analyst, and social worker.	<ul style="list-style-type: none"> <li>Occupational Data for Health, version 20201030</li> </ul>
<b>Occupation Industry</b> Type of business that compensates for work or assigns work to an unpaid worker or volunteer.  Examples include but are not limited to U.S. Army, cement manufacturing, and children and youth services.	<ul style="list-style-type: none"> <li>Occupational Data for Health, version 20201030</li> </ul>



## DATA CLASS

### PATIENT SUMMARY AND PLAN

Conclusions and working assumptions that will guide treatment of the patient, and recommendations for future treatment.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Assessment and Plan of Treatment</b> Health professional's conclusions and working assumptions that will guide treatment of the patient.	

## DATA CLASS

### PROBLEMS

Condition, diagnosis, or reason for seeking medical attention.

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Problems</b> Condition, diagnosis, or reason for seeking medical attention.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) 2024</li> </ul>
<b>SDOH Problems/Health Concerns</b> Social Determinants of Health-related concerns, conditions, or diagnoses.  Examples include but are not limited to homelessness and food insecurity.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) 2024</li> </ul>



DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Date of Diagnosis</b> Date of first determination by a qualified professional of the presence of a problem or condition affecting a patient.	
<b>Date of Resolution</b> Date of subsiding or termination of a symptom, problem, or condition.	





## DATA CLASS

### PROCEDURES

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

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Procedures</b> Activity performed for or on a patient as part of the provision of care.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• Current Procedural Terminology (CPT®) 2024, as maintained and distributed by the American Medical Association, for physician services and other healthcare services, and Healthcare Common Procedure Coding System (HCPCS), as maintained and distributed by HHS</li> <li>• Code on Dental Procedures and Nomenclature (CDT) 2024, maintained and distributed by the American Dental Association</li> </ul> Optional: <ul style="list-style-type: none"> <li>• 2024 International Classification of Diseases, Tenth Revision, Procedure Coding System (2024 ICD-10-PCS)</li> </ul>
<b>Performance Time</b> Time and/or date a procedure is performed.  Examples include but are not limited to vaccine or medication administration times, surgery start time, and time ultrasound performed.	



DATA ELEMENT	<b>APPLICABLE VOCABULARY STANDARD(S)</b>  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>SDOH Interventions</b> Actions or services to address an identified Social Determinants of Health-related concern, condition, or diagnosis.  Examples include but are not limited to education about food pantry program and referral to non-emergency medical transportation program.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• Current Procedural Terminology (CPT) 2024, as maintained and distributed by the American Medical Association, for physician services and other healthcare services.</li> <li>• Healthcare Common Procedure Coding System (HCPCS) Level II, as maintained and distributed by HHS.</li> </ul>
<b>Reason for Referral</b> Explanation or justification for a referral or consultation.	<ul style="list-style-type: none"> <li>• SNOMED Clinical Terms (SNOMED CT) U.S. Edition, March 2024 Release</li> <li>• International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) 2024</li> </ul>



## DATA CLASS

### PROVENANCE

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

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Author</b> Actor that created or revised the data.  Usage note: The actor may be a provider, a patient, a device, an outside medical record, or something else. The source of the information can be used to form assessments about its quality, reliability, trustworthiness, or can indicate where to go to determine the origins of the information.	
<b>Author Role</b> Category of actor that participated in the creation or revision of data.  Usage note: The source of the information can be used to form assessments about its quality, reliability, trustworthiness, or can indicate where to go to determine the origins of the information.  Examples include but are not limited to provider, patient, family member, and device.	
<b>Author Time Stamp</b> Date and time of author action.	
<b>Author Organization</b> Organization associated with author.	



## DATA CLASS

### VITAL SIGNS

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

DATA ELEMENT	APPLICABLE VOCABULARY STANDARD(S)
	Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Systolic Blood Pressure</b>	Both standards are required. <ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Diastolic Blood Pressure</b>	Both standards are required. <ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Average Blood Pressure</b> Arithmetic average of systolic and diastolic components of two or more blood pressure readings in a specified time period or according to a specified algorithm or protocol.  Examples include but are not limited to 3-day morning and evening home monitoring, clinical encounter repeat average, and 24-hour ambulatory measurement.	Both standards are required. <ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Heart Rate</b>	Both standards are required. <ul style="list-style-type: none"> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>The Unified Code of Units for Measure, Revision 2.1</li> </ul>



DATA ELEMENT	<b>APPLICABLE VOCABULARY STANDARD(S)</b>  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>Respiratory Rate</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Body Temperature</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Body Height</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Body Weight</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Pulse Oximetry</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Inhaled Oxygen Concentration</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>



DATA ELEMENT	<b>APPLICABLE VOCABULARY STANDARD(S)</b>  Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. Where an applicable vocabulary standard has not been identified, this field will remain empty.
<b>BMI Percentile (2 - 20 years)</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Weight-for-length Percentile (Birth - 24 Months)</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>
<b>Head Occipital-frontal Circumference Percentile (Birth - 36 Months)</b>	Both standards are required. <ul style="list-style-type: none"> <li>• Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>• The Unified Code of Units for Measure, Revision 2.1</li> </ul>



## Changes between USCDI v4 and USCDI v5

Change Type	Description of change
<b>Added Data Element</b>	<ul style="list-style-type: none"> <li>• Clinical Notes <ul style="list-style-type: none"> <li>• Emergency Department Note</li> <li>• Operative Note</li> </ul> </li> <li>• Immunizations <ul style="list-style-type: none"> <li>• Lot Number</li> </ul> </li> <li>• Medications <ul style="list-style-type: none"> <li>• Route of Administration</li> </ul> </li> <li>• Observations <ul style="list-style-type: none"> <li>• Advance Directive Observation</li> <li>• Sex Parameter for Clinical Use</li> </ul> </li> <li>• Orders <ul style="list-style-type: none"> <li>• Medication Order</li> <li>• Laboratory Order</li> <li>• Diagnostic Imaging Order</li> <li>• Clinical Test Order</li> <li>• Procedure Order</li> </ul> </li> <li>• Patient Demographics/Information <ul style="list-style-type: none"> <li>• Interpreter Needed</li> <li>• Pronouns</li> <li>• Name to Use</li> </ul> </li> <li>• Provenance <ul style="list-style-type: none"> <li>• Author</li> <li>• Author Role</li> </ul> </li> </ul>
<b>Added Data Class</b>	<ul style="list-style-type: none"> <li>• Observations</li> <li>• Orders</li> </ul>
<b>Added Applicable Standards</b>	<ul style="list-style-type: none"> <li>• Encounter Location <ul style="list-style-type: none"> <li>• Add National Healthcare Safety Network (NHSN) Healthcare Facility Patient Care Location (HSLOC)</li> </ul> </li> </ul>



Change Type	Description of change
<b>Corrected Applicable Standard Reference</b>	<ul style="list-style-type: none"> <li>Immunizations               <ul style="list-style-type: none"> <li>CVX, NDC</li> </ul> </li> <li>Procedures               <ul style="list-style-type: none"> <li>CDT</li> </ul> </li> </ul>
<b>Updated Applicable Standards Versions</b>	<ul style="list-style-type: none"> <li>SNOMED CT, U.S. Edition, March 2024 Release</li> <li>Logical Observation Identifiers Names and Codes (LOINC) version 2.77</li> <li>International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) 2024</li> <li>International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) 2024</li> <li>Current Procedural Terminology (CPT) 2024</li> <li>Healthcare Common Procedure Coding System (HCPCS) Level II 2024</li> <li>RxNorm Full Monthly Release, July 1, 2024</li> <li>CVX – Vaccines Administered, updates through June 12, 2024</li> <li>National Drug Code (NDC), updates through July 16, 2024</li> </ul>
<b>Changed Data Element Definition</b>	<ul style="list-style-type: none"> <li>Current Address</li> <li>Diagnostic Imaging Test</li> <li>Disability Status</li> <li>Discharge Summary Note</li> <li>Encounter Disposition</li> <li>Functional Status</li> <li>Mental/Cognitive Status</li> <li>Previous Address</li> <li>Procedure Note</li> <li>Result Unit of Measure</li> </ul>
<b>Changed Data Class Name</b>	<ul style="list-style-type: none"> <li>Care Team Members               <ul style="list-style-type: none"> <li>Removed parenthesis from Care Team Member(s)</li> </ul> </li> </ul>
<b>Changed Applicable Vocabulary Binding Text</b>	<ul style="list-style-type: none"> <li>Standards listed are required. If more than one is listed, at least one is required unless otherwise noted. <u>Where an applicable vocabulary standard has not been identified, this field will remain empty.</u></li> </ul>





## Changes between Draft USCDI v5 and final USCDI v5

Change Type	Description of change
<b>Removed Data Element</b>	<ul style="list-style-type: none"> <li>Laboratory <ul style="list-style-type: none"> <li>Test Kit Unique Device Identifier</li> </ul> </li> <li>Orders <ul style="list-style-type: none"> <li>Orders</li> </ul> </li> </ul>
<b>Added Data Element</b>	<ul style="list-style-type: none"> <li>Orders <ul style="list-style-type: none"> <li>Medication Order</li> <li>Laboratory Order</li> <li>Diagnostic Imaging Order</li> <li>Clinical Test Order</li> <li>Procedure Order</li> </ul> </li> </ul>
<b>Added Applicable Standards</b>	<ul style="list-style-type: none"> <li>Encounter Location <ul style="list-style-type: none"> <li>SNOMED Clinical Terms® (SNOMED CT®) U.S. Edition, March 2024 Release.</li> </ul> </li> <li>Route of Administration <ul style="list-style-type: none"> <li>National Cancer Institute Thesaurus (NCIt) v24.04e, FDA Structured Product Labeling (SPL) Terminology</li> </ul> </li> </ul>
<b>Changed Data Element Definition</b>	<ul style="list-style-type: none"> <li>Emergency Department Note</li> <li>Operative Note</li> <li>Progress Note</li> <li>Consultation Note</li> <li>History and Physical</li> <li>Discharge Summary</li> <li>Procedure Note</li> <li>Lot Number</li> <li>Author</li> <li>Author Role</li> </ul>
<b>Changed Data Class Definition</b>	<ul style="list-style-type: none"> <li>Clinical Notes <ul style="list-style-type: none"> <li>Added usage note</li> </ul> </li> </ul>
<b>Changed Data Element Name</b>	<ul style="list-style-type: none"> <li>Medication Allergy Intolerance</li> <li>Drug Class Allergy Intolerance</li> <li>Non-Medication Allergy Intolerance</li> </ul>
<b>Changes consistent with Executive Order 14168</b>	<ul style="list-style-type: none"> <li>Changed the definition and applicable vocabulary standard for Sex.</li> <li>Removed Pronouns, Sexual Orientation, Gender Identity, Name to Use, and Sex Parameter for Clinical Use from the Patient Demographics/Information and Observations data classes.</li> </ul>



## Changes between USCDI v5 and USCDI v5 Errata (March 2025)

Change Type	Description of change
Changed data element definition and applicable vocabulary standard	<ul style="list-style-type: none"><li>• Sex</li></ul>
Removed data elements	<ul style="list-style-type: none"><li>• Sex Parameter for Clinical Use</li><li>• Name to Use</li><li>• Pronouns</li><li>• Sexual Orientation</li><li>• Gender Identity</li></ul>