# Notes and Revision Updates

**Notes**

This is the final draft of the CKD Data Dictionary used for the Data Exchange v1.

**Revision Updates**

VITAL\_SIGN

* Defined value and measurement types for the following vital measurements: BLOOD PRESSURE, PULSE, RESPIRATIONS, BLOOD PRESSURE TEMPERATURE, HEIGHT, WEIGHT and BMI.

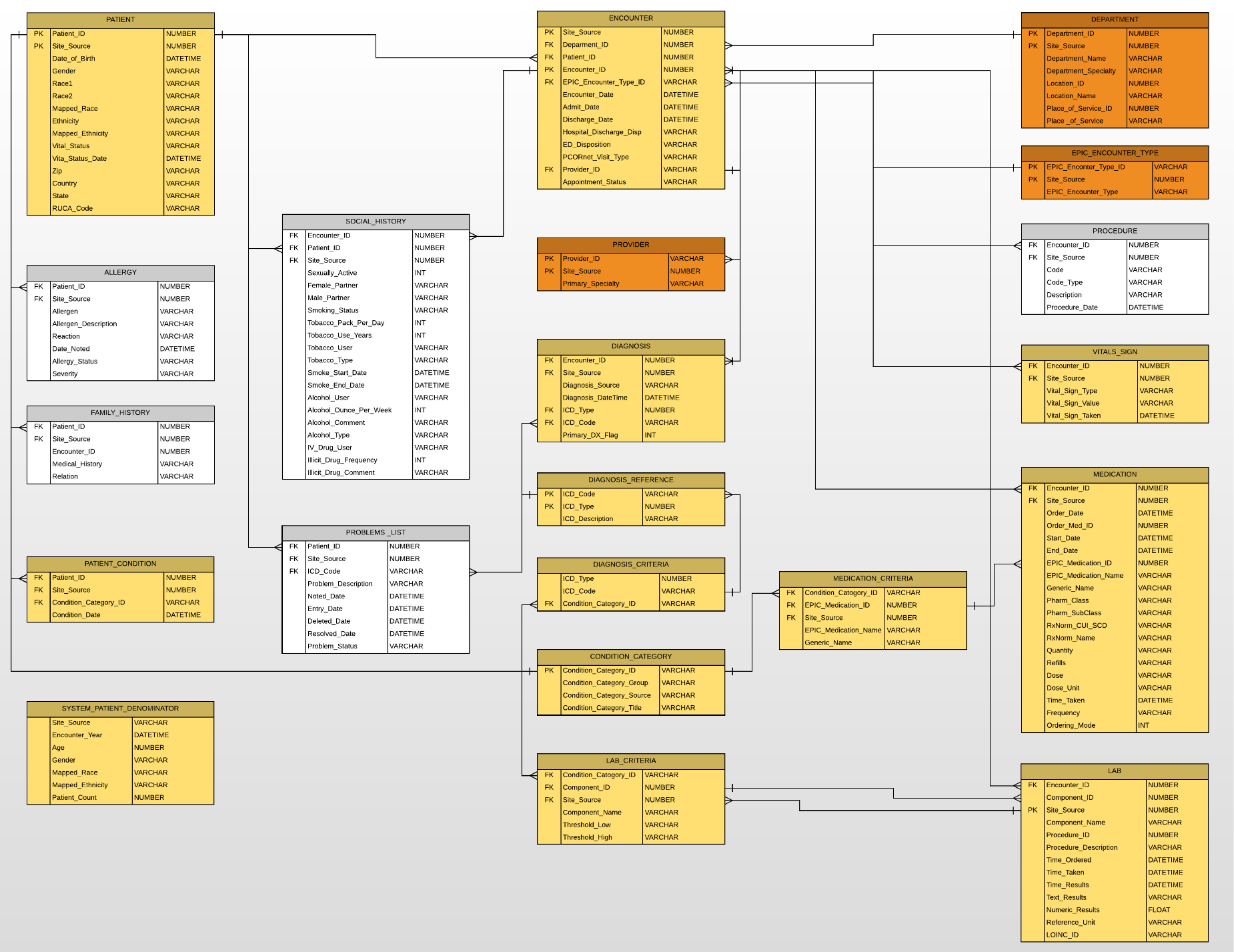
APPENDIX B. Ethnicity Mapping

* Created new APPENDIX B.

APPENDIX C. Patient Denominator Table

* Created new APPENDIX C.

# CKD Database Schema



**CKD Data Schema**. \* High Priority Tables Highlighted in Yellow

# **PATIENT**

**Definition**

This table contains one record for each patient in the CKD Database Registry. The data contained in each record consists of demographics information.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Nulls?** | **Data Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK | Patient\_ID | Database-generated patient identifier. This column will join other tables to link to PATIENT table. | NUMBER | \*,0 |  | NO |  | * The patient-mapping table is stored locally at each site. |
| PK | Site\_Source | The site from which the record value was derived. | NUMBER | 2 | 1, 2, 3, 4 |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
|  | Date\_of\_Birth | The date on which the person was born. | DATETIME | 7 |  |  |  | * Global date time format will be yyyy-mm-dd hh24:mi |
|  | Gender | Site-specific, EPIC-defined Gender value of the patient. | VARCHAR | 254 | Male, Female, Unknown, Other | NO |  |  |
|  | Race1 | Site-specific, EPIC-defined primary race value of the patient. | VARCHAR | 254 |  |  |  |  |
|  | Race2 | Site-specific, EPIC-defined secondary race value of the patient. | VARCHAR | 254 |  |  |  |  |
|  | Mapped\_Race | CKD Data Registry defined mapping of site-specific, EPIC values. | VARCHAR | 254 | White or Caucasian, Unknown, Other, Asian, Black or African American, Patient Refused, American Indian or Alaska Native, Multiple Race, Native Hawaiian or Other Pacific Islander |  |  | * See APPENDIX A for mapping |
|  | Ethnicity | Site-specific, EPIC-defined ethnicity value of the patient. | VARCHAR | 254 |  |  |  | * See APPENDIX B for mapping |
|  | Mapped\_Ethnicity | CKD Data Registry defined mapping of site-specific, EPIC values | VARCHAR | 254 | Hispanic or Latino, Not Hispanic or Latino, Unknown, Patient Refused |  |  |  |
|  | Vital\_Status | The patient's living status | VARCHAR | 254 | Alive, Deceased | YES | * Hospital Discharge Status * ED Discharge Status * Patient Status Flag | * The vital status values should be defined as: Alive, Deceased or NULL * UCLA will load Alive, Deceased, and NULL. * Providence will load Deceased and NULL. * Future work will analyze death registry data. |
|  | Vital\_Status\_Date | The date of the patient’s vital status observation, ***if***patient is deceased (otherwise null) | DATETIME | 7 |  |  |  | * UCLA also loads discharged date from the hospital if patient disposition is expired * Future work will analyze death registry data to populate this field. |
|  | Zip | The ZIP Code area in which the patient lives. | VARCHAR | 60 |  |  |  | * This column will be NULL for both sites until UCLA IRB approval |
|  | Country | The 3-letter country code corresponding to the country in which the patient lives. | VARCHAR | 66 | USA, CAN, GBR |  | EPIC COUNTRY\_C | * Providence is currently deriving Country values from their zip-codes.   + Only USA and CAN values will be available.   + Future work includes deriving Country values from the EPIC country value field. * UCLA is extracting from the EPIC state category field |
|  | State | The 2-letter state abbreviation corresponding to the state in which the patient lives. | VARCHAR | 254 | CA, WA, OR, HI |  | EPIC STATE\_C |  |
|  | RUCA\_Code | The Rural-Urban Commuting Area Code corresponding to the area in which the patient lives. | VARCHAR | 254 | 1.0, 1.1, 2.0, 4.2 |  |  |  |

# PATIENT\_CONDITION

**Definition**

The PATIENT\_CONDITION table contains a record for each date on which a patient met a medication, diagnosis, lab or vital sign inclusion criterion for one of the four condition-category groups in the CKD Database Registry.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Nulls?** | **Data Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Patient\_ID | Database-generated patient identifier. This table will link to the PATIENT table using this column. | NUMBER | (\*,0) |  |  |  |  |
| FK | Site\_Source | The site from which the record value was derived. | NUMBER | 2 | 1, 2, 3, 4 |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
| FK | Condition\_Category\_ID | Unique identifier of the condition category. This table will link to the CONDITION\_CATEGORY table using this column. | VARCHAR | 20 | CKD, ALB, GFR, PRO  DM, DMMed, A1C\_DM, BGF\_DM, BGR\_DM,  PDM, A1C\_PDM, BGF\_PDM, BGR\_PDM  HTN, HTNBP |  |  |  |
|  | Condition\_Date | The date on which the medication, diagnosis, lab or vital sign criteria was taken | VARCHAR | 20 |  |  |  | * Outpatient medication encounter (1 in the Ordering\_Mode Field in Medication Table) Condition\_Date value is pulled from the Order\_Date field in Medication table. * Inpatient medication encounter (2 in the Ordering\_Mode Field in Medication Table) Condition\_Date value is pulled from Time\_Taken field in Medication table. * Vital Sign encounter Condition\_Date value is pulled from the Vital\_Sign\_Taken field in Vital\_Sign table. * Diagnosis encounter Condition\_Date value is pulled from the Diagnosis\_DateTime field in the Diagnosis table. * Lab encounter Condition\_Date value is pulled from the Time\_Taken field in the Lab table. |

# ENCOUNTER

**Definition**

This table contains one record for each patient encounter in the CKD Database Registry.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Nulls?** | **Data Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK | Site\_Source | The site from which the record value was derived. | NUMBER | 2 | 1, 2, 3, 4 | NO |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
| FK | Department\_ID | The ID of the department for the encounter. If there are multiple departments for the encounter, this is the ID of the last department value in an encounter. | NUMBER | 18 |  | NO |  |  |
| FK | Patient\_ID | Database-generated patient identifier. This column will be used to link to the PATIENT table. | NUMBER | 38 |  | NO |  |  |
| FK | Encounter\_ID | Site generated encounter identifier. | NUMBER | 38 |  | NO |  |  |
| FK | EPIC\_Encounter\_Type\_ID | The raw EPIC encounter type category value for the encounter. This column will be used to link to the EPIC\_ENCOUNTER\_TYPE table. | VARCHAR | 66 |  | NO | - epic\_enc\_type\_c (VARCHAR) | * The following EPIC encounter types are excluded at UCLA: *History, Erroneous Encounter, Erroneous Telephone Encounter, Scanned Document, Transcribed Document, Other eSource Document, SMBP Historical Scanned Document, Scanned Document No Visit, Wait List.* * epic\_enc\_type\_c is stored as VARCHAR in EPIC database. |
|  | Encounter\_Date | The date of encounter | DATETIME | 7 |  |  |  |  |
|  | Admit\_Date | The hospital admission date for the encounter. | DATETIME | 7 |  |  |  |  |
|  | Discharge\_Date | The hospital discharge date for the encounter. | DATETIME | 7 |  |  |  |  |
|  | Hospital\_Discharge\_Disposition | The category value corresponding to the vital status at discharge for the patient contact. | VARCHAR | 254 |  |  |  |  |
|  | ED\_Disposition | The ED disposition of the patient. | VARCHAR | 254 |  |  |  |  |
|  | PCORNET\_Visit\_Type | Defined data mapping of EPIC Encounter Type values to PCORNET visit types. | VARCHAR | 2 |  |  |  |  |
|  | Provider\_ID | The unique ID for the visit provider associated with this encounter. This item may be NULL if there is no provider for this encounter. This column will be used to link to the VISIT\_PROVIDER table. | VARCHAR | 20 |  |  |  |  |
|  | Appointment\_Status | The category value associated with the appointment status of the encounter as of the most recent enterprise reporting extract. | VARCHAR | 254 |  |  | pat\_enc.appt\_status\_c table in EPIC. |  |

# EPIC\_ENCOUNTER\_TYPE

**Definition**

This is a reference table containing one record for each EPIC encounter type associated in the ENCOUNTER table.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Nulls?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK | EPIC\_Encounter\_Type\_ID | The unique ID of the raw EPIC encounter type category value for the encounter. | NUMBER | 18 |  |  | - epic\_enc\_type\_c varchar |  |
| PK | Site\_Source | The site from which the record value was derived. | NUMBER | 2 |  |  |  |  |
|  | EPIC\_Encounter\_Type | The name of the encounter type category | VARCHAR | 254 |  |  |  |  |

# DEPARTMENT

**Definition**

This is a reference table containing one record for each department associated in the ENCOUNTER table.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Accepts Null?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK | Department\_ID | The unique ID of the department for the encounter. | NUMBER | 18 |  |  |  |  |
| PK | Site\_Source | The site from which the record value was derived. | NUMBER | 2 |  |  |  |  |
|  | Department\_Name | The name of the department. | VARCHAR | 254 |  |  |  |  |
|  | Department\_Specialty | The name of the medical specialty practiced in the department. | VARCHAR | 400 |  |  |  |  |
|  | Location\_ID | The unique ID of the location record | NUMBER | 18 |  |  |  |  |
|  | Location\_Name | The name of the revenue location stored in EPIC | VARCHAR | 80 |  |  |  |  |
|  | Place\_of\_Service\_ID | The unique ID of the place of service record | NUMBER | 18 |  |  |  |  |
|  | Place\_of\_Service | The physical location, stored in EPIC as the name of the place of service. | VARCHAR | 80 |  |  |  |  |

# PROVIDER

**Definition**

This is a reference table containing one record for each Provider ID associated in the ENCOUNTER table.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- |
| PK | Provider\_ID | The unique ID assigned to the provider record. | VARCHAR | 20 |  |  |
| PK | Site\_Source | The site from which the record value was derived. | NUMBER | 2 |  |  |
|  | Primary\_Specialty | The name of the medical specialty practiced by the provider. | VARCHAR | 254 |  |  |

# MEDICATION

**Definition**

The MEDICATION table contains one record for each medication order associated with each encounter level of service. All inpatient and outpatient (ambulatory) medication orders will be loaded.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Allows Nulls?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Encounter\_ID | Site generated encounter identifier. This table will link to the ENCOUNTER table using this column. | NUMBER | (\*,0) |  |  |  |  |
| FK | Site\_Source | The site from which the record value was derived. | NUMBER | (\*,0) |  |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
|  | Order\_Med\_ID | The unique ID of the order record associated with the medication order. | NUMBER | 18 |  |  |  | * Added 1/30/2017 to prevent duplicate medication orders. |
|  | Order\_Date | The date when the medication order was placed. | DATETIME | 7 |  |  |  |  |
|  | Start\_Date | The date when the medication order started. | DATETIME | 7 |  |  |  |  |
|  | End\_Date | The date when the medication order is to end. | DATETIME | 7 |  |  |  |  |
|  | EPIC\_Medication \_ID | The site-specific, EPIC-defined unique ID of the medication record associated with the order. | NUMBER | (\*,0) |  |  |  |  |
|  | EPIC\_Medication\_Name | The site-specific, EPIC-defined name of the medication as it appears on the medication record itself. | VARCHAR | 255 |  |  |  |  |
|  | Generic\_Name | EPIC-defined generic name of the medication order | VARCHAR | 200 |  |  |  |  |
|  | Pharm\_Class | EPIC-defined pharmaceutical class of the medication order | VARCHAR | 254 |  |  |  |  |
|  | Pharm\_SubClass | EPIC-defined pharmaceutical sub-class of the medication order | VARCHAR | 254 |  |  |  |  |
|  | RxNorm\_CUI\_SCD | RxNorm concept unique identifier of the medication order | VARCHAR | 8 |  |  |  |  |
|  | RxNorm\_Name | RxNorm drug name of the medication order. | VARCHAR | 3000 |  |  |  |  |
|  | Quantity | The quantity of the prescription being dispensed. | VARCHAR | 50 |  |  |  |  |
|  | Refills | The dispense refill number. | VARCHAR | 20 |  |  |  |  |
|  | Dose | The dispensation amount. | VARCHAR | 254 |  |  |  |  |
|  | Dose\_Unit | The dosage unit of the medication record. | VARCHAR | 254 |  |  |  |  |
|  | Time\_Taken | The time the medication order was last taken. | DATETIME | 7 |  |  |  |  |
|  | Frequency | The discrete frequency record associated with the medication order. | VARCHAR | 70 |  |  |  |  |
|  | Ordering\_Mode | Inpatient/Outpatient Category of the medication order. | INT | 1 |  |  |  | * This field will identify inpatient medication orders in the analysis phase. The following values represent the ordering mode type: 1 = Outpatient, 2 = Inpatient |

# MEDICATION\_CRITERIA

**Definition**

The MEDICATION\_CRITERIA table is a mapping table containing a record for each EPIC Medication ID used for inclusion into the CKD Database Registry.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** |  |  | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Condition\_Category\_ID | Unique identifier of the condition category. This table will link to the CONDITION\_CATEGORY table using this column. | NUMBER | (\*,0) |  |  |  |  |
| FK | EPIC\_Medication\_ID | The site-specific, EPIC-defined unique ID of the medication record associated with the order. | VARCHAR | 20 |  |  |  |  |
| FK | Site\_Source | The site from which the record value was derived. | VARCHAR | 20 |  |  |  |  |
|  | EPIC\_Medication\_Name | The site-specific, EPIC-defined name of the medication as it appears on the medication record itself. | VARCHAR | 255 |  |  |  |  |
|  | Generic\_Name | EPIC-defined generic name of the medication order | VARCHAR | 250 |  |  |  |  |

# DIAGNOSIS

**Definition**

The DIAGNOSIS table contains one record for each diagnosis associated with each encounter level of service.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Nulls?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Encounter\_ID | Site generated encounter identifier. This table will link to the ENCOUNTER table using this column. | NUMBER | (\*,0) |  |  |  |  |
| FK | Site\_Source | The site from which the record value was derived. | NUMBER | (\*,0) |  |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
|  | Diagnosis\_Source | The source from which the diagnosis encounter information was pulled. | VARCHAR | 10 | Enc, Admit |  |  | * Possible values include: Enc (whether Hospital or Ambulatory), Admit (for Hospital Admission Diagnoses) |
|  | Diagnosis\_DateTime | The date and time of the diagnosis encounter | DATETIME | 7 |  |  |  |  |
|  | ICD\_Type | ICD version of the ICD Code value. | NUMBER | (\*,0) |  |  |  |  |
| FK | ICD\_Code | ICD code value of the diagnosis encounter | VARCHAR | 254 |  |  |  |  |
|  | Primary\_DX\_Flag | Defines the diagnosis encounter as a primary or secondary diagnosis | INT | 1 |  |  |  | * Primary diagnosis encounters values include: 1 = True, 0 = False |

**Future Updates**

* Present on Admission Flag

# DIAGNOSIS\_REFERENCE

**Definition**

This is a reference table containing one record for each diagnosis associated in the DIAGNOSIS table. The data contained in each record consists of the ICD Type and full ICD Code name.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Null?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK | ICD\_Code | ICD Code value. | VARCHAR | 254 |  |  |  |  |
| PK | ICD\_Type | ICD version of the ICD Code value. | NUMBER | (\*,0) |  |  |  |  |
|  | ICD\_Description | The definition of the ICD Code value. | VARCHAR | 457 |  |  |  |  |

# DIAGNOSIS\_CRITERIA

**Definition**

The DIAGNOSIS\_CRITERIA table is a mapping table containing a record for each ICD diagnosis code used for inclusion into the CKD Database Registry.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- |
|  | ICD\_Type | ICD version of the ICD Code value. | NUMBER | (\*,0) |  |  |
|  | ICD\_Code | ICD code value of the diagnosis encounter | VARCHAR | 20 |  |  |
| FK | Condition\_Category\_ID | Unique identifier of the condition category. This table will link to the CONDITION\_CATEGORY table using this column. | VARCHAR | 20 |  |  |

# CONDITION\_CATEGORY

**Definition**

This lookup-table contains one record for each laboratory, diagnosis, vital sign or medication criterion used for inclusion into the four condition-category groups in the CKD Database Registry.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Source** | **NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| PK | Condition\_Category\_ID | Unique identifier of the condition category. | VARCHAR | 20 |  |  |
|  | Condition\_Category\_Group | The condition category group to which the condition category belongs | VARCHAR | 20 |  | * Values include: CKD, HTN, DM and PDM |
|  | Condition\_Category\_Source | The inclusion criteria type of the condition category |  |  |  | * Values include: DX, LAB, VIT and MED |
|  | Condition\_Category\_Title | The full description of the condition category | VARCHAR | 254 |  |  |

**Condition\_Category Table**

| **Condition\_Category\_ID** | **Condition\_Category\_Group** | **Condition\_Category\_Source** | **Condition\_Category\_Title** |
| --- | --- | --- | --- |
| CKD | CKD | DX | Chronic Kidney Disease |
| DM | DM | DX | Diabetes |
| HTN | HTN | DX | Hypertension |
| PDM | PDM | DX | Pre-Diabetes |
| A1C\_DM | DM | LAB | A1C Diabetes |
| ALB | CKD | LAB | Albuminuria |
| GFR | CKD | LAB | GFR |
| A1C\_PDM | PDM | LAB | A1C – Pre-Diabetes |
| BGF\_DM | DM | LAB | Blood Glucose Fasting - Diabetes |
| BGF\_PDM | PDM | LAB | Blood Glucose Fasting – Pre-Diabetes |
| BGR\_DM | DM | LAB | Blood Glucose Random - Diabetes |
| BGR\_PDM | PDM | LAB | Blood Glucose Random – Pre-Diabetes |
| PRO | CKD | LAB | Proteinuria |
| HTNBP | HTN | VIT | Blood Pressure |
| DMMed | DM | MED | Diabetes Medication |

# LAB

**Definition**

The LAB table contains one record for each laboratory procedure associated with each encounter level of service.

**Data Dictionary**

| **Key** | **Field** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Nulls?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Encounter\_ID | Site generated encounter identifier. This table will link to the ENCOUNTER table using this column. | NUMBER | (\*,0) |  |  |  |  |
|  | Component\_ID | The site-specific, EPIC-defined unique identifier for the lab component | NUMBER | 18 |  |  |  |  |
| PK | Site\_Source | The site from which the record value was derived. | NUMBER | (\*,0) |  |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
|  | Component\_Name | The site-specific, EPIC-defined name of the component record | VARCHAR | 75 |  |  |  |  |
|  | Procedure\_ID | The site-specific, EPIC-defined unique ID of the procedure record. This is not the CPT code or other procedure code. | NUMBER | 18 |  |  |  |  |
|  | Procedure\_Description | The site-specific, EPIC-defined summary of the procedure order. | VARCHAR | 254 |  |  |  |  |
|  | Time\_Ordered | The date and time when the lab order was placed. | DATETIME | 7 |  |  |  |  |
|  | Time\_Taken | The date and time the lab procedure was taken. | DATETIME | 7 |  |  |  |  |
|  | Time\_Results | The date and time the lab procedure result was verified. | DATETIME | 7 |  |  |  |  |
|  | Text\_Results | The text-based result of the laboratory order. | VARCHAR | 254 |  |  |  |  |
|  | Numeric\_Results | The numeric-based result of the laboratory order. | FLOAT | 126 |  |  |  |  |
|  | Reference\_Units | The unit of measurement used for the laboratory order. | VARCHAR | 100 |  |  |  |  |
|  | LOINC\_ID | The associated LOINC ID of the laboratory order. | VARCHAR | 254 |  |  |  |  |

**Notes**

* Providence only has lab component types used for inclusion to the CKD Database Registry: Registry (\*POC encounter types are excluded): Random Glucose, Fasting Glucose, Albuminuria, Proteinuria, A1c and eGFR; Specific electrolyte tests (\*excluding all fecal test encounter types): Serum Potassium, Serum Sodium.
  + Providence is committed to distribute all lab component types for this Database v1 distribution.

# LAB\_CRITERIA

**Definition**

The LAB\_CRITERIA table is a mapping table containing a record for all site-specific lab components used as an inclusion criterion for the CKD Database Registry.

**Data Dictionary**

| **Key** | **Column Name** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Null?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Condition\_Category\_ID | Unique identifier of the condition category. | VARCHAR | 20 |  |  |  |  |
| FK | Component\_ID | The site-specific, EPIC-defined unique identifier for the lab component | NUMBER | (\*,0) |  |  |  |  |
| FK | Site\_Source | The site from which the record value was derived. | NUMBER | (\*,0) |  |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
|  | Component\_Name | The site-specific, EPIC-defined name of the component record | VARCHAR | 75 |  |  |  |  |
|  | Threshold\_Low | The lower limit value of the associated lab component. | NUMBER | (20,5) |  |  |  |  |
|  | Threshold\_High | The upper limit value of the associated lab component. | NUMBER | (20,5) |  |  |  |  |

# VITALS\_SIGN

**Definition**

This table contains vital sign measurement records associated with an encounter level of service. Only the following vital measurements will be loaded: BLOOD PRESSURE, PULSE, RESPIRATIONS, BLOOD PRESSURE TEMPERATURE, HEIGHT, WEIGHT and BMI.

**Data Dictionary**

| **Key** | **Column Name** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Null?** | **Source** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FK | Encounter\_ID | Site generated encounter identifier. This table will link to the ENCOUNTER table using this column. | NUMBER | (\*,0) |  |  |  |  |
| FK | Site\_Source | The site from which the record value was derived. | NUMBER | (\*,0) |  |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
|  | Vital\_Sign\_Type | The vital sign type of the associated vital sign encounter. | VARCHAR | 254 | BLOOD PRESSURE  PULSE  RESPIRATIONS  BLOOD PRESSURE TEMPERATURE  HEIGHT  WEIGHT  BMI |  |  |  |
|  | Vital\_Sign\_Value | The value of the vital sign encounter. | VARCHAR | 2500 | * BLOOD PRESSURE, BMI, PULSE and RESPIRATIONS: EPIC raw value * BLOOD PRESSURE TEMPERATURE: EPIC raw value in Fahrenheit * HEIGHT: Inches * WEIGHT: Ounces | NO |  | * BLOOD PRESSURE may contain only SBP values. |
|  | Vital\_Sign\_Taken\_Date | The date of the vital sign encounter. | DATETIME | 7 |  |  |  |  |

# APPENDIX A. Race Mapping

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Race2** | | | | | | | | | |
|  |  | | **White or Caucasian** | **Black or African American** | **American Indian or Alaska Native** | **Asian** | **Native Hawaiian or Other Pacific Islander** | **Other** | **Patient Refused** | **Unknown** | **Null Value** |
| **Race1** | **White or Caucasian** | | White or Caucasian | Multiple Races | Multiple Races | Multiple Races | Multiple Races | White or Caucasian | White or Caucasian | White or Caucasian | White or Caucasian |
| **Black or African American** | | Multiple Races | Black or African American | Multiple Races | Multiple Races | Multiple Races | Black or African American | Black or African American | Black or African American | Black or African American |
| **American Indian or Alaska Native** | | Multiple Races | Multiple Races | American Indian or Alaska Native | Multiple Races | Multiple Races | American Indian or Alaska Native | American Indian or Alaska Native | American Indian or Alaska Native | American Indian or Alaska Native |
| **Asian** | | Multiple Races | Multiple Races | Multiple Races | Asian | Multiple Races | Asian | Asian | Asian | Asian |
| **Native Hawaiian or Other Pacific Islander** | | Multiple Races | Multiple Races | Multiple Races | Multiple Races | Native Hawaiian or Other Pacific Islander | Native Hawaiian or Other Pacific Islander | Native Hawaiian or Other Pacific Islander | Native Hawaiian or Other Pacific Islander | Native Hawaiian or Other Pacific Islander |
| **Other** | | White or Caucasian | Black or African American | American Indian or Alaska Native | Asian | Native Hawaiian or Other Pacific Islander | Other | Other | Other | Other |
| **Patient Refused** | | White or Caucasian | Black or African American | American Indian or Alaska Native | Asian | Native Hawaiian or Other Pacific Islander | Other | Patient Refused | Patient Refused | Patient Refused |
| **Unknown** | | White or Caucasian | Black or African American | American Indian or Alaska Native | Asian | Native Hawaiian or Other Pacific Islander | Other | Patient Refused | Unknown | Unknown |
|  | **Null Value** | | White or Caucasian | Black or African American | American Indian or Alaska Native | Asian | Native Hawaiian or Other Pacific Islander | Other | Patient Refused | Unknown | Null Value |

Mapped Race Field Matrix

# APPENDIX B. Ethnicity Mapping

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **UCLA Ethnicity Mapping**   |  |  | | --- | --- | | Ethnicity Column Value | Mapped\_Ethnicity Column Value | | Cuban | Hispanic or Latino | | Hispanic or Latino | Hispanic or Latino | | Hispanic/Spanish origin Other | Hispanic or Latino | | Mexican, Mexican American, Chicano/a | Hispanic or Latino | | Not Hispanic or Latino | Not Hispanic or Latino | | Patient Refused | Patient Refused | | Puerto Rican | Hispanic or Latino | | Unknown | Unknown | | **Providence Ethnicity Mapping**   |  |  | | --- | --- | | Ethnicity Column Value | Mapped\_Ethnicity Column Value | | Hispanic or Latino | Hispanic or Latino | | Not Hispanic or Latino | Not Hispanic or Latino | | Non-Hispanic or Latino | Not Hispanic or Latino | | Null | Unknown | | Unknown | Unknown | | Patient Refused | Patient Refused | | Declined | Patient Refused | | All other values | Not Hispanic or Latino | |

# APPENDIX C. Patient Denominator Tables

## Definition

The Patient Denominator tables provides aggregated counts of the patient population eligible for inclusion to the CKD Registry Database. This table provides population denominator values for calculating epidemiological measures.

Patients eligible for inclusion to the CKD Registry Database must be seen between January 1st, 2006 and December 31, 2016 with an encounter other than:

* History (Included as of 04/12/2016 in order to add Social History)
* Erroneous Encounter
* Erroneous Telephone Encounter
* Scanned Document
* Transcribed Document
* Other eSource Document
* SMBP Historical Scanned Document
* Scanned Document No Visit
* Wait List
* Appointment encounters with appointment status not equal to *'Completed'*

**NOTE:** Providence will use billing dates rather than attempting to match the encounters defined above but are undergoing a mapping process to identify encounters that best match the encounters excluded above.

## System\_Patient\_Denominator Table

#### The System\_Patient\_Denominator table is defined as the count of distinct patients within an encounter date range. The start date will be January 1st, 2006 and the end date will be December 31st of the encounter year. Our data spans from 2006-2016 so there will be 11 date ranges displayed in the Encounter\_Year column of the table (See table etc). Patient\_Count provides the count of distinct patients grouped by the end year of the encounter date range, age (calculated as of December 31st of the end date year), gender, race and ethnicity.

|  |  |  |
| --- | --- | --- |
| Encounter\_Year | Start Date | End Date |
| 2006 | January 1st, 2006 | December 31st, 2006 |
| 2007 | January 1st, 2006 | December 31st, 2007 |
| 2008 | January 1st, 2006 | December 31st, 2008 |
| 2009 | January 1st, 2006 | December 31st, 2009 |
| 2010 | January 1st, 2006 | December 31st, 2010 |
| 2011 | January 1st, 2006 | December 31st, 2011 |
| 2012 | January 1st, 2006 | December 31st, 2012 |
| 2013 | January 1st, 2006 | December 31st, 2013 |
| 2014 | January 1st, 2006 | December 31st, 2014 |
| 2015 | January 1st, 2006 | December 31st, 2015 |
| 2016 | January 1st, 2006 | December 31st, 2016 |

#### **Data Dictionary**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Data Length** | **Acceptable Values** | **Null?** | **Source** | **Notes** |
| Site\_Source | The site from which the record value was derived. | NUMBER | 2 | 1, 2, 3, 4 |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
| Encounter\_Year | The end year of the encounter date range. | DATETIME |  | 2006, 2007, 2008 |  |  |  |
| Age | The age of the patient calculated as of December 31st of the encounter year | NUMBER | 2 |  |  |  | * Patients greater than or equal to 90 will be grouped to 90 |
| Gender | The site from which the record value was derived. | NUMBER | (\*,0) |  |  |  | * The following integer values should be used to define a site source; 1 = UCLA, 2 = PHS, 3 = KHS, 4 = SHS. |
| Mapped\_Race | CKD Data Registry defined mapping of site-specific, EPIC values. | VARCHAR | 254 | White or Caucasian, Unknown, Other, Asian, Black or African American, Patient Refused, American Indian or Alaska Native, Multiple Race, Native Hawaiian or Other Pacific Islander |  |  |  |
| Mapped\_Ethnicity | CKD Data Registry defined mapping of site-specific, EPIC values | VARCHAR | 254 |  |  |  |  |
| Patient\_Count | The total distinct patient count value | NUMBER | (\*,0) |  |  |  |  |