

DATA DICTIONARY  
2024

# Table of Contents

Introduction .....	3
Systems .....	4
Patients .....	5
Encounters .....	6
Orders .....	7
Diagnoses .....	8
Procedures .....	9
Lab Results .....	10
Medications .....	11
Report Extracts .....	12
Providers .....	13
Real-World Data Publications .....	14
Bibliography .....	15

# Introduction to the egnite Registry

This data dictionary provides an overview of the proprietary data that can be studied in the egnite Registry.

The egnite Registry includes over 6 million patient records that represent patients with at least one cardiovascular risk factor in the United States. This de-identified patient dataset is populated with electronic health record-based data, including but not limited to demographics, encounters, orders, medication prescriptions, lab results, diagnoses, and procedures, and it is further enriched with proprietary leading-edge A.I.-based extraction and data engineering to access key elements found only in unstructured or semi-structured data. It represents patients geographically distributed across the United States and across age, geography, race, ethnicity, and gender. The data are made available in a relational data model that consists of tables, fields, and values.

These data can be used for research purposes to better understand contemporary patient populations and care patterns in the United States.

# Systems

The Systems table provides basic non-identifying health system characteristics. Information associated with a given system can be accessed by referencing their respective encoded ID (SystemID).

Data Fields:

Field Name	Data Type	Description
SystemID	String	egnite-generated primary system identifier
StateEnc	String	State, encoded to standard federal name
MetropolitanCountyStatusEnc	String	Metropolitan category, encoded*
TeachingInstitution	Boolean	True if health system is an academic/teaching institution

\*Encoding Legend:

MetropolitanCountyStatusEnc
Small metro
Medium metro
Large central metro
Large fringe metro

# Patients

The Patients table is a table containing demographic and administrative information about individuals who have received care or other health-related services at least once from a participating institution. It is sourced or derived from the electronic health record unless otherwise noted (eg, encoded) and is associated downstream with many other health data tables. All documented clinical and administrative events and characteristics associated with a given patient can be accessed by referencing their respective encoded ID (**EPatientID**).

## Data Fields:

Field Name	Data Type	Description
EPatientID	String	egnite-generated primary patient identifier
GenderEnc	String	Reported gender of patient, encoded*
BirthDts	Date	Date of birth, if available (encoded as year only; any year >89 years prior to current year further encoded as 90 years prior to current year)
DeathDts	Date	Hospital-reported date of death, if applicable
RacialGroupEnc	String	Reported race categorization by SNOMED, encoded*
ZipCD	String	United States zip code associated with patient (3-digit)
SystemID	String	egnite-generated health system identifier
RegionEnc	String	Approximate United States region, encoded*

## \*Encoding Legend:

<b>GenderEnc</b>
Male
Female
Other/Unknown
<b>RacialGroupEnc</b>
Asian or Pacific islander
African race
Caucasian
Hispanic
Mixed racial group
American Indian or Alaska native
Unknown racial group
Race not stated
<b>RegionEnc</b>
Northeast
Southeast
Midwest
Southwest
West

# Encounters

The Encounters table contains data on all documented encounters, including types, for a given patient and can be associated with all resultant documented diagnoses, orders and procedures by its encoded ID (**EEncounterID**). It is sourced directly from the electronic health record unless otherwise noted (eg, encoded) and is related by **EPatientID**.

## Data Fields:

Field Name	Data Type	Description
EEncounterID	String	egnite-generated primary encounter identifier
EPatientID	String	egnite-generated primary patient identifier (links to Patient table)
EncounterDts	Date	Date of recorded encounter
EncounterTypeEnc	String	Type of encounter, encoded*
HospitalAdmissionDts	Date	Start date of the hospital admission (if applicable)
HospitalDischargeDts	Date	Discharge date for the hospital admission (if applicable)
DRGCD	String	DRG code associated with the encounter
DischargeDispEnc	String	Discharge disposition, encoded*
VisitProviderID	String	egnite-assigned visit provider identifier (encoded hash; does not disclose identity of individual)
ReferringProviderID	String	egnite-assigned referring provider identifier (encoded hash; does not disclose identity of individual)
SystemID	String	egnite-generated health system identifier

## \*Encoding Legend:

EncounterTypeEnc	
Encoded Value	Description
Inpatient	Inpatient hospital encounter
Outpatient	Outpatient encounter
Emergency	Emergency (ER) encounter
Telemedicine	Telehealth/telemedicine encounter
Lab	Lab/testing encounter
Series	Recurring care plan encounter
Procedure	Procedure encounter
Other	Miscellaneous hospital encounter
DischargeDispEnc	
Encoded Value	Description
Home	Discharged to home or self-care
Rehab	Discharged to rehabilitation facility
Nursing	Discharged to nursing facility
Transfer	Transferred to another unit/facility
Hospice	Discharged to hospice care
Expired	Patient expired
Refusal	Patient refused treatment

# Orders

The Orders table contains all documented orders for a given patient and can be used to aggregate lab results and identify categories of various clinical orders using its encoded ID (**EOrderID**). It is sourced directly from the electronic health record unless otherwise noted (eg, encoded) and can be related by **EPatientID** and **EEncounterID**.

## Data Fields:

Field Name	Data Type	Description
EOrderID	String	egnite-generated primary order identifier
EEncounterID	String	egnite-generated primary encounter identifier (links to Encounters table)
EPatientID	String	egnite-generated primary patient identifier (links to Patients table)
OrderDts	Date	Date the order was placed
OrderTypeEnc	String	Category of the order, encoded*
SystemID	String	egnite-generated health system identifier

## \*Encoding Legend:

OrderTypeEnc	
Encoded Value	Description
Lab	Lab/testing order
Imaging/Diagnostics	Any type of imaging or diagnostic testing (eg. CT, Echo, ECG, X-Ray)
Referral	Referral to another clinician/specialist
Consult	Specialist consult request order
Procedure	Procedure or surgical order
Immunization	Immunization or vaccination order
Pharmacy	Inpatient or outpatient pharmacy order
Dietary	Diet/Nutrition order
Rehabilitation	Rehabilitation consult or series order
Unknown Order Type	Type not documented/not encodable

# Diagnoses

The Diagnoses table is a combination of both the documented active diagnoses from a patient's encounters and the pre-existing problem list for the patient. It is sourced directly from the electronic health record unless otherwise noted (eg, encoded) and can be related by **EPatientID** and **EEncounterID**.

## Data Fields:

Field Name	Data Type	Description
<b>EDiagnosisID</b>	String	egnite-generated primary diagnosis identifier
<b>EEncounterID</b>	String	egnite-generated primary encounter identifier (links to Encounters table)
<b>EPatientID</b>	String	egnite-generated primary patient identifier (links to Patients table)
<b>DiagnosisDts</b>	Date	Date of diagnosis
<b>DiagnosisCD</b>	String	Diagnosis code associated with the record
<b>DiagnosisSourceEnc</b>	String	Denotes code source system*
<b>IsPrimaryEncounterDiagnosis</b>	Boolean	True if this diagnosis is marked as the primary for the associated encounter
<b>SystemID</b>	String	egnite-generated health system identifier

## \*Encoding Legend:

DiagnosisSourceEnc	
Encoded Value	Description
<b>ICD10CM</b>	International Classification of Diseases, Tenth Revision, Clinical Modification
<b>ICD9CM</b>	International Classification of Diseases, Ninth Revision, Procedure Coding System

# Procedures

The Procedures table contains all available documentation regarding procedures performed on a given patient, whether for a diagnostic and/or therapeutic purpose. This information is sourced directly from the electronic health record and is related by **EPatientID** and **EEncounterID**.

## Data Fields:

Field Name	Data Type	Description
EProcedureID	String	egnite-generated primary procedure identifier
EEncounterID	String	egnite-generated primary encounter identifier (links to Encounters table)
EPatientID	String	egnite-generated primary patient identifier (links to Patients table)
ProcedureDts	Date	Date the procedure was performed
ProcedureCD	String	Procedure code associated with this record
ProcedureCodeSourceEnc	String	Denotes code source system
SystemID	String	egnite-generated health system identifier

## \*Encoding Legend:

ProcedureCodeSourceEnc	
Encoded Value	Description
CPT	Current Procedural Terminology
ICD10PCS	International Classification of Diseases, 10th Revision, Procedure Coding System
HCPCS	Healthcare Common Procedure Coding System

# Lab Results

The Lab Results table details all documented lab, including point-of-care, results returned for a given patient. The data are sourced directly from the electronic health record, encoded by SNOMED (required; resolved via API provided by the NIH to the extent possible per data available) and LOINC (where possible; resolved using the Regenstrief LOINC Database), and can be related by **EPatientID** and **EOrderID**.

## Data Fields:

Field Name	Data Type	Description
EResultID	String	egnite-generated primary result identifier
EOrderID	String	egnite-generated primary order record identifier (links to Orders table)
EPatientID	String	egnite-generated primary patient identifier (links to Patients table)
SNOMEDResultName	String	SNOMED lab result name
SNOMEDResultCD	String	Associated SNOMED code
LOINCResultName	String	LOINC result name (if available)
LOINCResultCD	String	LOINC code (if available)
ResultDts	Date	Date the result was quantified
ResultValue	String	Text value of the result record
ResultUnits	String	Unit associated with the result (if applicable)
SystemID	String	egnite-generated health system identifier

# Medications

The Medications table contains all documented prescription orders and medication lists for a given patient. It is directly sourced from the electronic health record but encoded by RxNorm (required; resolved via API provided by NIH to the extent possible per data available). Records can be related via **EPatientID**, **EEncounterID**, and **EOrderID**.

## Data Fields:

Field Name	Data Type	Description
<b>EMedicationID</b>	String	egnite-generated primary medication identifier
<b>EPatientID</b>	String	egnite-generated primary patient identifier (links to Patients table)
<b>RxNormName</b>	String	RxNorm medication name, dosage included inline
<b>RxNormID</b>	String	RxNorm medication code
<b>MedicationStartsDts</b>	Date	Recorded start date of the prescription
<b>MedicationEndDts</b>	Date	Recorded or prospective end date of the prescription
<b>SystemID</b>	String	egnite-generated health system identifier

# Report Extracts

The Report Extracts table uses proprietary NLP and data extraction methods to obtain a wide range of data elements (>50 total in ItemKey, including disease severities and echocardiographic or electrocardiographic measures) found within semi-structured or unstructured clinical reports.

## Data Fields:

Field Name	Data Type	Description
EReportID	String	egnite-generated primary report identifier
EEncounterID	String	egnite-generated primary encounter identifier (links to Encounters table)
EPatientID	String	egnite-generated primary patient identifier (links to Patients table)
ReportDts	Date	Date of service for the report
ReportCategoryEnc	String	Category of the report, encoded*
ReportSubCategoryEnc	String	Subcategory of report, if applicable, encoded*
ItemKey	String	Name of the extracted data element
ItemValue	String	The extracted value*
ItemUnit	String	Specified unit (if applicable)
SystemID	String	egnite-generated health system identifier

## \*Encoding Legend:

ReportCategoryEnc	
Encoded Value	Description
Echo	Cardiac echocardiogram
Cath	Cardiac catheterization procedure
Electrocardiogram	Electrocardiogram
Note	Unstructured free text data (not part of a procedure report)
ReportSubCategoryEnc	
Encoded Value	Description
TTE Full	Cardiac echocardiography report - full transthoracic
TTE Limited	Cardiac echocardiography report - limited transthoracic
TEE	Cardiac echocardiography report - transesophageal
Stress Echo	Cardiac echocardiography report - stress echocardiogram
Cath Report	Cardiac catheterization report
Electrocardiogram	Electrocardiogram report
Clinical Note	Unstructured clinical note

## Example Item Value Legend (for a non-numeric value):

VHD Severity (per proprietary NLP)	
Encoded Value	Definition
Ignore	No (missing) documented assessment/diagnosis of valvular disease
Disease_Of_Indeterminate_Severity	Documented diagnosis of valvular disease without severity specified
None	Documented assessment of valvular disease with accompanying diagnosis/severity of none
Mild	Documented diagnosis of valvular disease specified as mild
Mild_To_Moderate	Documented diagnosis of valvular disease specified as mild-to-moderate
Moderate	Documented diagnosis of valvular disease specified as moderate
Moderate_To_Severe	Documented diagnosis of valvular disease specified as moderate-to-severe
Severe	Documented diagnosis of valvular disease specified as severe

# Providers

The Providers table contains basic non-identifying provider characteristics only and is sourced directly from the electronic health record. It is associated with “Visit Providers” from the Encounters table.

## Data Fields:

Field Name	Data Type	Description
EProviderID	String	egnite-generated primary provider identifier (encoded hash; does not disclose identity of individual)
SpecialtyEnc	String	Provider specialty, categorically encoded
SystemID	String	egnite-generated health system identifier

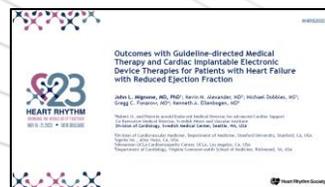
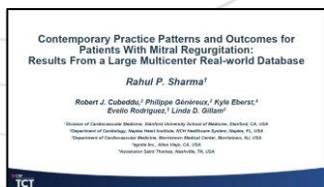
## \*Encoding Legend:

SpecialtyEnc	
Encoded Value	
Pharmacy	Genetics
Nurse	Nephrology
Interventional Cardiology	Pulmonology
Internal Medicine	Hospitalist
Primary Care	Endocrinology
Nurse Practitioner	Dermatology
Emergency Medicine	Podiatrics
Medical Assistant	Occupational Therapy
Surgery	Rheumatology
Physician Assistant	Infectious Diseases
Obstetrics	Dietetics
Orthopedics	Pain Management
Cardiology	Chiropracty
Radiology	Respiratory Therapy
Physical Therapy	Gynecology
Neurology	Allergy
Oncology	Sports Medicine
Pediatrics	Hematology
Anesthesia	Sleep Medicine
Psychology	Electrophysiology
Gastroenterology	Palliative
Urology	Hospice
Osteopathic Medicine	Physician, Other
Dental	Unknown Specialty
Ophthalmology	

# egnite Real-World Data Has Been Used in Impactful Real-World Publications

One of the largest ecosystems of extensive and deep real-world cardiovascular data has already been used to execute impactful research across multiple disease states.

## egnite Real-World Evidence Presented and Published:



# egnite Bibliography

- Généreux P, Amoroso NS, Thourani VH, Rodriguez A, Sharma RP, Pinto DS, Dobbles M, Pellikka PA, Gillam LD. Mortality burden for patients with untreated aortic regurgitation. Moderated abstract presentation at: American College of Cardiology 73rd Annual Scientific Session & Expo (ACC.24); April 6-8, 2024; Atlanta, GA.
  - Abstract: *Généreux P, Amoroso NS, Thourani VH, Rodriguez A, Sharma RP, Pinto DS, Dobbles M, Pellikka PA, Gillam LD. Mortality burden for patients with untreated aortic regurgitation. J Am Coll Cardiol. 2024;83(13\_Suppl):2134. doi: 10.1016/S0735-1097(24)04124-X*
  - Manuscript under peer review
- Généreux P, Sharma RP, Cubeddu RJ, Aaron L, Abdelfattah OM, Koulogiannis KP, Marcoff L, Naguib M, Kapadia SR, Makkar RJ, Thourani VH, van Boxtel BS, Cohen DJ, Dobbles M, Barnhart GR, Kwon M, Pibarot P, Leon MB, Gillam LD. The mortality burden of untreated aortic stenosis. *J Am Coll Cardiol. 82(22):2101-2109. doi: 10.1016/j.jacc.2023.09.796*
  - Accompanying editorial: Braunwald E. Aortic stenosis: A 6-decade odyssey. *J Am Coll Cardiol. 2023;82(22):2110-2112. doi: 10.1016/j.jacc.2023.10.001*
  - Généreux P, Sharma RP, Cubeddu RJ, Aaron L, Abdelfattah OM, Koulogiannis KP, Marcoff L, Naguib M, Kapadia SR, Makkar RJ, Thourani VH, van Boxtel BS, Cohen DJ, Dobbles M, Barnhart GR, Kwon M, Pibarot P, Leon MB, Gillam LD. Mortality associated with untreated aortic stenosis: Results from a large real-world database. Podium presentation at: Transcatheter Cardiovascular Therapeutics 2023; October 23-26, 2023; San Francisco, CA.
- Asch FM, Sharma RP, Cubeddu RJ, Généreux P, Dobbles M, Verhoef K, Kwon M, Rodriguez E, Thomas JD, Gillam LD. Gaps in contemporary echocardiographic reporting quality for mechanisms of mitral regurgitation: A call to action. *J Am Soc Echocardiogr. 2023;S0894-7317(23)00471-6. doi: 10.1016/j.echo.2023.08.021*
  - Asch FM, Sharma RP, Cubeddu RJ, Généreux P, Dobbles M, Verhoef K, Kwon M, Rodriguez E, Thomas JD, Gillam LD. Response to letter to the editor: Can we use an algorithm as an "Ariadne's thread" to escape the maze of mitral regurgitation phenotype? *J Am Soc Echocardiogr. 2023;S0894-7317(23)00535-7. doi: 10.1016/j.echo.2023.10.005*
- Sharma RP, Cubeddu RJ, Généreux P, Eberst K, Rodriguez E, Gillam LD. Contemporary practice patterns and outcomes for patients with mitral regurgitation: Results from a large multicenter real-world database. Moderated abstract presentation at: Transcatheter Cardiovascular Therapeutics 2023; October 23-26, 2023; San Francisco, CA.
  - Abstract: *Sharma RP, Cubeddu RJ, Généreux P, Eberst K, Rodriguez E, Gillam LD. Contemporary practice patterns and outcomes for patients with mitral regurgitation: Results from a large multicenter real-world database. J Am Coll Cardiol. 2023; 82(17\_Suppl):B179-B180. doi: 10.1016/j.jacc.2023.09.456*
- Amoroso NS, Sharma RP, Généreux P, Pinto DS, Dobbles M, Thourani VH, Gillam LD. Clinical journey for patients with aortic regurgitation: A retrospective observational study from a multicenter database. Presented at: TVT 2023: The Structural Heart Summit; June 7-10, 2023; Phoenix, AZ.
  - Manuscript under peer review
- Mignone JL, Alexander KM, Dobbles M, Eberst K, Fonarow GC, Ellenbogen KA. Outcomes with guideline-directed medical therapy and cardiac implantable electronic device therapies for patients with heart failure with reduced ejection fraction. *Heart Rhythm O<sup>2</sup>. 2024;5(3):168-173. doi: 10.1016/j.hroo.2024.01.004*
  - Mignone JL, Alexander KM, Dobbles M, Fonarow GC, Ellenbogen KA. Outcomes with guideline-directed medical therapy and cardiac implantable electronic device therapies for patients with heart failure with reduced ejection fraction. Presented at: Heart Rhythm Society 44th Annual meeting (Heart Rhythm 2023); May 19-21, 2023; New Orleans, LA.
  - Abstract: *Mignone JL, Alexander KM, Dobbles M, Fonarow GC, Ellenbogen KA. Outcomes with guideline-directed medical therapy and cardiac implantable electronic device therapies for patients with heart failure with reduced ejection fraction. Heart Rhythm. 2023;20(5):S138. doi: 10.1016/j.hrthm.2023.03.483*
- Généreux P, Sharma RP, Cubeddu RJ, Kapadia SR, Thourani VH, Makkar RR, Cohen DJ, Dobbles M, Barnhart GR, Leon MB, Gillam LD. Prognostic impact of cardiac damage across the spectrum of aortic stenosis severity: Results from a large real-world database. Podium presentation at: American College of Cardiology 72nd Annual Scientific Session Together with World Congress of Cardiology; March 4-6, 2023; New Orleans, LA.
  - Abstract: *Généreux P, Sharma RP, Cubeddu RJ, Kapadia SR, Thourani VH, Makkar RR, Cohen DJ, Dobbles M, Barnhart GR, Leon MB, Gillam LD. Prognostic impact of cardiac damage across the spectrum of aortic stenosis severity: Results from a large real-world database. J Am Coll Cardiol. 2023;81(8\_Suppl):1930. doi: 10.1016/S0735-1097(23)02374-4*
  - Manuscript under peer review
- Brennan JM, Petrescu M, McCarthy P, Moualla S, Nance H, Barnhart GR, Rodriguez E, Thomas J. Contemporary prevalence of valvular heart disease & diagnostic variability across centers. Poster presented at: American College of Cardiology 71st Annual Scientific Session & Expo; April 2-4, 2022; Washington, DC.
  - Abstract: *Brennan JM, Petrescu M, McCarthy PM, Moualla S, Nance H, Barnhart GR, Rodriguez E, Thomas JD. Contemporary prevalence of valvular heart disease & diagnostic variability across centers. J Am Coll Cardiol. 2022;79(9\_Suppl):1723. doi: 10.1016/S0735-1097%2822%2902714-0*
- Moualla SK, McCarthy PM, Thomas JD, Dobbles M, Petrescu OM, Loper T, Barnhart GR, Brennan JM. Artificial intelligence-enabled predictive model of progression from moderate to severe aortic stenosis. *Intelligence-Based Medicine. 2022;6:100062. doi: 10.1016/j.ibmed.2022.100062*
  - Earlier validation presented at TCT 2022.
  - Abstract: *Moualla S, McCarthy P, Thomas J, Dobbles M, Petrescu M, Loper T, Barnhart GR, Brennan M. Using artificial intelligence to predict the progression from moderate to severe aortic stenosis. J Am Coll Cardiol. 2021;78(19\_Suppl\_S):B24. doi: 10.1016/j.jacc.2021.09.908*
- Thomas JD, Petrescu OM, Moualla SK, Dobbles M, Hays JC, Rodriguez E, Barnhart GR. Artificial intelligence to assist physicians in identifying patients with severe aortic stenosis. *Intelligence Based Medicine. 2022;6:100059. doi: 10.1016/j.ibmed.2022.100059*



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