

Children's Mercy Hospital Empirical Data Characterization Summary

Table IA. Demographic Summary

This table contains general descriptive information about the patients in the DEMOGRAPHIC table. These patients may or may not be represented in other CDM tables.

	N	%	Source table
Patients	611,242		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	14		
Median	10		
Age group			DEM_L3_AGEYRSDIST2
0-4	127,682*	20.9	
5-14	273,055	44.6	
15-21	129,519	21.2	
22-64	70,131	11.4	
65+	10,768	1.7	
Missing	85	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	0	0.0	
Y (Yes)	52,985	8.7	
Missing or Refused	558,257	91.3	
Sex			DEM_L3_SEXDIST
F (Female)	297,869	48.7	
M (Male)	310,312	50.8	
Missing or Ambiguous	3,061	0.5	
Race			DEM_L3_RACEDIST
White	345,099	56.5	
Non-White	121,021	19.9	
Missing or Refused	145,122	23.8	

Table excludes records with values outside of CDM specifications.

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Table IB. Potential Pools of Patients

This table illustrates the number of patients meeting different inclusion criteria and supports data checks 3.04 and 3.05. Data check exceptions are highlighted in red and must be corrected.

Metric	Metric Description	Result	Source table
Potential pool of patients for observational studies	Number of unique patients with at least 1 ED, EI, IP, or AV encounter within the past 5 years	446,951	ENC_L3_DASH2
Potential pool of patients for trials	Number of unique patients with at least 1 ED, EI, IP, or AV encounter within the past 1 year	200,781	ENC_L3_DASH2
Potential pool of patients for studies requiring data on diagnoses, vital measures and (a) medications or (b) medications and lab results	Number of unique patients with at least 1 ED, EI, IP, or AV encounter and DIAGNOSIS and VITAL records within the past 5 years	399,408	XTBL_L3_DASH1
	Number of unique patients with at least 1 encounter and DIAGNOSIS, VITAL, and PRESCRIBING or DISPENSING records within the past 5 years	208,935	XTBL_L3_DASH2
	Number of unique patients with at least 1 encounter and DIAGNOSIS, VITAL, PRESCRIBING or DISPENSING, and LAB_RESULT_CM records within the past 5 years	75,632	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	86%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	80%	ENC_L3_N; PRO_L3_N

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Table IC. Height, Weight, and Body Mass Index

This table contains descriptive statistics and frequencies of VITAL table measurements.

	Result	%	Source table
Height measurements			VIT_L3_HT_DIST
Records	1,976,210		
Height (inches), mean	1,625,995		
Height (inches), median	49		
Weight measurements			VIT_L3_WT_DIST
Records	3,892,550		
Weight (lbs.), mean	125		
Weight (lbs.), median	45		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	1,428,543		
BMI <=25	1,213,081	84.9	
BMI 26-30	112,542	7.9	
BMI >=31	102,920	7.2	

Table excludes records with null or missing values.

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Table ID. Records, Patients, Encounters, and Date Ranges by Table

This table contains summary counts and date ranges by table. The Encounters column shows the number of distinct ENCOUNTERIDS in each table. ENCOUNTERID is required for ENCOUNTER, DIAGNOSIS, and PROCEDURES and optional for VITAL, PRESCRIBING and DISPENSING. Missingness for ENCOUNTERID is depicted in Table IVD.

Table	Records	Patients	Encounters	Data Range			Source Tables
				Field name	Min	Max	
DEMOGRAPHIC	611,242	611,242	---	BIRTH_DATE	1926_Apr	2099_Sep	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	611,016	611,016	---	ENR_START_DATE	2010_Jan	2017_Mar	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	4,618,388	611,016	4,618,388	ADMIT_DATE	2010_Jan	2017_Mar	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	12,438,469	525,357	3,360,562	ADMIT_DATE	2010_Jan	2017_Mar	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	4,350,771	486,238	2,677,409	ADMIT_DATE	1992_Jul	5015_Mar	PRO_L3_N; XTBL_L3_DATES
DEATH	1,437	1,437	---	DEATH_DATE	1995_Dec	2017_Mar	DEATH_L3_N; XTBL_L3_DATES
VITAL	9,172,942	466,618	2,593,404	MEASURE_DATE	1998_Feb	2020_Feb	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	853,401	119,392	318,398	RESULT_DATE	2010_Jan	2017_Mar	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	2,325,689	211,986	558,516	RX_START_DATE	2010_Jun	2017_Sep	PRES_L3_N; XTBL_L3_DATES

Table IE. Records Per Table By Encounter Type

This table contains record counts by encounter type for the ENCOUNTER, DIAGNOSIS, and PROCEDURES tables.

Encounter Type	ENCOUNTER		DIAGNOSIS		PROCEDURES	
	N	%	N	%	N	%
AV (Ambulatory Visit)	2,665,490	57.7	5,598,344	45.0	2,859,875	65.7
ED (Emergency Dept)	1,125,404	24.4	4,906,333	39.4	1,081,221	24.9
EI (ED to IP Stay)	0		0		0	
IP (Inpatient Hospital Stay)	98,628	2.1	840,141	6.8	250,691	5.8
IS (Non-acute Institutional Stay)	0		0		0	
OA (Other Ambulatory Visit)	0		0		0	
Missing, NI, UN or OT	728,866	15.8	1,093,651	8.8	158,984	3.7
Total	4,618,388		12,438,469		4,350,771	
Source table	ENC_L3_ENCTYPE		DIA_L3_ENCTYPE		PRO_L3_ENCTTPE	

Table IG. Lab Results

This table illustrates the number of records and number of unique patients for each LAB_NAME, and the percentage of patients in the ENCOUNTER table who have these results. Although there is not a required relationship between the ENCOUNTER and LAB_RESULT_CM tables, patients with encounters are the most relevant denominator for this table. LAB_NAME will be NULL or missing for lab results which do not correspond to a common lab measure.

LAB_NAME	Records	Percentage of records in the LAB_RESULT_CM table	Patients	Percentage of patients in the ENCOUNTER table	Source tables
A1C	40,721	4.8	20,429	3.3	LAB_L3_NAME;ENC_L3_N
CK	134	0.0	95	0.0	LAB_L3_NAME;ENC_L3_N
CK_MB	523	0.1	286	0.0	LAB_L3_NAME;ENC_L3_N
CK_MBI	110	0.0	88	0.0	LAB_L3_NAME;ENC_L3_N
CREATININE	356,731	41.8	75,332	12.3	LAB_L3_NAME;ENC_L3_N
HGB	368,524	43.2	99,378	16.3	LAB_L3_NAME;ENC_L3_N
INR	43,727	5.1	14,099	2.3	LAB_L3_NAME;ENC_L3_N
LDL	41,693	4.9	25,563	4.2	LAB_L3_NAME;ENC_L3_N
TROP_I	1,238	0.1	464	0.1	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	0		0	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	0		0	0.0	LAB_L3_NAME;ENC_L3_N
NULL or missing	0		0	0.0	LAB_L3_NAME;ENC_L3_N
Total	853,401		235,734		

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Table IIID. Encounters Per Visit and Per Patient

This table shows the number of encounters, patients, visits (unique combinations of PATID, ADMIT_DATE, ENC_TYPE, and PROVIDER_ID), encounters per patient, and encounters per visit by encounter type and supports Data Check 2.04. A high number of encounters per visit may signal potential redundancy or duplication. Data check exceptions are highlighted in blue and should be investigated.

Encounter Type	Encounters	Patients	Encounters per Patient	Encounters with known PROVIDERID	Visit (unique combinations of PATID, ENC_TYPE, ADMIT_DATE, and PROVIDERID)	Encounters with known PROVIDERID per visit	Source table
AV (Ambulatory Visit)	2,665,490	416,366	6.4	2,665,490	2,665,490	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	1,125,404	317,546	3.5	1,125,404	1,125,404	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	98,628	61,573	1.6	98,628	98,628	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	0	0		0	0		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	0	0		0	0		ENC_L3_ENCTYPE
Missing, NI, UN or OT	728,866	316,677	2.3	728,866	728,866	1.00	ENC_L3_ENCTYPE

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