

LESS Registry Electronic Medical Record (EMR) Data Dictionary

COMORBIDITY (ICD9Comorbidity-LESS_EMRDATA-Quan2.CSV)

Quan co-morbidity score calculated from 365 days prior to index back pain visit

HOSPITALIZATIONS (LESS_EMRDATA_Hospitalizations.CSV)

All hospitalizations between days -365 to 730

Multiple rows per patient

IMAGING (LESS_EMRDATA_Image.CSV)

All lumbar spine imaging procedures between days -365 to 730

Multiple rows per patient

INDEX VISIT (LESS_EMRDATA_IndexVisit.CSV)

Data with respect to index visit

One row per study participant

Include all primary and secondary ICD-9 visit codes and type/setting of index visit

INSURANCE (LESS_EMRDATA_Insurance.CSV)

Information on primary and secondary insurance for the patient

One row per study participant

LABS (LESS_EMRDATA_Labs.CSV)

Data on laboratory tests between days -365 to 730

Multiple rows per patient.

PHARMACY FILLS (LESS_EMRDATA_PharmacyFilled.CSV)

All new and refilled filled prescriptions between days -365 to 730

Multiple rows per patient.

PHARMACY PRESCRIPTIONS (LESS_EMRDATA_PharmacyPrescribed.CSV)

All new and refilled written prescriptions between days -365 to 730

Multiple rows per patient.

PROCEDURES (LESS_EMRDATA_Procedures.CSV)

All outpatient procedures between days -365 to 730

Multiple rows per patient.

PROVIDER VISITS (Gold-SPINE-LESS_EMRDATA_ProviderVisit.CSV)

All provider visits between days -365 to 730

Multiple rows per patient.

Include all primary and secondary ICD-9 visit codes

Notes: Some duplication between this file and images, procedures, and hospitalizations files. To avoid double-counting, use only rows of data in which FLAG=1)

VITAL SIGNS (LESS_EMRDATA_VitalSigns.CSV)

Multiple rows per patient.

Comorbidity			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
myo_infarct	Diagnosis of myocardial infarction in 12 months prior to index	Num	1=Yes 0=No
heart_fail	Diagnosis of heart failure in 12 months prior to index	Num	1=Yes 0=No
per_vasc_dis	Diagnosis of peripheral vascular disease in 12 months prior to index	Num	1=Yes 0=No
cerebro_dis	Diagnosis of cerebrovascular disease in 12 months prior to index	Num	1=Yes 0=No
dementia	Diagnosis of dementia in 12 months prior to index	Num	1=Yes 0=No
chron_pulm_dis	Diagnosis of chronic pulmonary disease in 12 months prior to index	Num	1=Yes 0=No
rheumatic_dis	Diagnosis of rheumatic disease in 12 months prior to index	Num	1=Yes 0=No
pep_ulcer_dis	Diagnosis of peptic ulcer disease in 12 months prior to index	Num	1=Yes 0=No
mild_liver_dis	Diagnosis of mild liver disease in 12 months prior to index	Num	1=Yes 0=No
diab_wo_comp	Diagnosis of diabetes without complications in 12 months prior to index	Num	1=Yes 0=No
diab_with_comp	Diagnosis of diabetes with complications in 12 months prior to index	Num	1=Yes 0=No
para_hemi	Diagnosis of hemiplegia in 12 months prior to index	Num	1=Yes 0=No
renal_dis	Diagnosis of renal disease in 12 months prior to index	Num	1=Yes 0=No
cancer	Diagnosis of cancer in 12 months prior to index	Num	1=Yes 0=No
sev_liver_dis	Diagnosis of severe liver disease in 12 months prior to index	Num	1=Yes 0=No
meta_carc	Diagnosis of metastatic cancer in 12 months prior to index	Num	1=Yes 0=No
aids_hiv	Diagnosis of HIV/AIDS in 12 months prior to index	Num	1=Yes 0=No
comorbid_score	Quan co-morbidity score	Num	1=Yes 0=No

Hospitalizations			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
hospitalization_admitday	Days since index back pain visit until hospital admission	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
hospitalization_admyear	Year admitted to hospital	Num	
hospitalization_dischargeday	Days since index back pain visit until hospital discharge	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
hospitalization_dischargeyear	Year discharged from hospital	Num	
hospitalization_drg	Diagnosis Related Group code at discharge	Num	
hospitalization_dischargedisposition	Discharge location of patient	Text	
hospitalization_icd9 primary	Primary ICD9 code assoc with hospitalization	Text	
hospitalization_icd9 secondary_1	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9 secondary_2	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	

Hospitalizations			
field	description	type	codes
hospitalization_icd9_secondary_3	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_4	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_5	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_6	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_7	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_8	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_9	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_icd9_secondary_10	Secondary ICD9 codes assoc with hospitalization (multiple)	Text	
hospitalization_procdays	Days since index back pain visit until in-hospital procedures	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
hospitalization_proccode	CPT code of in-hospital procedures	Text	
hospitalization_icd9proccode	ICD-9 procedure code for in-hospital procedures	Text	

Imaging			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
image_day	Days since index back pain visit.	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
image_year	Year of image	Num	
image_primaryicd9	ICD9 code associated with image	Text	
image_orderingprovidertype	Type of provider- MD, DO, PA-C, NP etc_	Text	
image_orderingprovideraage	Age category of ordering provider	Num	
image_orderingprovidergender	Gender of ordering provider	Text	1 or M=Male 2 or F=Female 3 or U=Unknown
image_orderingproviderspeciality	Residency training of ordering physician	Text	
image_indication	Indication for image from ordering provider	Text	
image_result	Result of image from radiology interpretation	Text	
image_code	CPT code of image	Text	
image_order_id	Identification of ordering provider	Num	

Index Visit			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
index_day	Days since index back pain visit.	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
index_year	Year of index visit	Num	
index_primaryicd9	Primary ICD9 code at index visit	Text	
index_secondaryicd9_1	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_2	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_3	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_4	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_5	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_6	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_7	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_8	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_9	Secondary ICD9 codes at index visit (up to 10)	Text	
index_secondaryicd9_10	Secondary ICD9 codes at index visit (up to 10)	Text	
index_clinicspecialty	Medical Specialty of the clinic where the index visit took place	Text	
index_setting	Setting of index visit- Outpatient, Urgent Care, Emergency Department	Text	
index_enountertype	In-person visit, Call, Email	Num	0=In-person visit, 1=Phone call, 2=Email
index_facilitycode	Facility identifier	Text	
index_providertype	Type of provider- MD, DO, PA-C, NP etc_	Text	
index_providerid	Provider Identification code	Num	

Insurance			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
insurance_primarypre	Primary insurance- at 12mo prior to index visit	Text	
insurance_primaryindex	Primary insurance at index visit date	Text	
insurance_primarypost	Primary insurance- at 12mo after index visit	Text	
insurance_secondarypre	Secondary insurance- at 12mo prior to index visit	Text	
insurance_secondaryindex	Secondary insurance at index visit date	Text	
insurance_secondarypost	Secondary insurance- at 12mo after index visit	Text	

Labs			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
lab_day	Days since index back pain visit.	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
lab_type	Lab type	Text	
lab_result	Numerical lab result	Text	
lab_resulttext	Lab results that are text	Text	
lab_resultunits	Units of lab result	Text	
lab_normlowerbound	Normal range of lab result (lower bound)	Text	
lab_normupperbound	Normal range of lab result (upper bound)	Text	

Pharmacy Fills				
field	description	type	codes	Notes
crosswalk_id	LESS study ID	Num		
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard	
pharmacy_ndc	National Drug Code	Text		
pharmacy_ndc_product	National Drug Code product	Text		
pharmacy_ndc_package	National Drug Code Package	Text		
pharmprescribed_day	Days since index back pain visit until drug was prescribed	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index	
pharmprescribed_year	Year of prescription	Num		
pharm_providerspec	Specialty of prescribing physician	Text		
pharmfilled_day	Days since index back pain visit until drug was filled	Num		
pharmfilled_year	Year of prescription was filled	Num		
pharmfilled_drugname	Drug name	Text		
pharmfilled_filledgeneric	Was prescription generic?	1=Yes 0=No		
pharmfilled_prescription	Prescription text	Text		
pharmfilled_supply	Number of days' supply in prescription	Num		
pharmfilled_quantity	Quantity of prescription	Num		
pharmfilled_quantityunits	Quantity units	Text		
pharmfilled_dose	Dose of prescription	Text		
pharmfilled_doseunits	Dose units	Text		
pharmfilled_refillday	Days since index back pain visit until refill was prescribed	Num		
pharmfilled_refillyear	Year of refill prescription	Num		
PRODUCTNDC				See Marketscan documentation
PRODUCTTYPENAME				See Marketscan documentation
PROPRIETARYNAME				See Marketscan documentation

Pharmacy Fills				
field	description	type	codes	Notes
PROPRIETARYNAMESUFFIX				See Marketscan documentation
NONPROPRIETARYNAME				See Marketscan documentation
DOSAGEFORMNAME				See Marketscan documentation
ROUTENAME				See Marketscan documentation
STARTMARKETINGDATE				See Marketscan documentation
ENDMARKETINGDATE				See Marketscan documentation
MARKETINGCATEGORYNAME				See Marketscan documentation
APPLICATIONNUMBER				See Marketscan documentation
LABELERNAME				See Marketscan documentation
SUBSTANCENAME				See Marketscan documentation
ACTIVE_NUMERATOR_STRENGTH				See Marketscan documentation
ACTIVE_INGRED_UNIT				See Marketscan documentation
PHARM_CLASSES				See Marketscan documentation
DEASCHEDULE				See Marketscan documentation
NDCNUM				See Marketscan documentation
DEACLAS				See Marketscan documentation
GENERID				See Marketscan documentation
MAINTIN				See Marketscan documentation
ORGBKCD				See Marketscan documentation
PRODCAT				See Marketscan documentation
SIGLSRC				See Marketscan documentation
GENIND				See Marketscan documentation

Pharmacy Fills

field	description	type	codes	Notes
ORGBKFG				See Marketscan documentation
DESIDRG				See Marketscan documentation
MASTFRM				See Marketscan documentation
PKQTYCD				See Marketscan documentation
THERCLS				See Marketscan documentation
EXCLDRG				See Marketscan documentation
THERGRP				See Marketscan documentation
PKSIZE				See Marketscan documentation
THERDTL				See Marketscan documentation
GNINDDS				See Marketscan documentation
METSIZE				See Marketscan documentation
MAINTDS				See Marketscan documentation
STRNGTH				See Marketscan documentation
PRDCTDS				See Marketscan documentation
EXCDGDS				See Marketscan documentation
ORGBKDS				See Marketscan documentation
THRDTDS				See Marketscan documentation
MSTFMDS				See Marketscan documentation
THRCLDS				See Marketscan documentation
THRGRDS				See Marketscan documentation
DEACLDS				See Marketscan documentation
PRODNME				See Marketscan documentation

Pharmacy Fills

field	description	type	codes	Notes
MANFNME				See Marketscan documentation
GENNME				See Marketscan documentation

Pharmacy Prescriptions				
field	description	type	codes	Notes
crosswalk_id	LESS study ID	Num		
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard	
pharmacy_ndc	National Drug Code	Text		
pharmacy_ndc_product	National Drug Code product	Text		
pharmacy_ndc_package	National Drug Code Package	Text		
pharmprescribed_day	Days since index back pain visit until drug was prescribed	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index	
pharmprescribed_year	Year of prescription	Num		
pharm_providerspec	Specialty of prescribing physician	Text		
pharmprescribed_day	Days since index back pain visit until drug was filled	Num		
pharmprescribed_year	Year of prescription was filled	Num		
pharmprescribed_drugname	Drug name	Text		
pharmprescribed_generic	Was prescription generic?	Num	1=Yes 0=No	
pharmprescribed_prescription	Prescription text	Text		
pharmprescribed_supply	Number of days' supply in prescription	Num		
pharmprescribed_quantity	Quantity of prescription	Num		
pharmprescribed_quantityunits	Quantity units	Text		

Pharmacy Prescriptions				
field	description	type	codes	Notes
pharmprescribed_dose	Dose of prescription	Text		
pharmprescribed_doseunits	Dose units	Text		
pharmprescribed_refillnum	Number of refills for prescription	Num		
PRODUCTNDC				See Marketscan documentation
PRODUCTTYPE				See Marketscan documentation
PROPRIETARYNAME				See Marketscan documentation
PROPRIETARYNAMESUFFIX				See Marketscan documentation
NONPROPRIETARYNAME				See Marketscan documentation
DOSAGEFORMNAME				See Marketscan documentation
ROUTENAME				See Marketscan documentation
STARTMARKETINGDATE				See Marketscan documentation
ENDMARKETINGDATE				See Marketscan documentation
MARKETINGCATEGORYNAME				See Marketscan documentation
APPLICATIONNUMBER				See Marketscan documentation
LABELERNAME				See Marketscan documentation
SUBSTANCENAME				See Marketscan documentation
ACTIVE_NUMERATOR_STRENGTH				See Marketscan documentation
ACTIVE_INGRED_UNIT				See Marketscan documentation
PHARM_CLASSES				See Marketscan documentation
DEASCHEDULE				See Marketscan documentation
NDCNUM				See Marketscan documentation
DEACLAS				See Marketscan documentation

Pharmacy Prescriptions

field	description	type	codes	Notes
GENERID				See Marketscan documentation
MAINTIN				See Marketscan documentation
ORGBKCD				See Marketscan documentation
PRODCAT				See Marketscan documentation
SIGLSRC				See Marketscan documentation
GENIND				See Marketscan documentation
ORGBKFG				See Marketscan documentation
DESIDRG				See Marketscan documentation
MASTFRM				See Marketscan documentation
PKQTYCD				See Marketscan documentation
THERCLS				See Marketscan documentation
EXCLDRG				See Marketscan documentation
THERGRP				See Marketscan documentation
PKSIZE				See Marketscan documentation
THERDTL				See Marketscan documentation
GNINDDS				See Marketscan documentation
METSIZE				See Marketscan documentation
MAINTDS				See Marketscan documentation
STRNGTH				See Marketscan documentation
PRDCTDS				See Marketscan documentation
EXCDGDS				See Marketscan documentation
ORGBKDS				See Marketscan documentation

Pharmacy Prescriptions				
field	description	type	codes	Notes
THRDTDS				See Marketscan documentation
MSTFMDS				See Marketscan documentation
THRCLDS				See Marketscan documentation
THRGRDS				See Marketscan documentation
DEACLDS				See Marketscan documentation
PRODNME				See Marketscan documentation
MANFNME				See Marketscan documentation
GENNME				See Marketscan documentation

Procedures			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
proc_day	Days since index back pain visit.	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
proc_year	Year of procedure	Num	
proc_code	CPT code of procedure	Num	
proc_type	Type of procedure	Text	
proc_primaryicd9	Primary ICD-9 Diagnosis code of procedure	Text	
proc_indication	Indication for procedure	Text	
proc_perfproviderspec	Performing provider specialty	Text	
proc_order_id	Identification number of performing provider	Num	

Provider Visits			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
visit_day	Days since index back pain visit.	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
visit_year	Year or provider visit	Num	
visit_primaryicd9	Primary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_1	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_2	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_3	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_4	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_5	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_6	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_7	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_8	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_9	Secondary ICD-9 Diagnosis code of visit	Text	
visit_secondaryicd9_10	Secondary ICD-9 Diagnosis code of visit	Text	
visit_clinicspecialty	Specialty of clinic	Text	
visit_setting	Setting of visit	Text	
visit_enountertype	Type of encounter	Text	
visit_facilitycode	Facility code	Text	
visit_providertype	Provider type	Text	
visit_providerspec	Provider specialty	Text	
Flag	Indicates whether the visit is duplicated in procedures, images, or hospitalizations domains	Num	0=Duplicated in another domain 1=Not duplicated in another domain

Vital signs			
field	description	type	codes
crosswalk_id	LESS study ID	Num	
study_site	LESS study site	Num	1=Henry Ford 2=Kaiser 3=Harvard Vanguard
vital_day	Days since index back pain visit.	Num	Negative numbers indicate prior to index 0=index date Positive numbers indicate visit happened after index
vital_year	Year of vital signs	Num	
vital_height	Height	Num	
vital_weight	Weight	Num	
vital_systolic	Systolic blood pressure	Num	
vital_diastolic	Diastolic blood pressure	Num	