

## MAT 4376 Project 2 - Data Dictionary (simple) for Mimic 3

**Table 32.1** Attributes in the MIMIC-III dataset [11]

	Attributes	Descriptions
1	'hadm_id', 'gender', 'age', 'religion', 'marital_status', 'ethnicity'	Patient demographics
2	'insurance', 'admit_type', 'admit_location', 'AdmitDiagnosis', 'AdmitProcedure', 'NumCallouts', 'NumDiagnosis', 'NumProcs', 'NumCPTevents', 'NumInput', 'NumLabs', 'NumMicroLabs', 'NumNotes', 'NumOutput', 'NumRx', 'NumProcEvents', 'NumTransfers', 'NumChartEvents', 'ExpiredHospital', 'TotalNumInteract'	Admit information, daily average numbers of callouts for consultation, diagnoses, procedures, Current Procedural Terminology (CPT) events, input events, labs, microbiology labs, notes, output events, medical prescription, procedural events (insertion of an arterial line), transfers between care units, chart events, mortality, the summary of all the daily average numbers
3	'LOSdays', 'LOSgroupNum'	Patient length of stay in numerical and categorical data

### Variables:

#### **NumCallouts:**

- Number of performed callouts
  - request for assistance or consultation from another medical professional or department.

#### **NumDiagnosis**

- Number of diagnoses entered to the system
  - number of different diagnoses assigned to the patient during their hospital stay. Diagnoses are medical conditions or diseases identified by healthcare professionals.

#### **NumProcs**

- Number of performed procedures
  - surgical procedures, diagnostic tests, or other medical interventions.

#### **AdmitProcedure**

- Diagnosis Admission Diagnosis

#### **NumCPTevents**

- Number of performed current procedural terminology events (CPT)
  - CPT stands for Current Procedural Terminology, which is a standardized system of medical codes used to report procedures and services. NumCPTevents represents the number of CPT events recorded for the patient during their hospital stay.

#### **NumInput**

- Number of performed inputs

- volume or amount of fluids, medications, or other substances administered to the patient. It is typically measured in some unit of measurement (e.g., milliliters) and represents the input into the patient's body.

#### **NumLabs**

- Number of performed lab tests
  - blood tests, urine tests, imaging studies, or other diagnostic investigations.

#### **NumMicroLabs**

- Number of performed microbiology test
  - Microbiology labs focus on the identification and analysis of microorganisms (e.g., bacteria, viruses) that may be related to infections or other medical conditions.

#### **NumNotes**

- Number of written notes and summaries
  - physician's observations, progress reports, treatment plans, and other relevant information.

#### **NumOutput**

- Number of outputs performed
  - volume or amount of fluids, such as urine or drainage, that the patient excreted or had removed from their body. (mm)

#### **NumRx**

- Number of performed x-rays OR number of prescriptions or medications ordered for the patient during their hospital stay. (most likely prescription)

#### **NumProcEvents**

- Number of performed procedure events
  - surgeries, diagnostic procedures, therapeutic interventions, and other medical actions carried out as part of the patient's healthcare.

#### **NumTransfers**

- Number of performed transfers
  - transfers between different units, wards, or departments within the hospital.

#### **NumChartEvents**

- Number of performed chart events
  - documentation of important medical information, such as vital signs, medication administration, nursing assessments, and other relevant data. (during hospitalization)

#### **ExpiredHospital**

- Indicates if the patient as died or not
  - (0 or 1) indicates whether the patient expired or died during their hospital stay (1) or not (0)

#### **TotalNumInteract**

- Total number of performed interactions
  - consultations, discussions, or interactions related to care planning or treatment decisions.

#### **LOSgroupNum**

- Length of Stay in Intensive Care Unit

- This variable likely represents the length of stay group number to which the patient belongs. It is possible that the dataset categorizes patients into different groups based on the length of their hospital stay.

	on admission	Intensive Care U
<sup>a</sup>	0: LOS 0-4 days; 1: LOS 4-8 days; 2: LOS 8-12 days; 3: LOS > 12 days	

([https://books.google.ca/books?id=jj8mEAAAQBAJ&pg=PA290&lpg=PA290&dq=NumDiagnosis+NumProcs+AdmitProcedure+NumCPTevents+NumInput+NumLabs+NumMicroLabs+NumNotes+NumOutput+NumRx+NumProcEvents+NumTransfers+NumChartEvents+ExpiredHospital+TotalNumInteract+LOSgroupNum&source=bl&ots=7mYlsmHXYF&sig=ACfU3U1uUnfWBGQcDTwSHTcxvscV6slJAQ&hl=en&sa=X&ved=2ahUKEwjNudzL6q7\\_AhX4jokEHS-pDZEQ6AF6BAggEAM#v=onepage&q=NumDiagnosis%20NumProcs%20AdmitProcedure%20NumCPTevents%20NumInput%20NumLabs%20NumMicroLabs%20NumNotes%20NumOutput%20NumRx%20NumProcEvents%20NumTransfers%20NumChartEvents%20ExpiredHospital%20TotalNumInteract%20LOSgroupNum&f=false](https://books.google.ca/books?id=jj8mEAAAQBAJ&pg=PA290&lpg=PA290&dq=NumDiagnosis+NumProcs+AdmitProcedure+NumCPTevents+NumInput+NumLabs+NumMicroLabs+NumNotes+NumOutput+NumRx+NumProcEvents+NumTransfers+NumChartEvents+ExpiredHospital+TotalNumInteract+LOSgroupNum&source=bl&ots=7mYlsmHXYF&sig=ACfU3U1uUnfWBGQcDTwSHTcxvscV6slJAQ&hl=en&sa=X&ved=2ahUKEwjNudzL6q7_AhX4jokEHS-pDZEQ6AF6BAggEAM#v=onepage&q=NumDiagnosis%20NumProcs%20AdmitProcedure%20NumCPTevents%20NumInput%20NumLabs%20NumMicroLabs%20NumNotes%20NumOutput%20NumRx%20NumProcEvents%20NumTransfers%20NumChartEvents%20ExpiredHospital%20TotalNumInteract%20LOSgroupNum&f=false)) page 290

[https://books.google.ca/books?id=5qd3EAAAQBAJ&pg=PA372&lpg=PA372&dq=medical+dataset+glossary+NumMicroLabs%09NumNotes%09NumOutput%09NumRx%09NumProcEvents&source=bl&ots=ITXPeFn\\_3w&sig=ACfU3U0WBIhArvTx6bFen5EdG\\_QsSlq\\_uq&hl=en&sa=X&ved=2ahUKEwiz0ZGa8a7\\_AhVbkYkEHVRTC8oQ6AF6BAglEAM#v=onepage&q=medical%20dataset%20glossary%20NumMicroLabs%09NumNotes%09NumOutput%09NumRx%09NumProcEvents&f=false](https://books.google.ca/books?id=5qd3EAAAQBAJ&pg=PA372&lpg=PA372&dq=medical+dataset+glossary+NumMicroLabs%09NumNotes%09NumOutput%09NumRx%09NumProcEvents&source=bl&ots=ITXPeFn_3w&sig=ACfU3U0WBIhArvTx6bFen5EdG_QsSlq_uq&hl=en&sa=X&ved=2ahUKEwiz0ZGa8a7_AhVbkYkEHVRTC8oQ6AF6BAglEAM#v=onepage&q=medical%20dataset%20glossary%20NumMicroLabs%09NumNotes%09NumOutput%09NumRx%09NumProcEvents&f=false) (page 372)