

Field Name	Data Type	Changes (if any)	Description (if Needed)
Encounter_ID	Int64 (Number-whole)	N/a	The ID number associated with the patient's visit
Patient_nbr	Int64 (Number-whole)	N/a	Patients ID number
Race	String	Assigned each distinct value with a numerical value ? = 0 African American = 10 Asian = 2 Caucasian = 3 Hispanic = 4 Other = 5	<u>Categorical data</u> Ordered based on alphabetical order
Gender	String	Assigned: Unknown/invalid = 0 Female = 1 Male = 2	<u>Categorical data</u>
Age	String	Assigned each group as a numerical Value: 0-10 = 1 10-20 = 2 20-30 = 3 30-40 = 4 40-50 = 5 50-60 = 6 60-70 = 7 70-80 = 8 80-90 = 9 90-100 = 10	<u>Numerical data</u>
Weight	N/a	Removed due to a lot of data being unknown	N/a
Admission_type_id	Int64 (Number-whole)	N/a	<u>Categorical data</u> Refer to dataset IDs_mapping
discharge_disposition_id	Int64 (Number-whole)	N/a	<u>Categorical data</u> Refer to dataset IDs_mapping

admission_source_id	Int64 (Number-whole)	N/a	<u>Categorical data</u> Refer to dataset IDs_mapping
time_in_hospital	Int64 (Number-whole)	N/a	<u>Numerical data</u> Time spent in a hospital in Hours Max: 14 Min: 1
payer_code	N/a	Removed due to lack of prevalence to dataset	<u>Categorical data</u>
medical_specialty	String	<p>Turned specialties into numerical Values based on alphabetical order:</p> <p>? = 0</p> <p>AllergyandImmunology = 1</p> <p>Anesthesiology = 2</p> <p>Anesthesiology-Pediatric = 3</p> <p>Cardiology = 4</p> <p>Cardiology-Pediatric = 5</p> <p>DCPTEAM = 6</p> <p>Dentistry = 7</p> <p>Dermatology = 8</p> <p>Emergency/Trauma = 9</p> <p>Endocrinology/Trauma = 10</p> <p>Endocrinology-Metabolism = 11</p> <p>Family/GeneralPractice = 12</p> <p>Gastroenterology= 13</p> <p>Gynecology = 14</p> <p>Hematology = 15</p> <p>Hematology/Oncology = 16</p> <p>Hospitalist = 17</p> <p>InfectiousDiseases = 18</p> <p>InternalMedicine = 19</p> <p>Nephrology = 20</p> <p>Neurology = 21</p> <p>Neurophysiology =22</p> <p>Obsterics&Gynecology-GynecologicOnco = 23</p> <p>Obstetrics = 24</p> <p>ObstetricsandGynecology = 25</p> <p>Oncology = 26</p> <p>Ophthalmology = 27</p> <p>Orthopedics = 28</p> <p>Orthopedics-Reconstructive = 29</p> <p>Osteopath = 30</p> <p>Otolaryngology = 31</p> <p>OutreachServices = 32</p> <p>Pathology = 33</p> <p>Pediatrics = 34</p>	<u>Categorical data</u> Different departments/specialties that help to differentiate which specialty is having the most readmissions

		Pediatrics-AllergyandImmunology = 35 Pediatrics-CriticalCare = 36 Pediatrics-EmergencyMedicine =37 Pediatrics-Endocrinology = 38 Pediatrics-Hematology-Oncology = 39 Pediatrics-InfectiousDiseases = 40 Pediatrics-Neurology = 41 Pediatrics-Pulmonology = 42 Perintatology = 43 PhysicalMedicineandRehabilitation = 44 PhysicianNotFound = 45 Podiatry =46 Proctology =47 Psychiatry =48 Psychiatry-Addictive = 49 Psychiatry-Child/Adolescent = 50 Psychology = 51 Pulmonology = 52 Radiologist = 53 Radiology = 54 Resident = 55 Rheumatology = 56 Speech = 57 SportsMedicine = 58 Surgeon = 59 Surgery Cardiovascular = 60 Surgery-Cardiovascular = 61 Surgery-Colon&Rectal = 62 Surgery-General = 63 Surgery-Maxillofacial = 64 Surgery-Neruo = 65 Surgery-Pediatric =66 Surgery-Plastic = 67 Surgery-PlasticwithinHeadandNeck = 68 Surgery-Thoracic = 69 Surgery-Vascular = 70 SurgerySpecialty = 71 Urology = 72	
num_lab_procedures	Int64 (Number-whole)	N/a	<u>Numerical data</u> Number of lab procedures done to patient: Blood test, Urine, other substance
num_procedures	Int64 (Number-whole)	N/a	<u>Numerical data</u> Number of Procedures done of a patient: can be surgery

num_medications	Int64 (Number-whole)	N/a	<u>Numerical data</u> Number of medication the patient is taking
number_outpatient	Int64 (Number-whole)	N/a	<u>Numerical data</u>
number_emergency	Int64 (Number-whole)	N/a	<u>Numerical data</u>
number_inpatient	Int64 (Number-whole)	N/a	<u>Numerical data</u>
diag_1	String (Number-decimal)	N/a	<u>Categorical data</u> LOINC code

diag_2	String (Number-decimal)	N/a	<u>Categorical data</u> LOINC code
diag_3	String	N/a	<u>Categorical data</u> LOINC code
number_diagnoses	Int64 (Number-whole)	n/a	<u>Numerical data</u> Number of diagnosis patient has
max_glu_serum	String	Changed values to a numerical format to allow for proper analysis None = 0 Norm = 140 >200 = 200 >300 = 300	<u>Categorical data</u> Units: mg/dL Patients with higher than >200 and >300 both have diabetes. Normal reading would be average levels 140
A1Cresult	String	Changed values to a numerical format to allow for proper analysis None = 0 Norm = 1 >7 = 7 >8 = 8	<u>Categorical data</u> Units: mg/dL One of the most important category since all drugs affects this reading

metformin	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
repaglinide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
nateglinide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
chlorpropamide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
glimepiride	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage

			Steady = medication stayed at same dose Up = Increase in dosage
acetohexamide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
glipizide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
glyburide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
tolbutamide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Steady = 1	<u>Categorical data</u> Medication No = does not take medication Steady = medication stayed at same dose
pioglitazone	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2	<u>Categorical data</u> Medication No = does not take medication Down = decrease in

		Up = 3	dosage Steady = medication stayed at same dose Up = Increase in dosage
rosiglitazone	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
acarbose	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
miglitol	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
troglitazone	String	Changed values to a numerical format to allow for proper analysis: No = 0 Steady = 1	<u>Categorical data</u> Medication No = does not take medication Steady = medication stayed at same dose
tolazamide	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1	<u>Categorical data</u> Medication No = does not take medication

		Steady = 2 Up = 3	Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
--	--	------------------------------------	--

examide	String	Removed column since there is only one distinct value which would not help predict an outcome within an analysis	N/a
citoglipton	String	Removed column since there is only one distinct value which would not help predict an outcome within an analysis	N/a
insulin	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
glyburide-metformin	String	Changed values to a numerical format to allow for proper analysis: No = 0 Down =1 Steady = 2 Up = 3	<u>Categorical data</u> Medication No = does not take medication Down = decrease in dosage Steady = medication stayed at same dose Up = Increase in dosage
glipizide-metformin	String	Changed values to a numerical format to allow for proper analysis: No = 0 Steady = 1	<u>Categorical data</u> Medication No = does not take medication Steady = medication stayed at same dose
glimepiride-pioglitazone	String	Changed values to a numerical format to allow for proper analysis: No = 0 Steady = 1	<u>Categorical data</u> Medication No = does not take medication Steady = medication

			stayed at same dose
metformin-rosiglitazone	String	Changed values to a numerical format to allow for proper analysis: No = 0 Steady = 1	<u>Categorical data</u> Medication No = does not take medication Steady = medication stayed at same dose
metformin-pioglitazone	String	Changed values to a numerical format to allow for proper analysis: No = 0 Steady = 1	<u>Categorical data</u> Medication No = does not take medication Steady = medication stayed at same dose
change	String	Changed values to a numerical format to allow for proper analysis: No = 0 Ch = 1	<u>Categorical data</u> Changes in medication?
diabetesMed	String	Changed values to a numerical format to allow for proper analysis: No = 0 Yes = 1	<u>Categorical data</u> Do they have diabetes medication?
readmitted	String	Changed values to a numerical format to allow for proper analysis: NO = 0 >30 = 1 <30 = 2	<u>Categorical data</u> How long until they readmitted? Before, after 30 days, or not at all