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| **Diabetes Dataset 130-US Hospitals (1999-2008)**  **Overview**: This data has been prepared to analyze factors related to readmission as well as other outcomes pertaining to patients with diabetes. |  |

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| **Data Set Characteristics:** | Multivariate | **Number of Instances:** | 100,000 |
| **Attribute Characteristics:** | Integer | **Number of Attributes:** | 55 |
| **Associated Tasks:** | Classification, Clustering | **Missing Values?** | Yes |

**Source:**

The data are submitted on behalf of the **Center for Clinical and Translational Research**, Virginia Commonwealth University, a recipient of NIH CTSA grant UL1 TR00058 and a recipient of the CERNER data. John Clore (jclore **'@'** vcu.edu), Krzysztof J. Cios (kcios **'@'** vcu.edu), Jon DeShazo (jpdeshazo **'@'** vcu.edu), and Beata Strack (strackb **'@'** vcu.edu). This data is a de-identified abstract of the Health Facts database (Cerner Corporation, Kansas City, MO).

UCI Archive: <http://archive.ics.uci.edu/ml/datasets/Diabetes+130-US+hospitals+for+years+1999-2008>

**Data Description:**

The dataset represents 10 years (1999-2008) of clinical care at 130 US hospitals and integrated delivery networks. It includes over 50 features representing patient and hospital outcomes. Information was extracted from the database for encounters that satisfied the following criteria.

1. It is an inpatient encounter (a hospital admission).
2. It is a diabetic encounter, that is, one during which any kind of diabetes was entered to the system as a diagnosis.
3. The length of stay was at least 1 day and at most 14 days.
4. Laboratory tests were performed during the encounter.
5. Medications were administered during the encounter.

The data contains such attributes as patient number, race, gender, age, admission type, time in hospital, medical specialty of admitting physician, number of lab test performed, HbA1c test result, diagnosis, number of medication, diabetic medications, number of outpatient, inpatient, and emergency visits in the year before the hospitalization, etc.

**Attributes:**

Detailed description of all the attributes is provided in Table 1 Beata Strack, Jonathan P. DeShazo, Chris Gennings, Juan L. Olmo, Sebastian Ventura, Krzysztof J. Cios, and John N. Clore, “Impact of HbA1c Measurement on Hospital Readmission Rates: Analysis of 70,000 Clinical Database Patient Records,” BioMed Research International, vol. 2014, Article ID 781670, 11 pages, 2014.  
  
**Relevant Papers:**

Beata Strack, Jonathan P. DeShazo, Chris Gennings, Juan L. Olmo, Sebastian Ventura, Krzysztof J. Cios, and John N. Clore, “Impact of HbA1c Measurement on Hospital Readmission Rates: Analysis of 70,000 Clinical Database Patient Records,” BioMed Research International, vol. 2014, Article ID 781670, 11 pages, 2014.  
  
**Citation:**

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**Data Dictionary**

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| --- | --- | --- |
| admission\_type\_id | Description | |
| 1 | Emergency | |
| 2 | Urgent |  |
| 3 | Elective |  |
| 4 | Newborn |  |
| 5 | Not Available | |
| 6 | NULL |  |
| 7 | Trauma Center | |
| 8 | Not Mapped | |
|  |  |  |
| discharge\_disposition\_id | Description | |
| 1 | Discharged to home | |
| 2 | Discharged/transferred to another short term hospital | |
| 3 | Discharged/transferred to SNF | |
| 4 | Discharged/transferred to ICF | |
| 5 | Discharged/transferred to another type of inpatient care institution | |
| 6 | Discharged/transferred to home with home health service | |
| 7 | Left AMA |  |
| 8 | Discharged/transferred to home under care of Home IV provider | |
| 9 | Admitted as an inpatient to this hospital | |
| 10 | Neonate discharged to another hospital for neonatal aftercare | |
| 11 | Expired |  |
| 12 | Still patient or expected to return for outpatient services | |
| 13 | Hospice / home | |
| 14 | Hospice / medical facility | |
| 15 | Discharged/transferred within this institution to Medicare approved swing bed | |
| 16 | Discharged/transferred/referred another institution for outpatient services | |
| 17 | Discharged/transferred/referred to this institution for outpatient services | |
| 18 | NULL |  |
| 19 | Expired at home. Medicaid only, hospice. | |
| 20 | Expired in a medical facility. Medicaid only, hospice. | |
| 21 | Expired, place unknown. Medicaid only, hospice. | |
| 22 | Discharged/transferred to another rehab fac including rehab units of a hospital . | |
| 23 | Discharged/transferred to a long term care hospital. | |
| 24 | Discharged/transferred to a nursing facility certified under Medicaid but not certified under Medicare. | |
| 25 | Not Mapped | |
| 26 | Unknown/Invalid | |
| 30 | Discharged/transferred to another Type of Health Care Institution not Defined Elsewhere | |
| 27 | Discharged/transferred to a federal health care facility. | |
| 28 | Discharged/transferred/referred to a psychiatric hospital of psychiatric distinct part unit of a hospital | |
| 29 | Discharged/transferred to a Critical Access Hospital (CAH). | |
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| admission\_source\_id | **Description** | |
| 1 | Physician Referral | |
| 2 | Clinic Referral | |
| 3 | HMO Referral | |
| 4 | Transfer from a hospital | |
| 5 | Transfer from a Skilled Nursing Facility (SNF) | |
| 6 | Transfer from another health care facility | |
| 7 | Emergency Room | |
| 8 | Court/Law Enforcement | |
| 9 | Not Available | |
| 10 | Transfer from critical access hospital | |
| 11 | Normal Delivery | |
| 12 | Premature Delivery | |
| 13 | Sick Baby |  |
| 14 | Extramural Birth | |
| 15 | Not Available | |
| 17 | NULL |  |
| 18 | Transfer From Another Home Health Agency | |
| 19 | Readmission to Same Home Health Agency | |
| 20 | Not Mapped | |
| 21 | Unknown/Invalid | |
| 22 | Transfer from hospital inpt/same fac reslt in a sep claim | |
| 23 | Born inside this hospital | |
| 24 | Born outside this hospital | |
| 25 | Transfer from Ambulatory Surgery Center | |
| 26 | Transfer from Hospice | |