**Capstone Project : 01**

## Introduction:

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

This dataset contains data collected on patients with diabetes from 130 hospitals over a period of 10 years. Different treatments and outcomes have been measured in the data.

**The Objective for analysis :**

Determine which treatments are more effective at treating diabetes.

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).

Citation: 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.

**Problem Statement**

**The hospitals are evaluating efficiency of Insulin based treatment for patients**

**Recommend if solo insulin treatments work well towards the above stated objective**

**For a new patient, given his medical history and characteristics, should we recommend solo insulin or a conjunction of other drugs/ treatment?**

Data Description:

<https://www.hindawi.com/journals/bmri/2014/781670/>