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Project Title: Dialysis Treatment Adequacy across the United States.

Background:

Dialysis is a process for removing waste and excess water from the blood and is used primarily as an artificial replacement for lost kidney function in people with kidney failure either until suitable transplant is made available or in case of acute kidney failure. As a result finding good facility and treatment measures becomes crucial for patients to avoid further complications and/or prolong survival rate. To ensure that proper care is offered nation-wide an annual survey and analysis is necessary. This could help improve the quality of treatment provided at the clinics.

Abstract:

This project involves analyzing patient database across all the facilities in the US and discovering success rate of dialysis treatment. The goal is to study patient characteristics, treatment patterns and patient outcomes for chronic dialysis patients. The research will also include trends of type of dialysis treatment opted by the patients nation-wide, compare the success rates and scores of clinics offering the procedure region-wise and overall scores. By identifying clinics that provide better treatment procedure we can improve the success rate region-wise and prolong the patient's survival rate.

Dataset Links:

1) https://dialysisdata.org/content/dialysis-facility-report-data
2) https://catalog.data.gov/dataset/esrd-qip-dialysis-adequacy-payment-year-2015

Note: I hope to combine both the datasets for better comparison of facilities and treatment offered.