**GROUP PROJECT MID CHECK POINT**

**ADTA 5130**

DR. ANNA GEORGE

**GROUP - 17**

Group Members:

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**INTRODUCTION:**

The OFP – Visits to Physician Office dataset will be used in this project to highlight a few observations that will help understand the profiles for care across the United States and provide insights into different characteristics such as race, age, and gender and how they affect the required support. The goal of this project's research is to help policymakers and other authorities to identify areas and people that have the highest need for medical services. Identifying vulnerable populations with higher healthcare needs should allow for more efficient resource deployment, resulting in improved health outcomes for the community and lower costs.

**OBJECTIVE:**

Trying to sort out if poverty contributes to more frequent physician visits. In the United States, the poverty line is presently $26,500 per household.

H0: Number of physician visits in households ≤ $26,500 income

HA: Number of physician visits in households > $26,500 income

Data set: OFP - Visits to Physician Office

In the data set contains 18 variables. Data set

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Attribute Name** | **Type** | **Description** |
| 1 | ofp | Num | Number of physician office visits |
| 2 | ofnp | Num | Number of nonphysician office visits |
| 3 | opp | Num | Number of physician outpatient visits |
| 4 | opnp | Num | Number of nonphysician outpatient visits |
| 5 | emr | Num | Number of emergency room visits hosp number of hospitalizations |
| 6 | numchron | Num | Number of chronic conditions |
| 7 | adldiff | Num | the person has a condition that limits activities of daily living? |
| 8 | Age | Num | age in years (divided by 10) |
| 9 | Black | Char | is the person african–american? Yes/No |
| 10 | sex | Char | is the person male? |
| 11 | married | Char | is the person married? Yes/No |
| 12 | School | Num | Number of years of education |
| 13 | famnic | Num | family income in $10000 |
| 14 | employed | Char | is the person employed? Yes/No |
| 15 | privins | Char | is the person covered by private health insurance ? Yes/No |
| 16 | medicaid | Char | is the person covered by medicaid ? Yes/No |
| 17 | region | Char | the region (noreast, midwest,west) |
| 18 | hlth | Char | self-perceived health (excellent, poor, other) |

The number of physician visits would be the desired variable in this case. We can evaluate and compare the data set because it compares five different types of patient visits. Because the data has no historical values, comparisons will have to be done across strata of the sample. We should have enough data to complete the appropriate modelling to test the hypothesis with 4406 observations.

**Hypothesis Statements:**

* Is a larger number of visits linked to poor health/outcomes? Is it possible that a higher number of visits is linked to better treatment and thus better health outcomes?
* How reliable is a self-reported health variable?
* Other factors such as age, chronic diseases, and employment status are considered (private insurance being attached to employers in most cases)

**Project Plan:**

The hypothesis/research topic was considered by all three members. To accomplish this project, each member selects one or two research questions. Currently, Manvitha Doma has the first research question, PavanKalyan Hamsa has the second, and Brijesh Rudraraju has the third. Each person focuses on the research issue that has been assigned to them. We intend to add more questions in order to fully explore the data. We will finish our study by 10/09/2021, then discuss all of the intricacies of our research, and then deliver our work as a presentation before the due date.