**Chapter 11 Dataset Codebook**

# Dataset: DIABETICS

These data come from the National Health and Nutrition Examination Survey (NHANES). This dataset contains a random sample of 200 participants who answered “Yes” to DIQ010 (Other than during pregnancy, have you ever been told by a doctor or other health professional that you have diabetes or sugar diabetes), and had non-missing data for medication variables (DIQ050 – Are you taking insulin now?; and DIQ070 – are you now taking diabetic pills to lower your blood sugar?).

Source:

Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS). *National Health and Nutrition Examination Survey*. Hyattsville, MD; 2014. [https://wwwn.cdc.gov/Nchs/Nhanes/Search/nhanes13{\_}14.aspx](https://wwwn.cdc.gov/Nchs/Nhanes/Search/nhanes13%7b_%7d14.aspx).

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| **Variable** | **Values** | **Notes** |
| SEQN | Identifier, numeric | Respondent sequence number |
| Medication\_group | 1=Both medications  2=Insulin only  3=Pills only  4=No medication | Categorization of medication types  Formed from DIQ050 (Are you taking insulin now?) and DIQ070 (Are you now taking diabetic pills to lower your blood sugar?) |
| A1c | Numeric | Created from DIQ280 (What was your last “A one C” level) |

# Dataset: CHOLBMI

These data come from the National Health and Nutrition Examination Survey (NHANES). This dataset contains a random sample of 1000 participants with non-missing cholesterol (LBXTC) and BMI (BMXBMI) variables. BMI was categorized into three levels: average weight, overweight, and obese.

Source:

Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS). *National Health and Nutrition Examination Survey*. Hyattsville, MD; 2014. [https://wwwn.cdc.gov/Nchs/Nhanes/Search/nhanes13{\_}14.aspx](https://wwwn.cdc.gov/Nchs/Nhanes/Search/nhanes13%7b_%7d14.aspx).

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| **Variable** | **Values** | **Notes** |
| SEQN | Identifier, numeric | Respondent sequence number |
| Cholesterol | Numeric | Re-named from LBXTC (Total cholesterol in mg/dL) |
| Bmi\_cat | 1=Average weight or below (BMI < 25)  2=Overweight (BMI < 30)  3=Obese (BMI 30+) | BMI Categories – created from the BMXBMI variable |

# Dataset: COH\_A1C

This dataset contains data from the 261 adult participants from the Center for Outpatient Health study, who had no missing values for A1c and education status.

Source:

Fan JH, Lyons S, Goodman MS, Blanchard MS, Kaphingst KA. Relationship Between Health Literacy and Unintentional and Intentional Medication Nonadherence in Medically Underserved Patients with Type 2 Diabetes. *Diabetes Educ*. 2016;42(2):199-208. doi:10.1177/0145721715624969.

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| **Variable** | **Values** | **Notes** |
| ID | Identifier, numeric | Participant identification number |
| Hba1c | Numeric | Average blood glucose level - A1c measurement |
| Education | 1=Less than high school  2=High school or GED  3=Some college or greater | Created from responses to “What is the highest level of school that you have completed?” (quest\_68). Answer choices were: 1=Elementary school; 2=Junior high or some high school; 3=High school diploma; 4= GED; 5=Some college or Associate degree; 6=College degree; 7=Graduate degree; 8=did not attend school in the US |

# Dataset: Fertility rate table / BIRTHDEATH\_BYREGION

This dataset comes from the 2014 Births data and the 2014 Deaths National Vital Statistics Reports. The data are reported on the state level and were aggregated to the region level.

Sources:

Hamilton BE, Martin JA, Osterman MJK, Curtin SC, Mathews TJ. Births: Final Data for 2014. Natl Vital Stat Reports2. 15AD;64(12). http://www.cdc.gov/nchs/data/nvsr/nvsr64/nvsr64\_12.pdf.

Kochanek K, Murphy SL, Xu J, Tejada-Vera B. Deaths: Final Data for 2014. Natl Vital Stat Reports2. 2014;65(4). http://www.cdc.gov/nchs/data/nvsr/nvsr65/nvsr65\_04.pdf.

Centers for Disease Control and Prevention. State and Territorial Data. FastStats. [http://www.cdc.gov/nchs/fastats/state-and-territorial-data.htm. Published 2014](http://www.cdc.gov/nchs/fastats/state-and-territorial-data.htm.%20Published%202014).

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| **Variable** | **Values** | **Notes** |
| State | Identifier, character | State name |
| Region | Identifier, character | Region name |
| Fertilityrate | Numeric | Estimated number of births over a woman’s lifetime, per 1,000 women. |
| Deaths | Numeric | Estimated number of resident deaths |

# Dataset: ANOVA\_PA\_HTN

This dataset is a random sample of 2000 adults (older than 17 but younger than 65) that participated in the NHANES, with non-missing values for blood pressure and sedentary activity.

Source:

Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS). *National Health and Nutrition Examination Survey*. Hyattsville, MD; 2014. [https://wwwn.cdc.gov/Nchs/Nhanes/Search/nhanes13{\_}14.aspx](https://wwwn.cdc.gov/Nchs/Nhanes/Search/nhanes13%7b_%7d14.aspx).

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| **Variable** | **Values** | **Notes** |
| SEQN | Identifier, numeric | Respondent sequence number |
| Sedentary | Numeric | Re-named from PAD680, minutes of sedentary activity. Response to “How much time (not including sleep) do you usually spend sitting on a typical day?” |
| Bloodpressure | 0 = Never told had high blood pressure  1 = Told once that had high blood pressure  2 = Told at least twice had high blood pressure | Combination of BPQ020 (“Have you ever been told by a doctor or other professional that you had high blood pressure?”) and BPQ030 (“Were you told on 2 or more different visits that you had high blood pressure?”) |