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UNM-OCH Diabetes Project Data Set

Janet Page-Reeves

University of New Mexico, Family & Community Medicine, jpage-reeves@salud.unm.edu

Lidia Regino

University of New Mexico Health Sciences Center, Albuquerque, USA

Erik B. Erhardt

University of New Mexico Health Sciences Center, Albuquerque, USA

Cristina Murray-Krezan

Department of Internal Medicine, Division of Epidemiology, Biostatistics, and Preventive Medicine, University of New Mexico Health Sciences Center, Albuquerque, New Mexico, USA

Blanca Pedigo

See next page for additional authors

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Janet Page-Reeves, Lidia Regino, Erik B. Erhardt, Cristina Murray-Krezan, Blanca Pedigo, Maria Tellez, Mark R. Burge, Shiraz I. Mishra, Elaine Bearer, Molly J. Bleecker, Denise Guerrero, and Daniel P. Rodrigue					

UNM PCORI Diabetes Project (PDP) Data Introduction

Project information, data access, data formatting, codebooks

Erik Erhardt

2022-12-25 11:10:29

Contents

1 Project information			
2 Data files and codebooks		2	
3	3.1 Overview of formatting the data for analysis	2 4	
P	ublications (incomplete)	4	
1	Project information		
	 Overview Principal Investigator: Janet Page-Reeves, MA, PhD Organization: University of New Mexico Health Sciences Center Project Budget: \$2,276,443 Funding agency: Patient-Centered Outcomes Research Institute (PCORI) Study descriptions PCORI ClinicalTrials.gov Study Design Study Type: Observational Estimated Enrollment: 240 participants Observational Model: Cohort Time Perspective: Prospective Official Title: A Patient-Centered Framework to Test the Comparative Effectiveness of Culturall and Contextually Appropriate Program Options for Latinos With Diabetes From Low-Incom Households Actual Study Start Date: February 1, 2017 Estimated Primary Completion Date: March 30, 2021 Estimated Study Completion Date: March 30, 2021 Actual dates: * Start September 13, 2016 (first pre-screening) * End August 15, 2020 (last follow-up collection) UNM HSC IRB 16-303 		

2 Data files and codebooks

- Data introduction (this file)
 - data_introduction.html or data_introduction.pdf
- Codebooks
 - REDCap codebook: codebook_REDCap_pdp.pdf
 - * REDCap codebook includes the data collection questions and conditional logic.
 - Data-summary codebook: codebook_dat_pdp_PUBLIC.pdf
 - * Data codebook summarizes the data for each question.
 - · Number of observations.
 - · Number of variables.
 - · Summary of each variable's label, variable name, data class, number of unique values, and percent missing.
 - · For each variable, a more detailed summary:
 - · Numeric variables: number of unique levels, five-number summary, and histogram.
 - · Factor variables: number of unique levels, list of observed levels, and barplot.
- Data formats
 - CSV files factor variables values are labels (not levels).
 - RData files are R formatted data includeing factor labels and variable labels.
- PDP Data
 - Step 3
 - Includes all data for analysis
 - CSV file: dat_pdp_clean_PUBLIC.csv
 - * Load with dat_pdp <- read.csv(file = "dat_pdp_clean_PUBLIC.RData")
 - RData file: dat_pdp_clean_PUBLIC.RData
 - * Load with load(file = "dat_pdp_clean_PUBLIC.RData")
- Eligibility Data (probably not useful)
 - Step 2
 - CSV file: dat Elig clean PUBLIC.csv
 - * Load with dat_Elig <- read.csv(file = "dat_Elig_clean_PUBLIC.RData")
 - RData file: dat_Elig_clean_PUBLIC.RData
 - * Load with load(file = "dat_Elig_clean_PUBLIC.RData")
- Pre-Screening Data (probably not useful)
 - Step 1
 - CSV file: dat_PreScr_clean_PUBLIC.csv
 - * Load with dat_PreScr <- read.csv(file = "dat_PreScr_clean_PUBLIC.RData")
 - RData file: dat_PreScr_clean_PUBLIC.RData
 - * Load with load(file = "dat_PreScr_clean_PUBLIC.RData")

3 Data

3.1 Overview of formatting the data for analysis

- 1. Read and format data
 - 1. Read current files
 - 2. Replace unicode to appropriate ascii characters
 - 3. Split Spanish / English options and keep English (code also allows to keep only Spanish)
 - 4. Save data
- 2. Data cleaning checks of numeric and categorical variables for data cleaning
 - 1. Numeric: Print non-numeric as well as min and max 5 values for each variable; plot histogram.
- 3. Longitudinal plots showed differences from the first observation to show unusual differences from baseline
 - 1. Some BMI ususual variance was corrected due to recording errors
- 4. Additional formatting
 - 1. Pre-screening survey

- 1. Converting 3 date/time variables to POSIXct format.
- 2. Eligibility survey
 - 1. Converting 4 date/time variables to POSIXct format.
 - 2. Removing special characters from income dollar formats (\$ and ,).
- 3. PDP surveys
 - 1. Exclude any "database development" no participant records
 - 2. Converting 9 date/time variables to POSIXct format.
 - 3. Separate participant ID from participant/social support label.
 - 4. Calculate new variables.
 - 1. Age from interview date and DOB
 - 2. Height median over time to exclude unusual values
 - 3. BMI from average of two height and average of two weight measurements at each time
 - 4. A1c numeric, any values with label greater than 14.0 are assigned 14.1
 - 5. Collapse categories for variables with too many levels.
 - 1. Education from 14 to 6 categories.
 - 2. Marital status 6 to 2 categories.
 - 3. Language: how well speak English 5 to 3 categories.
 - 4. General health 5 to 4 categories.
 - 5. Household number, 12 to 6 categories.
 - 6. Patient to SS relationship, 6 to 5 categories.
 - 7. Binary Sex variable (Other to Male given bio of person).
 - 6. Zip code a factor variable.
 - 7. Determining language from combination of questions: Spanish, English, Other.
 - 8. Copy baseline responses to followup records for selected demographic variables.
- 5. Dates: Print non-numeric as well as min and max 5 values for each date; plot histogram.
- 6. Data Validation for every variable, range and admissible value checks, including conditional relationships between variables. Visualization of errors. All errors reviewed by data quality team.
- 7. Comorbidities are cleaned, categorized, and counted.
- 8. Annual Income is calculated from typical income dollar amount and income frequency, followed by a data cleaning check.
- 9. A numeric household number is determined, used later for poverty ratio determination.
- 10. Time since diagnosis in years is calculated as the difference from baseline date and the estimated diagnosis date.
- 11. All five possible "missing" categories for factor variables are set to NA.
- 12. A1c
 - 1. If both One Hope and UNM CDE measurements, then use UNM CDE.
 - 2. A1c categories assigned based on A1c: Neither, Pre-diabetes, or Diabetes
 - 3. Calculate A1c days before baseline, if reporting a value not drawn as part of study.
- 13. Smoking years as numeric.
- 14. Survey instruments
 - 1. Depression: PHQ-9 score categories and log2 score.
 - 2. Diabetes Knowledge Questionnaire DKQ-23: scoring did not include Question 2 about "effective insulin" or the added Question 25 about drinking sodas.
 - 3. Patient Activation Measure PAM-10: scoring via query to insigniahealth.com.
 - 4. CAHPS scoring: CAHPS instructions indicate that the researcher can design their own composite measures.
 - 1. For each question, we assigned values from -1 through +1 to the "negative" through "positive" ordinal responses.
 - 2. We decided to follow the survey's five domains of cultural competence organized from 8 domains.
 - 3. Our questions allowed us to create the following scales:
 - 1. A&B. Doctor Communication-Behaviors (8 patient and 1 social support questions)
 - 2. F. Equitable treatment (3 patient and 2 social support questions)
 - 3. G. Trust (6 patient and 1 social support questions)

- 4. H. Access to Interpreter Services (5 patient and 1 social support questions)
- 4. Because not all questions were answered by all participants, each score is the ratio of the sum of their responses divided by the number of questions answered in each domain for each participant-social support pair.
 - 1. Scores are bounded between -1 and +1 with the interpretations of "negative" and "positive", with 0 indicating "neutral".
- 15. Federal Poverty level ratio: This ratio is the patient's annual income divided by the poverty level based on each patient's household size, cf. "Annual Update of the HHS Poverty Guidelines, A Notice by the Health and Human Services Department" on 01/25/2016, Document Citation: 81 FR 4036, Page: 4036-4037 (2 pages), Document Number: 2016-01450, https://www.federalregister.gov/d/2016-01450.
 - 1. A 1 means thier estimated annual income is equal to the poverty level for their family's size, 2.5 means they make 2.5 times the poverty level.

3.2 Data de-identification

- 1. Data is de-identified for publication following the De-identification Standard via HIPAA Privacy Rule Section 164.514(a).
 - 1. Remove identifying columns.
 - 2. Zip codes truncated to use only the first 3 digits of zip codes, and no restricted ZIP code tabulation areas (ZCTAs) were in our data (otherwise, they would be set to "000").
 - 3. Calculate durations in days between all dates relative to the date of the Patient Baseline assessment.

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