**Dataset:** AtlasPlus Congenital Syphilis Incidence, 2015 (NCHHSTP)

**R Variable Name:** RATE

**Description:** Rates of incidence of congenital syphilis at the county level for Louisiana in 2015. Collected as part of surveillance STD diagnoses data. The rate of incidence for each county is compiled based upon the state and city of residence of the mothers.

**Data type/format:** Numeric, max character length 5

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Rate of Incidence | Ranges from 0 to 775.20 births of babies with congenital syphilis per 100,000 births | 64 | 100% |
| NA | Rate of incidence not reported for given county | 0 | 0% |

**Dataset:** AtlasPlus Conegnital Syphilis Incidence, 2015 (NCHHSTP)

**R Variable Name:** RANK\_INCIDENCE

**Description:** Created numerical rank variable based on rates of incidence of congenital syphilis (see “RATE”). Ranks the incidence rates from 1 to 64, where 64 indicates highest incidence rate. Used only in the Spearman correlation test between the County Health Rankings (see “RANK\_HEALTHOUT”).

Default tie method of averaging rank is employed for matching incidence rates (such as the 46 counties with zero incidence). This means that any counties with tied incidence rates will share the same rank: the average of the spots in the rankings that their rates take up.

Example: of 3 counties, the two with the highest rate have the same incidence rate. The ranking for those two counties would be 2.5, and the other county would be 1.

**Data type/format:** Numerical (Rank), max character length 4

**Values and frequencies:** Ranks range from 23.5 to 64. 46 counties possess zero incidence rates, so there are 46 counties (71.875%) with a ranking of 23.5. There is another tie of two counties (3.125%), where both have ranks of 57.5. Otherwise, ranks between 47 and 64 are all assigned to individual counties (1.5625% each). No ranks are missing (0%).

**Dataset:** AtlasPlus Congenital Syphilis Incidence, 2015 (NCHHSTP)

**R Variable Name:** LEVEL\_INCIDENCE

**Description:** Created categorical variable based on rates of incidence of congenital syphilis (see “RATE”). Organizes incidence into one of four levels: Zero, Low, Medium, and High.

**Data type/format:** Categorical, max character length 6

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Interval of Included Rates\*\*** | **Frequency (Unweighted)** | **Percent** |
| Zero | 0 ≤ Rate ≤ 0.1\* | 46 | 71.875% |
| Low | 0.1 < Rate ≤ 45.45 | 5 | 7.8125% |
| Medium | 45.45 < Rate ≤ 265.80 | 8 | 12.5% |
| High | 265.80 < Rate ≤ 800 | 5 | 7.8125% |
| Missing/NA | Missing due to NA data in RATE | 0 | 0% |

**\*** Zero incidence level includes non-zero incidences less than or equal to 0.1 since breaks are required to be unique. No counties recorded as Zero level possessed incidences other than zero.

**\*\***45.45 and 265.80 are respectively the first and third quartiles of non-zero incidence rates (see “RATE\_NONZERO”).

**Dataset:** AtlasPlus Congenital Syphilis Incidence, 2015 (NCHHSTP)

**R Variable Name:** RATE\_NONZERO

**Description:** Identified and isolated non-zero rates of incidence of congenital syphilis from Louisiana counties in 2015. This was done to evaluate appropriate breaks for levels of categorical incidence variable (see “LEVEL\_INCIDENCE”). Used solely for the summary of quartiles to create proper statistical breaks for incidence levels.

**Data type/format:** Numerical, vector length 18

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Non-Zero Incidence Rate | Ranges from 28.6 to 775.2 births of babies with congenital syphilis per every 100,000 births | 18 | 28.125% |
| NA\* | Incidence rates equal to 0.0 | 46 | 71.875% |

\*NA does not indicate missing here. The incidence rates are known (see “RATE”) but are not applicable to be included in this variable.

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** RANK\_HEALTHOUT

**Description:** “Health Outcome Rankings” for each Louisiana county in 2015. The County Health Rankings program is a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute. Overall county rankings are a combination of the specific health outcome and health factor measures, such as unemployment, smoking, income inequality, and teen births. Measures are collected from the National Vital Statistics System, the Behavioral Risk Factor Surveillance System, and the Dartmouth Institute. Measures from the NVSS and BRFSS are calculated by staff at the National Center for Health Statistics and the CDC.

“Health Outcome Rankings” address the current health of a county. As can be seen in the downloadable data files for each state, the county rankings are calculated by ranking the z-scores of each specific measure and combining the specific ranks to figure out the overall ranking of each county. It is important to note that the respective rank of one county is dependent on the rank and health measures of the other counties in the corresponding state.

See more about the County Health Rankings here: <http://www.countyhealthrankings.org/explore-health-rankings/use-data/exploring-data>.

FAQ here: <http://www.countyhealthrankings.org/explore-health-rankings/faq-page>

**Data type/format:** Numerical (Rank), max character length 2

**Values and frequencies:** Ranks range from 1-64, with 1 being the healthiest overall and 64 being the least healthy overall. No ranks are missing (0%).

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** COUNTY

**Description:** Counties of the state of Louisiana, which are technically delineated as parishes. A parish is defined as a territorial division within Louisiana, identical to counties in other states.

**Data type/format:** Categorical (ID), max character length 20

**Values and frequencies:** Louisiana has 64 counties total. A complete list can be found at <http://www.alphalists.com/list/alphabetical-list-louisiana-counties-parishes> or many other sites. No counties are excluded or missing (0%).

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** POP\_COUNTY

**Description:** Estimated total populations for Louisiana counties. Compiled from the Census Bureau’s Population Estimates Program (PEP), which uses current data of births, deaths, and migration to calculate population change and produce population estimates.

**Data type/format:** Numeric, max character length 6

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Population | Estimates range from 4908 to 445227 | 64 | 100% |
| NA | Population not reported for given county | 0 | 0% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** RATIO\_PCP

**Description:** Ratio of county population to total primary care physicians for each county. Primary care physicians include non-federal practicing physicians under age 75 specializing in general practice medicine, family medicine, internal medicine, and pediatrics. Compiled from 2012 data from the Area Health Resource File and the American Medical Association.

**Data type/format:** Character\*, max character length 7

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Ratio | Ranges from 956:1 to 11513:1, written as character vector elements | 62 | 96.875% |
| NA | Ratio not reported for given county | 2 | 3.125% |

\*R recognizes ratios inputted this way as a character vector. See “RATIO\_PCP\_NUM” for numeric data type.

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** RATIO\_OTHERPCP

**Description:** Ratio of county population to number of other primary care providers, including nurse practitioners, physician assistants, and clinical nurse specialists. Compiled from 2014 data from CMS National Provider Identification.

**Data type/format:** Character\*, max character length 6

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Ratio | Ranges from 935:1 to 9042:1, written as character vector elements | 64 | 100% |
| NA | Ratio not reported for given county | 0 | 0% |

\*R recognizes ratios inputted this way as a character vector. See “RATIO\_OTHERPCP\_NUM” for numeric data type.

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** RATIO\_PCP\_NUM

**Description:** Total number of county population respective to every 1 primary care physician. This is described as a “ratio number” later in the data dictionary, hence the inclusion of ‘NUM’ in the variable name. Created from RATIO\_PCP character elements by using the string split function in R and converting values to numeric.

**Data type/format:** Numeric, max character length 5

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Ratio Number for Physician PCPs | Total population respective to each primary care physician. Ranges from 956 to 11513 | 62 | 96.875% |
| NA | Not available for given county due to missing data in RATIO\_PCP | 2 | 3.125% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** RATIO\_OTHERPCP\_NUM

**Description:** Total number of county population respective to every 1 primary care provider including nurse practitioners, physician assistants, and clinical nurse specialists. This is described as a “ratio number” later in the data dictionary, hence the inclusion of ‘NUM’ in the variable name. Created from RATIO\_OTHERPCP character elements by using the string split function in R and converting values to numeric.

**Data type/format:** Numeric, max character length 4

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Ratio Number for Non-Physician PCPs | Total population respective to each primary care provider (non-physician). Ranges from 935 to 9042 | 64 | 100% |
| NA | Not available for given county due to missing data | 0 | 0% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** NUMBER\_PCP

**Description:** Number of primary care physicians in each county. Calculated by dividing the total county population (POP\_COUNTY) by the ratio number for PCPs (RATIO\_PCP\_NUM).

**Data type/format:** Numeric, max character length 17

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Number of Physician PCPs | Ranges from 0.99 to 389.5 | 62 | 96.875% |
| NA | Not available for given county due to missing data in RATIO\_PCP | 2 | 3.125% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** NUMBER\_OTHERPCP

**Description:** Number of non-physician primary care providers in each county. Calculated by dividing the total county population (POP\_COUNTY) by the ratio number for other PCPs (RATIO\_OTHERPCP\_NUM).

**Data type/format:** Numeric, max character length 16

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Number of Non-Physician PCPs | Ranges from 1 to 401.1 | 64 | 100% |
| NA | Not available for given county due to missing data | 0 | 0% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** RATIO\_PCPCOMBINED

**Description:** Combined ratio of population to total primary care providers, including physicians, nurse practitioners, physician assistants, and clinical nurse specialists. This indicates the number of people in the county (population) per every 1 primary care provider. Calculated by dividing the county population (see “POP\_COUNTY”) by the respective ratio number (see “RATIO\_PCP\_NUM”, “RATIO\_OTHERPCP\_NUM”) to calculate the number of providers in each categorization. The two numbers of providers (see “NUMBER\_PCP”, “NUMBER\_OTHER”) were added to a sum of providers for each county. The combined ratio, standardized to 1, was calculated by dividing the county population by this total number of providers in each county.

Ex: Ratio1 = 10:1, Ratio2 = 3:1.

Ratio 1 number = 10, Ratio 2 number = 3

For a population of 60, there are 60/10=6 providers relating to Ratio 1 and 60/3=20 providers relating to Ratio 2.

Sum of providers would be 20+6=26.

Combined Ratio = 60:26 🡪 2.3077:1

**Data type/format:** Numeric, max character length 16

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Combined Ratio | Ranges from 473.2023 to 4408.917 people in given county per every 1 primary care provider | 62 | 96.875% |
| NA | Not available for given county due to missing data in RATIO\_PCP | 2 | 3.125% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** LEVEL\_PCPCOMBINED

**Description:** Categorical variable delineating thirds of county population per every 1 primary care provider (see “RATIO\_PCPCOMBINED”). Organizes healthcare provider inundation into one of three levels: Low, Medium, and High.

**Data type/format:** Categorical, max character length 6

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Interval of Included Population Numbers** | **Frequency (Unweighted)** | **Percent** |
| Low | 473.2023 ≤ Population ≤ 995.2856 | 21 | 32.8125% |
| Medium | 995.2856 < Population ≤ 1655.7487 | 20 | 31.25% |
| High | 1655.7487 < Population ≤ 4408.9167 | 21 | 32.8125% |
| NA | Not available for given county due to missing data in RATIO\_PCP | 2 | 3.125% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** PCT\_UNINSURED

**Description:** Percentage of population between ages 18 and 64 (adults under 65) that has no health insurance coverage in a given county. Compiled from 2012 data from the Small Area Health Insurance Estimates program of the US Census Bureau.

**Data type/format:** Numeric, max character length 7

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Percentage of Uninsured Adults | Ranges from 19.1991% to 31.0591% | 64 | 100% |
| NA | Percentage estimate not available for given county | 0 | 0% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** LEVEL\_UNINSURED

**Description:** Categorical variable delineating thirds of estimated percentage of uninsured adults (see “PCT\_UNINSURED”). Organizes percentages into one of three levels: Low, Medium, and High.

**Data type/format:** Categorical, max character length 6

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Interval of Included Percentages** | **Frequency (Unweighted)** | **Percent** |
| Low | 19.1991≤ Percent≤ 24.8020% | 22 | 34.375% |
| Medium | 24.8020<Percent≤ 26.6717% | 21 | 32.8125% |
| High | 26.6717<Percent≤ 31.0591% | 21 | 32.8125% |
| NA | Not available for given county due to missing PCT\_UNINSURED | 0 | 0% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** PCT\_CNSDDTC

**Description:** Percentage of population who reported being unable to see a doctor because of cost in the past year. Compiled using data from 2006 to 2012 from the Behavioral Risk Factor Surveillance System. Participants responded to the question, “Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?”

**Data type/format:** Numeric, max character length 4

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Description** | **Frequency (Unweighted)** | **Percent** |
| Percentage of Uninsured Adults | Ranges from 11.1% to 33.6% | 62 | 96.875% |
| NA | Percentage not available for given county | 2 | 3.125% |

**Dataset:** County Health Rankings for Louisiana, 2015 (countyhealthrankings.org)

**R Variable Name:** LEVEL\_CNSDDTC

**Description:** Categorical variable delineating thirds of percentage of adults who reported not being able to see a doctor in the past year due to cost (see “PCT\_CNSDDTC”). Organizes percentages into one of three levels: Low, Medium, and High.

**Data type/format:** Categorical, max character length 6

**Values and frequencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Interval of Included Percentages** | **Frequency (Unweighted)** | **Percent** |
| Low | 11.1≤ Percent≤ 16.6% | 22 | 34.375% |
| Medium | 16.6<Percent≤ 20.06667% | 19 | 29.6875% |
| High | 20.06667<Percent≤ 33.6% | 21 | 32.8125% |
| NA | Not available for given county due to missing PCT\_CNSDDTC | 2 | 3.125% |