Supplementary Materials for

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This file includes

Guidance on How to Use the Enclosed Supplementary Materials for Replication

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This study used data linking multiple national datasets at the county level for counties in 50 States and DC from 2009 to 2018. The data had been constructed by a larger project funded by the Centers for Disease Control and Prevention (CDC), K01CE003229.

The purpose of this document is to provide guidance on how to use the enclosed supplementary materials (the SAS programs and the R script) to replicate this study’s data and analysis results.

The child maltreatment report data are available to eligible researchers with no cost. All other data are open to the public with no cost. Table S1 lists the datasets, their sources (locations), and the SAS programs for importing, managing, and merging the datasets.

**Table S1.** SAS Programs, Raw Datasets, and Sources to Construct the Present Study’s Data.

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| --- | --- | --- |
| SAS Program | Dataset | Source |
| 01 CAN\_Input.sas | Child maltreatment report data | <https://www.ndacan.acf.hhs.gov/> |
| 02 Census\_Input.sas | Census ACS data | <https://www.socialexplorer.com/explore-tables> |
| 03 BIRTH\_Input.sas | Birth outcome data | <https://wonder.cdc.gov/> |
| 04 Opioid\_Input.sas | Opioid prescription rate data | <https://www.cdc.gov/drugoverdose/rxrate-maps/> |
| 05 NCHS\_RUC\_Input.sas | NCHS rural-urban codes | <https://www.cdc.gov/nchs/data_access/urban_rural.htm> |
| 06 USDA\_RUC\_Input.sas | USDA rural-urban codes | <https://www.ers.usda.gov/data-products/rural-urban-continuum-codes.aspx> |
| 07 Spatial\_Input.sas | Census gazetteer files | <https://www.census.gov/geographies/reference-files/time-series/geo/gazetteer-files.html> |
| 08 CHR\_Input.sas | County Health Rankings data | <https://www.countyhealthrankings.org/> |
| 09 Food\_Input.sas | Food insecurity data | <https://map.feedingamerica.org/> |
| 10 MHV\_Input.sas | MIECHV data | <https://mchb.hrsa.gov/programs-impact/programs/home-visiting/state-fact-sheets> |
| 11 NHV\_Input.sas | NHVRC data | <https://nhvrc.org/yearbook/2020-yearbook/> |
| 12 Grand\_Merge.sas | This program merges all datasets and constructs analysis data. | |

After obtaining the raw datasets, running all enclosed SAS programs from “01 CAN\_Input.sas” to “12 Grand\_Merge.sas” will produce the analysis data (“CDCK01County.sas7bdat”). The “Dataset Contents.htm” reports the summary information about the contents of the analysis data, including the variables’ names and descriptions.

After constructing the analysis data, one can use the enclosed R script (“Analysis\_County\_MH\_PH\_CMR.R”) to replicate this study’s analysis results.

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