# Codebooks - Replication Atwood (2022)

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## 1  Codebook dataset 1: inc_ES (event study)

| Variable | Description |
|---|---|
| **Outcome variables** | |
| Measles | Measles incidence rate per 100,000 individuals (from 0 to 5,904.58). |
| **Treatment variables** | |
| avg_12yr_measles_rate | Numeric variables for the 12-year average measles rate per U.S. state. |
| exp | Numeric variable for the number of years of exposure to measles vaccine (from 0 to 16 years = life-time exposure). |
| _Texp_i | Series of indicator variables for yearly exposure to the measles vaccine (i takes the values: 1-18 years). |
| **Controls** | |
| population | Numeric variable of U.S. state population under 18 (i.e. children) (from 503,000 to 6,727,000). |
| total_population | Numeric variable of total U.S. state population (from 156,000 to 19,200,000). |
| UNDER_5 | Numeric variables of the number of individuals under 5 (i.e. children). (from 20,000 to 1,929,000). |
| AGE5_17 | Individuals aged 5 to 17 (i.e. children). (from 36,000 to 4,927,000). |
| bpl_region4 & bpl_region9 | Interaction variable of U.S. state birthplace and region. |
| _Istatefip_i | Series of dummy variables of all U.S. states, using their U.S. State Federal Information Processing Standard (FIPS) code (from 2 to 56, e.g. 2 = Alaska, 56 = Wyoming). |
| **Other variables** | |
| year | Years from 1952 to 1975 for the time period of interest. |
| state | String identifier variable of U.S. state (2-letter abbreviation, alphabetically from AK to WY). |
| statefip | Numeric identifier of U.S. states. FIPS code from 1 to 56 (e.g. 1 = Alabama). |

# 2 Codebook dataset 2: main_dataset_acs_200017 (main results)

| Variable | Description |
|---|---|
| **Outcome variables** | |
| cpi_incwage | Numeric variable for Consumer-Price-Index-adjusted reported income wage in USD of each individual. |
| ln_cpi_income | Numeric variable for natural logarithm of reported income in USD of each individual. |
| poverty100 | Indicator variable for an individual living at or below the federal poverty line. |
| hrs_worked | Numeric variable of number of hours an individual worked per week (from 0 to 99). |
| cpi_incwage_no0 | Numeric variable for Consumer Price Index-adjusted reported value of individuals' income being higher than 0 (i.e. if USD income lower than 0 USD). |
| employed | Indicator variable for individual being employed = 1 or not = 0. |
| **Treatment variables** | |
| exposure | Numeric variable of number of years of exposure to vaccine (from 1 to 16). |
| M12_exp_rate | Numeric variable for the interaction of 12 years pre-vaccination (from 1952 to 1963) incidence rate and exposure to the measles vaccine from 1 to 16 years. |
| unweight_avg_12_measles_rate | Numeric variable of unweighted 12 years average measles rate (outcome mean for the pre-vaccine introduction cohorts). |
| **Control variables** | |
| black | Indicator variable of individual being black = 1 or not =0. |
| female | Indicator variable of individual being female = 1 or male = 0. |
| bpl_black | Interaction variable of birthplace and being black (from 0 to 56). |
| bpl_female | Interaction variable of U.S. state birthplace and being female (from 0 to 56). |
| bpl_black_female | Numeric interaction variable of U.S. state birthplace, being black, and being being female (from 0 to 56). |
| ageblackfemale | Numeric interaction variable of age (being between 25 and 60), being black, and being female (from 1 to 136). |
| **Other variables** | |
| bpl | Numeric identifier variable of birthplace from 1 to 56. |
| statefip | Numeric identifier of U.S. states. FIPS code from 1 to 56. |
| year | Numeric variable of census year from (2000 to 2017). |
| multyear | Numeric variable of actual survey year ACS/PRCS (from 2005-2017). |
| serial | Numeric identifier, household serial number. |
| region | Numeric variables of census region and division (11 = New England Division, 12 = Middle Atlantic Division, 21 = East North Central Division, 22 = West North Central Division, 31 = South Atlantic Division, 32 = East South Central Division, 33 = West South Central Division, 41 = Mountain Division, 42 = Pacific Division). |
| hhwt | Numeric variables of household weight (from 1 to 3,840). |
| pernum | Numeric variable of person number in sample unit (from 1 to 20). |
| perwt | Numeric variable of individual's weight in the sample. |
| birthyr | Numeric variable, of the birth year of an individual. |
| bplcohort | Interaction variable of U.S. state birthplace and cohort (from 1 to 2600). |

# 3 Codebook Dataset 3: placebo_dataset_acs196070 (robustness check)

| Variable | Description |
|---|---|
| **Outcome variables** | |
| labforcepart | Indicator variable for individual participation in the labor force. |
| edu_years2 | Number of years of schooling (from 0 to 17). |
| employed | Indicator variable for individual being employed = 1 or not = 0. |
| **Treatment variables** | |
| M_post_rate_scale | Numeric interaction variable of measles exposure before vaccine introduction in 1952-63 and post-vaccine introduction. |
| unweight_avg_12_measles_rate | Numeric variable of unweighted 12 years average measles rate (outcome mean for the pre-vaccine introduction cohorts). |
| **Control variables** | |
| age | Numeric variable for individuals between 25 and 60 years old only. |
| race | Categoric variable for being "White" or "Black". |
| blackfemale | Indicator variable for individual being black and female (interaction term). |
| femalepost | Indicator variable for individual being female and post-vaccine introduction (interaction term). |
| blackpost | Indicator variable for individual being black and post-vaccine introduction (interaction term). |
| blackfemalepost | Indicator variable for individual being black, female and post-vaccine introduction (interaction term). |
| rural | Indicator variable for individual living in rural area. |
| ruralpost | Interaction of indicator variable for individual living in rural area and post-vaccine introduction. |
| famincome | Numeric variable for family income (from 0 to 5,000). |
| famincome2 | Numeric variable for family income squared. |
| famincome3 | Numeric variable for family income cubed. |
| **Other variables** | |
| year | Numeric variable of census year (from 1960 to 1970). |
| region | Numeric variables of census region and division (11 = New England Division, 12 = Middle Atlantic Division, 21 = East North Central Division, 22 = West North Central Division, 31 = South Atlantic Division, 32 = East South Central Division, 33 = West South Central Division, 41 = Mountain Division, 42 = Pacific Division). |
| serial | Numeric variable of household serial number (from 1 to 744,423). |
| hhwt | Numeric variable of household weight (99 or 100). |
| pernum | Numeric variable of person number in sample unit (from 1 to 20). |