Syphilis model: Input files for R

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| File name | Use | Description | Data source | Original file |
| age\_nsfg.txt | Model fitting | Proportion of sexual contacts occurring between individuals of the same age group | NSFG | ~/Data/NSFG\_estimates.xlsx |
| case\_subpop\_rr\_LA.txt  case\_subpop\_rr\_MA.txt | Model fitting | Relative risks of reported cases by race/ethnicity, by age and sex | Calculated using subpop\_diag.txt and diag\_age\_sex\_rate.txt | ~/Data/LA\_syph\_data.xlsx  ~/Data/MA\_syph\_data.xlsx |
| diag\_age\_sex\_rate\_LA.txt  diag\_age\_sex\_rate\_MA.txt | Model fitting | Reported early syphilis cases by age and sex | Louisiana and Massachusetts Departments of Public Health | ~/Data/LA\_syph\_data.xlsx  ~/Data/MA\_syph\_data.xlsx |
| msm\_hiv\_proportions\_LA.txt  msm\_hiv\_proportions\_MA.txt | Model fitting | Proportion of reported male cases occurring in MSM | Louisiana and Massachusetts Departments of Public Health | ~/Data/LA\_syph\_data.xlsx  ~/Data/MA\_syph\_data.xlsx |
| p\_early\_LA.txt  p\_early\_MA.txt | Model fitting | Proportion of all syphilis cases (including late latent) that are early (primary, secondary, or early latent) | CDC 2015 STD Surveillance Report (includes all cases, not age-restricted) | ~/Data/state\_early\_v\_late\_syph.xlsx |
| priors.txt | Model parameterization | Prior distributions for parameters estimated by model calibration | Literature review and assumption/expert opinion | ~/Data/parameters.xlsx |
| stage\_diag\_LA.txt  stage\_diag\_MA.txt | Model fitting | Proportion of reported early syphilis cases diagnosed in secondary or early latent stages | Louisiana and Massachusetts Departments of Public Health | ~/Data/LA\_syph\_data.xlsx  ~/Data/MA\_syph\_data.xlsx |
| subpop\_diag\_LA.txt  subpop\_diag\_MA.txt | Model fitting | Reported case rate by sex, age, and race/ethnicity (used to calculate subpopulation RR, which is used as a calibration target) | Louisiana and Massachusetts Departments of Public Health | ~/Data/LA\_syph\_data.xlsx  ~/Data/MA\_syph\_data.xlsx |
| prior.txt | Model parameterization | Prior distributions for parameters estimated by model calibration | Literature review and assumption/expert opinion | ~/Data/parameters.xlsx |
| theta\_LA.rda  theta\_MA.rda | Model parameterization | Initial values of model parameters to start model calibration |  | N/A |