Table 1 Descriptives

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## Getting total death counts

cmf\_extract <- readRDS("./data\_working/extracted\_cmf\_2010\_to\_2015.RDS")  
  
cmf\_extract %>%   
 filter(nhw == 1 | nhb == 1,   
 age12 < 10) %>%   
 group\_by(nhw) %>%   
 summarize(sum(n\_deaths)) %>%   
 knitr::kable()

|  |  |
| --- | --- |
| nhw | sum(n\_deaths) |
| 0 | 762639 |
| 1 | 2832444 |

## Getting total population counts

pop\_extract <- readRDS("./data\_working/extracted\_pop\_2010\_to\_2015.RDS")  
  
pop\_extract %>%   
 filter(nhw == 1 | nhb == 1,   
 age12 < 10) %>%   
 group\_by(nhw) %>%   
 summarize(sum(pop)) %>%   
 knitr::kable()

|  |  |
| --- | --- |
| nhw | sum(pop) |
| 0 | 220875881 |
| 1 | 995524222 |

## Getting county death summary stats

cmf\_extract %>%   
 filter(nhw == 1 | nhb == 1,   
 age12 < 10) %>%   
 group\_by(nhw, fipschar) %>%   
 summarize(deaths = sum(n\_deaths)) %>%   
 group\_by(nhw) %>%   
 summarize(min = min(deaths),   
 p050 = quantile(deaths, .05),   
 p500 = quantile(deaths, .5),   
 p950 = quantile(deaths, .95),   
 max = max(deaths)) %>%   
 knitr::kable()

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| --- | --- | --- | --- | --- | --- |
| nhw | min | p050 | p500 | p950 | max |
| 0 | 1 | 1 | 28 | 1154.4 | 29206 |
| 1 | 1 | 28 | 346 | 3631.0 | 34336 |

## Getting county population summary stats

pop\_extract %>%   
 filter(nhw == 1 | nhb == 1,   
 age12 < 10) %>%   
 group\_by(nhw, fipschar) %>%   
 summarize(pop = sum(pop)) %>%   
 group\_by(nhw) %>%   
 summarize(min = min(pop),   
 p050 = quantile(pop, .05),   
 p500 = quantile(pop, .5),   
 p950 = quantile(pop, .95),   
 max = max(pop)) %>%   
 knitr::kable()

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| --- | --- | --- | --- | --- | --- |
| nhw | min | p050 | p500 | p950 | max |
| 0 | 1 | 117.0 | 4942.5 | 278157.2 | 6689888 |
| 1 | 144 | 8595.5 | 98872.5 | 1344399.5 | 13811154 |

## SMR descriptive stats

prem <- readRDS("./data\_working/premature\_working\_data.RDS")  
  
prem %>%   
 mutate(smr = observed / expected) %>%   
 group\_by(black) %>%   
 summarize(min = min(smr),   
 p050 = quantile(smr, .05),   
 p500 = quantile(smr, .5),   
 p950 = quantile(smr, .95),   
 max = max(smr)) %>%   
 knitr::kable()

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| --- | --- | --- | --- | --- | --- |
| black | min | p050 | p500 | p950 | max |
| 0 | 0.0913431 | 0.6260549 | 1.036692 | 1.603707 | 2.478702 |
| 1 | 0.0000000 | 0.0000000 | 1.148343 | 2.298327 | 16.616960 |

## SMR predictions

predicted\_smrs <- readRDS('./data\_working/modeled\_and\_raw\_smrs.RDS')  
  
predicted\_smrs %>%   
 filter(model\_name != "raw") %>%   
 group\_by(param, model\_name) %>%   
 summarize(min = min(exp\_p500),   
 p050 = quantile(exp\_p500, .05),   
 p500 = quantile(exp\_p500, .5),   
 p950 = quantile(exp\_p500, .95),   
 max = max(exp\_p500)) %>%   
 arrange(desc(model\_name), desc(param)) %>%   
 knitr::kable()

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| param | model\_name | min | p050 | p500 | p950 | max |
| white\_smr | Unadjusted | 0.3646309 | 0.6649698 | 1.031153 | 1.568132 | 2.455919 |
| black\_smr | Unadjusted | 0.3070069 | 0.6872892 | 1.127107 | 1.872881 | 2.596957 |
| white\_smr | Adjusted | 0.4646747 | 0.7594118 | 1.034985 | 1.393185 | 2.036551 |
| black\_smr | Adjusted | 0.3111390 | 0.7262202 | 1.147949 | 1.761676 | 3.284144 |

## Relative risk

load("./data\_working/residual\_disparities\_data.RData")  
  
resid\_df %>%   
 filter(disp\_type == "total") %>%   
 mutate(exp\_p500 = exp(p500)) %>%   
 group\_by(model\_name) %>%   
 summarize(min = min(exp\_p500),   
 p050 = quantile(exp\_p500, .05),   
 p500 = quantile(exp\_p500, .5),   
 p950 = quantile(exp\_p500, .95),   
 max = max(exp\_p500)) %>%   
 arrange(model\_name) %>%   
 knitr::kable()

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| model\_name | min | p050 | p500 | p950 | max |
| Model 1 | 0.3347531 | 0.7531522 | 1.088941 | 1.670818 | 5.068136 |
| Model 2 | 0.3332527 | 0.7512343 | 1.088661 | 1.645551 | 4.550406 |