

openicpsr-111707

**Read Me File for “Re-Examining the Contribution of Public Health Efforts to the Decline in Urban Mortality” (Anderson, Charles, and Rees 2019)**

**Packages to install before running do files listed below:**

boottest: This command calculates p-values from wild cluster bootstrap procedure.

coefplot: This command is used to generate the event-study figures.

**Regression Tables and Event Study Figures**

Data File: Regression and Event Study Analyses.dta

Do File: Regression and Event Study Analyses.do

These files will replicate the following tables and figures in Anderson, Charles, and Rees (2019) in the following order:

**Table 5.** Descriptive Statistics

**Table 6.** The Effects of Water Quality, Sewage Treatment/Diversion, and Clean Milk on Total Mortality

**Table 7.** The Effects of Water Quality, Sewage Treatment/Diversion, and Clean Milk on Infant Mortality

**Table 8.** Robustness Checks: The Effects of Water Quality, Sewage Treatment/Diversion, and Clean Milk on Infant Mortality

**Table 9.** Infant Mortality and Lags of *Filtration*

**Table 10.** The Effects of Water Quality, Sewage Treatment/Diversion, and Clean Milk on Mortality by Cause

**Appendix Table 1.** Robustness Checks: The Effects of Water Quality, Sewage Treatment/Diversion, and Clean Milk on Typhoid Mortality

**Appendix Table 2.** Typhoid Mortality and Lags of *Filtration*

**Appendix Table 3.** Robustness Checks: The Effects of Water Quality, Sewage Treatment/Diversion, and Clean Milk on Diarrhea/Enteritis Mortality

**Appendix Table 4.** Diarrhea/Enteritis Mortality and Lags of *Filtration*

**Appendix Table 6.** Comparing City Characteristics of our Sample to that of Cutler and Miller (2005)

**Figure 5.** Pre- and Post-Filtration Trends in Infant Mortality

**Figure 6.** Pre- and Post-Filtration Trends in Typhoid Mortality

**Appendix Figure 7.** Pre- and Post-Filtration Trends in Total Mortality

**Appendix Figure 8.** Pre- and Post-Water-Related Intervention Trends in Total Mortality

**Appendix Figure 9.** Pre- and Post-Milk-Related Intervention Trends in Total Mortality

**Appendix Figure 10.** Pre- and Post-Water-Related Intervention Trends in Infant Mortality

**Appendix Figure 11.** Pre- and Post-Milk-Related Intervention Trends in Infant Mortality

**Appendix Figure 14.** Pre- and Post-Filtration Trends in Diarrhea/Enteritis Mortality

### **Figures on Mortality Trends**

Data File: Regression and Event Study Analyses.dta

Do File: Mortality Trends.do

These files will replicate the following figures in Anderson, Charles, and Rees (2019) in the following order:

**Figure 2.** Total and Infant Mortality Rates, 1900-1940

**Figure 3.** Typhoid Mortality Rates, 1900-1940

**Appendix Figure 3.** Percent of Total Mortality Due to Typhoid, 1900-1940

**Appendix Figure 4.** Ratio of Diarrhea/Enteritis to Typhoid Mortality, 1900-1938

**Appendix Figure 5.** Diarrhea/Enteritis Mortality Rates, 1900-1940

**Appendix Figure 6.** Non-Pulmonary TB Mortality Rates, 1900-1940

### **Figures on Predicted Values Had No Cities Filtered Water**

Data File: Regression and Event Study Analyses.dta

Do File: Predicted Values Had No Cities Filtered Water.do

These files will replicate the following figures in Anderson, Charles, and Rees (2019) in the following order:

**Figure 4.** Actual vs. Predicted Infant Mortality Rates

**Appendix Figure 12.** Actual vs. Predicted Typhoid Mortality Rates

**Appendix Figure 13.** Actual vs. Predicted Diarrhea/Enteritis Mortality Rates

### **Appendix Figures on Water- and Milk-Related Interventions Over Time**

Data File: Water- and Milk-Related Interventions Over Time.dta

Do File: Water- and Milk-Related Interventions Over Time.do

These files will replicate the following figures in Anderson, Charles, and Rees (2019) in the following order:

**Appendix Figure 1.** Municipal Water-Related Interventions Over Time

**Appendix Figure 2.** Municipal Milk-Related Interventions Over Time

### **Comparing Our Estimates to Those of Cutler and Miller (2005) + Rejoinder Tables**

Data File: Regression and Event Study Analyses.dta

Do File: Comparing Estimates to Cutler and Miller.do

The following data sets will need to be merged in to complete the replication of these tables:

-“Culter and Miller Data Set for Merge.dta” needs to be merged in at code line 10

-“Total Mortality Rate from Mortality Statistics 1910-1917.dta” needs to be merged in at code line 193

These files will replicate the following tables in Anderson, Charles, and Rees (2019) in the following order:

**Table 11.** Comparing our Total Mortality Estimates to those of Cutler and Miller (2005)

**Table 12.** Comparing our Infant Mortality Estimates to those of Cutler and Miller (2005)

**Appendix Table 8.** Differences in Recorded Infant Mortality Counts between Cutler and Miller (2005) and the U.S. Census Bureau’s *Mortality Statistics*

**Rejoinder Table 1.** Sensitivity of the Estimated Effect of Filtration on Total Mortality

**Rejoinder Table 2.** The Estimated Effect of Filtration on Total Mortality: Cutler and Miller (2005) vs. Catillon, Cutler and Getzen (2018)

### **Tables without Accompanying Do Files**

**Tables 1-4.** These tables simply list the dates of implementation for the water- and milk-related interventions under study. Note that when information on the exact date of implementation was available, the water- and milk-related interventions took on a value between 0 and 1 the year in which they went into effect. For instance, if chlorination went into effect on July 1<sup>st</sup>, the variable *Chlorination* would take on a value of 0.5 in that year.