

LA Grading Replication Kit

Introduction

The code and data in this repository will replicate the tables and figures in the main body of *New Evidence on Information Disclosure through Restaurant Hygiene Grading*, as well as the tables in "Appendix A: Extension to Later Analysis by Simon (2005)."

Requirements

R version 3.4.3 or higher. The scripts will attempt to automatically install the following R packages (and their dependencies) from [CRAN](#):

- data.table
- plm
- lmtest
- stargazer

Naming Conventions

Each script is named for the figure or table as it appears in the raw tex file. The naming convention is [Item number]_[item type]_[item name].

Instructions

Download the replication archive and make a note of the path. Open an R session. To replicate all figures and tables, run the following line in your R console:

```
source("[path to download location]/ReplicationKit/Code/0_Replicate_All.R")
```

where [path to download location] is a placeholder for the file location of the archive (e.g., "~/Downloads").

Example

```
R version 3.4.3 (2017-11-30) -- "Kite-Eating Tree"  
Copyright (C) 2017 The R Foundation for Statistical Computing  
Platform: x86_64-apple-darwin15.6.0 (64-bit)
```

```
R is free software and comes with ABSOLUTELY NO WARRANTY.  
You are welcome to redistribute it under certain conditions.  
Type 'license()' or 'licence()' for distribution details.
```

```
Natural language support but running in an English locale
```

```
R is a collaborative project with many contributors.  
Type 'contributors()' for more information and  
'citation()' on how to cite R or R packages in publications.
```

```
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

```
[R.app GUI 1.70 (7463) x86_64-apple-darwin15.6.0]
```

```
> source("~/Downloads/ReplicationKit/Code/0_Replicate_All.R")  
[1] "Running 1_Figure_fgjldid_JL_Hosp_1995-1999.R..."  
[1] "Running 1_Table_tbpvalence_LA_Hosp_Notif_Disease.R..."  
[1] "Table 1: Estimated annual U.S. hospitalizations and lab-confirmed illnesses"
```

Data Dictionary

Category	File Name	Description
<i>Hospitalizations</i>	hosp_county_year_1983_2009.csv	County-year aggregated hospitalization counts
	hosp_county_quarter_1983_2009.csv	County-quarter aggregated hospitalization counts
	hosp_zip3_quarter_1983_2009.csv	Zip3-quarter aggregated hospitalization counts
<i>Illnesses</i>	illness_reportable_1990_2015.csv	County-year aggregated reportable illness counts in 1990-2015 for campylobacter, salmonella, listeria, and vibrio
	illness_ecoli_1995_1999.csv	LA County reportable illness counts in 1995-1999 for E.coli
	illness_salm_1964_2015.csv	County-year aggregated reportable illness counts in 1964-2015 for salmonella
<i>Counties</i>	county_population_1964_2015.csv	County intercensal population from 1964-2015

Variable definitions

hosp_county_year_1983_2009.csv, hosp_county_quarter_1983_2009.csv	
<i>Variable Name</i>	<i>Label</i>
county	OSHPD county ID
county.name	County name
year	Year of admission
quarter	Quarter of admission
jl.codes.mdc6	Foodborne illness hospitalization counts that replicate Jin and Leslie (2003) disease selection (see Appendix D: Foodborne Disease)
control.jl.codes	Digestive disorder hospitalization counts excluding jl.codes.mdc6 (see Appendix D: Foodborne Disease)
jl.codes.mdc6.filter	jl.codes.mdc6 with filter for admissions from home as part of an unscheduled visit
control.jl.codes.filter	control.jl.codes with filter for admissions from home as part of an unscheduled visit
all.ecoli	E.coli hospitalization counts (ICD codes 00800, 00801, 00802, 00803, 00804, 00809)
salm.0030	Salmonella gastroenteritis hospitalization counts (ICD code 0030)
salm	Salmonella hospitalization counts (ICD codes 0030, 0031, 00320, 00321, 00322, 00323, 00324, 00329, 0038, 0039)
list	Listeria hospitalization counts (ICD code 0270)
staph	Staphylococcal food poisoning hospitalization counts (ICD code 0050)
camp	Campylobacter hospitalization counts (ICD code 00843)
hosp_zip3_quarter_1983_2009.csv	
<i>Variable Name</i>	<i>Label</i>
zip	Three-digit ZIP
quarter	Quarter of admission
year	Year of admission
year.qtr	Concatenated year and quarter of admission
simon.codes	Foodborne illness hospitalization counts that replicate Simon et al. (2005) disease selection (see Appendix D: Foodborne Disease)
append	Appendicitis hospitalization counts (ICD codes 5400, 5401, 5409, 541, 542, 5439)
jl.codes.mdc6	Foodborne illness hospitalization counts that replicate Jin and Leslie (2003)

	disease selection (see Appendix D: Foodborne Disease)
control.jl.codes	Digestive disorder hospitalization counts excluding jl.codes.mdc6 (see Appendix D: Foodborne Disease)
jl.codes.camp	jl.codes.mdc6 counts plus campylobacter hospitalization counts (ICD code 00843)
control.jl.codes.camp	Digestive disorder hospitalization counts excluding jl.codes.camp (see Appendix D: Foodborne Disease)
prop.la	Population proportion of the three-digit ZIP in LA
prop.socal	Population proportion of the three-digit ZIP in Southern CA
m	Replication of mandatory disclosure variable <i>m</i> from Jin and Leslie (2003) (see Appendix J: Calculation for <i>m</i> and <i>v</i>)
v	Replication of voluntary disclosure variable <i>v</i> from Jin and Leslie (2003) (see Appendix J: Calculation for <i>m</i> and <i>v</i>)
m.scaled	Mandatory disclosure variable <i>m</i> constrained only to jurisdictions fully within LA county for Southern CA placebo analysis (see Appendix J: Calculation for <i>m</i> and <i>v</i>)
v.scaled	Voluntary disclosure variable <i>v</i> constrained only to jurisdictions fully within LA county for Southern CA placebo analysis (see Appendix J: Calculation for <i>m</i> and <i>v</i>)
illness_reportable_1990_2015.csv	
<i>Variable Name</i>	<i>Label</i>
county	County name
year	Year of illness report
disease	Illness type (salm = salmonella, camp = campylobacter, list = listeria, vibr = vibrio)
count	Illness count
illness_ecoli_1995_1999.csv	
<i>Variable Name</i>	<i>Label</i>
county	County name
year	Year of illness report
disease	Illness type (E.coli)
count	Illness count
illness_salm_1964_2015.csv	
<i>Variable Name</i>	<i>Label</i>
Geography	Geographic region (CA = All of California, LA = LA County, OC = Orange County, RC = Riverside County, SB = San Bernardino County, SD = San Diego County)
X1964-X2015	Year of illness report
county_population_1964_2015.csv	
<i>Variable Name</i>	<i>Label</i>

Name	County name
year	Year of report
pop	County estimated population