

Replication package for “Is Healthcare Employment Resilient and “Recession Proof”?

By Marcus Dillender, Andrew I. Friedson, Cong T. Gian, Kosali I. Simon¹

Date: 9/28/2021

This is read me file for the replication package for the article on “Is Healthcare Employment Resilient and “Recession Proof”, which includes three parts: The first part presents the content of the package. The second part details execution. And third part includes the variables and their labels in each final data set used for estimation.

¹ Questions about the replication package can be directed to Cong Gian. Email tgian@iu.edu

A. Content

The replication package contains the following

Name	Purpose
Stata do-files	
001_Inquiry_IPEDS_setup.do	IPEDS data setup
002_Inquiry_QCEW_setup.do	QCEW data setup
01_Inquiry_figure1.do	Generating Figure 1
02_Inquiry_figure2.do	Generating Figure 2
03_Inquiry_figure3.do	Generating Figure 3
04_Inquiry_appdx_figure1.do	Generating Appendix Figure 1
05_Inquiry_appdx_tableB1.do	Generating Appendix Table B1 and B2
06_Inquiry_Appdx_TableB3.do	Generating Appendix Table B3 and B4
Stata Data Sets	
QCEW_HealthAffairs.dta	Final Data Set Used for Analysis from QCEW
IPEDS_HealthAffairs.dta	Final Data Set Used for Analysis from IPEDS
macro2005_2018.dta	Macro economic variables(e.g. unemployment rate, poverty rate and median income household) at county level X year as main independent variable and controls
seer_pop_9017_county_workingpop.dta	Working population data as weights at county X year level
zcta_county.dta	ZIP to county crosswalk for IPDES data before 2008

B. Execution

I. FOR IPEDS DATA SETUP

Run the following script for data set up

```
001_Inquiry_IPEDS_setup.do
```

Note that it requires (i) IPEDS raw data 2005-2017 (*hd* files and *c* files) which can be downloaded from <https://nces.ed.gov/ipeds/datacenter/DataFiles.aspx?goToReportId=7> and (ii) intermediate data sets such as *seer_pop_9017_county_workingpop.dta* (for working population count) , *macro2005_2018.dta* (for unemployment rates, poverty rates, and median household income) and *zip to county cross walk zcta_county.dta*²³

II. FOR QCEW DATA SETUP

Run the following script for data set up

```
001_Inquiry_IPEDS_setup.do
```

Note that it requires (i) QCEW raw data 2005-2017 (*quarterly single files*) which can be downloaded from <https://www.bls.gov/cew/downloadable-data-files.htm> and (ii) intermediate data sets such as *seer_pop_9017_county_workingpop.dta* ((for working population count)) and *macro2005_2017.dta* (for unemployment rates, poverty rates, and median household income)

III. RUN THE DOFILES FOR THE FIGURES/TABLES

```
do "$scripts/01_Inquiry_figure1.do" // Figure 1
```

```
do "$scripts/02_Inquiry_figure2.do" // Figure 2
```

```
do "$scripts/03_Inquiry_figure3.do" // Figure 3
```

```
do "$scripts/04_Inquiry_appdx_figure1.do" // Appendix Figure 1
```

```
do "$scripts/05_Inquiry_appdx_tableB1.do" // Appendix Table B1, B2
```

```
do "$scripts/06_Inquiry_appdx_figurB3.do" // Appendix Table B3, B4
```

²Stata scripts for generating these data sets are available upon request

³ The zip to county crosswalk was needed for IPEDS data before 2008

C. List of Variables and Definitions in Data Sets

- **QCEW final data set**

Variable name	Definition
Year	
statefips	State FIPS
countyfips	County FIPS
total_qtr_emp	Total employment in December
s_qtr_emp	Share of health care employment in December
qtr_emp	Employment in December
sample	Healthcare sector
workpop_cty	Working population count
unemp_cty	Unemployment rate
state_abbrev	State abbreviation
county_name	County name
poverty_cty	Poverty rate
medhh_inc_cty	Median household income
poptot_cty	Population count
poptot_cty2005	Population count baseline in 2005

- **IPEDS final data set**

Variable name	Definition
year	
countyfips	County FIPS
statefips	State FIPS
ctotalt0	Total number of graduates
ctotalt1	Number of graduates in healthcare
s_ctotalt	Share of healthcare graduates
poptot_cty	Population count
unemp_cty	Unemployment rate
medhh_inc_cty	Median household income
poverty_cty	Poverty rate
workpop_cty	Working population count
poptot_cty2005	Population count baseline in 2005
sample	Healthcare sector