

# Supplementary Material for

## “Is American Pet Health Care (Also) Uniquely Inefficient?”

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This is a readme file for the data and code used to generate the results reported in the paper.

### Data sources

We use four main data sources for the analysis: (i) the Consumer Expenditure (CEX) Survey micro-data from the Bureau of Labor Statistics, (ii) County Business Patterns (CBP) from the Census, (iii) Health care billing data from a large veterinary practice in California, and (iv) Administrative Medicare claims data (inpatient, outpatient and Part B files).

The first two data sources are standard, publicly available, and can be downloaded from <http://www.bls.gov/ce/pumd.htm> (CEX) and <http://www.census.gov/programs-surveys/cbp/data.html> (CBP). The veterinary billing data is confidential but the supplementary material includes an anonymized extract from which the results reported in the paper can be replicated (we also include code that generates this extract from the raw (confidential) billing data). Medicare claims data is confidential and cannot be made available under the terms of our data use agreement, so only the code is included. We also include the CPI price series data that we use to inflation-adjust spending values to 2012 dollars.

### Data files

- **cexfile.dta** – CEX relevant data file for Figure 1 and Figure 2
- **cpbfile.dta** – CBP relevant data file for Figure 3
- **vetfile.dta** – Veterinary billing data file for Figure 4 (pet spending only)
- **cpifile.dta** – CPI data series

### Code files

- **run\_sequence.do** – Master do-file that calls individual code files in proper sequence
- **cpi\_prepare.do** – Create CPI series file from raw data
- For Figure 1 and Figure 2
  - **cex\_prepare.do** – Create CEX data file from raw data
  - **cex\_fig1.do** – Produce spending time series
  - **cex\_fig2.do** – Produce spending pattern by income category
- For Figure 3
  - **cbp\_prepare.do** – Create CBP data file from raw data
  - **cbp\_fig3.do** – Produce time series pattern in establishments/employment
- Figure 4
  - **vet\_fig4.do** – Create monthly spending file for dogs from raw billing data and produce end-of-life pet spending pattern (recall, raw billing data is confidential and is not posted)
  - **mc\_prepare\_macros.txt** and **mc\_prepare\_run.txt** (SAS code) – Create end-of-life file from Medicare claims data (data file is confidential and is not posted)
  - **mc\_fig4.do** – Produce end-of-life Medicare spending pattern