

# Screening in Contract Design: Evidence from the ACA Health Insurance Exchanges README

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## 1 Raw data

### 1.1 Truven Marketscan data

Marketscan commercial claims data and the RED BOOK were accessed via the NBER. NBER-affiliated researchers can contact the NBER data custodians to request access. Non-affiliated researchers can contact Truven Health directly to purchase a license (<https://marketscan.truvenhealth.com/>). In order to run our code, Marketscan datasets should be loaded under `/raw/marketscan/data/`.

### 1.2 Managed Markets Insight & Technology (MMIT) formulary data

Plan formulary data for Exchange and Employer plans came from Managed Markets Insight & Technology, LLC. Inquire about data access <https://www.mmitnetwork.com>. The following MMIT data files from October 2015 are sufficient to replicate results:

- MMIT\_EPV2\_Channel.txt
- MMIT\_EPV2\_Drug\_Formulary\_Note.txt
- MMIT\_EPV2\_Drug\_Formulary.txt
- MMIT\_EPV2\_FDB\_NDC\_Crosswalk.txt
- MMIT\_EPV2\_Medispan\_NDC\_Crosswalk.txt
- MMIT\_EPV2\_Note\_Category.txt

- MMIT\_EPv2\_Note\_Type.txt
- MMIT\_EPv2\_Organization\_Bin\_Pcn\_Group.txt
- MMIT\_EPv2\_Organization\_Contract\_Plan.txt
- MMIT\_EPv2\_Organization\_Coverage.txt
- MMIT\_EPv2\_Organization\_Details.txt
- MMIT\_EPv2\_Organization\_Type.txt
- MMIT\_EPv2\_Therapeutic\_Class.txt
- MMIT\_EPv2\_Tier\_Status.txt
- MMIT\_EPv2\_Unified\_Tier\_Status.txt
- PBM\_Relationship.txt

In order to run our code, MMIT datasets should be loaded under `/raw/formulary/data/` and `/raw/pbm/data/`.

### 1.3 CCIIO Health Insurance Exchange Public Use

The 2015 Health Insurance Exchange Public Use files are provided by CMS's Center for Consumer Information & Insurance Oversight and can be downloaded from <https://www.cms.gov/ccio/resources/data-resources/marketplace-puf.html>. These files are packaged here under `/raw/ccio/data/`.

### 1.4 Elasticity estimates from Einav, Finkelstein, and Polyakova (2018)

The elasticity estimates from Einav, Finkelstein, and Polyakova (2018) can be downloaded as Table A14: Baseline Estimated Elasticities for All “Common” Therapeutic Classes from <https://assets.aeaweb.org/assets/production/files/6098.pdf>.

## 2 Data construction

To get to the datasets that are used in creating the figures and the tables, the directories under `/derived/` should be run in the following order.

## 2.1 Revenue and spending data

1. /therapeutic\_classes/code/build.do
2. /sample\_restrictions/code/build.do
3. /revenues/code/paysys\_drugs.sas
4. /revenues/code/risk\_adj\_drugs.sas
5. /spending\_measures/code/build.do
6. /spending\_measures\_quantiles/code/build.do
7. /therapeutic\_class\_payments/code/build.do
8. /therapeutic\_class\_payments\_ellis\_mcguire/code/build.do
9. /therapeutic\_class\_payments\_merge\_standardize/code/build.do

## 2.2 Tiering data

1. /load\_formulary\_data/code/build.do
2. /load\_pbm\_data\_data/code/build.do
3. /cost\_and\_frequency\_quartile/code/build.do
4. /cost\_and\_frequency\_decile/code/build.do
5. /formulary\_therapeutic\_classes/code/build.do
6. /formulary\_plans/code/build.do
7. /formulary\_therapeutic\_classes\_tiers/code/build.do
8. /formulary\_therapeutic\_classes\_tiers\_generics/code/build.do

## 2.3 Drug level data (used in Online Appendix)

1. `/drug_id_xwalk/code/build.do`
2. `/drug_level_formulary_top_1_3/code/build.do`
3. `/drug_level_formulary_top_4_6/code/build.do`
4. `/drug_level_formulary_top_7_10/code/build.do`
5. `/drug_level_spending_top_1_3/code/build.do`
6. `/drug_level_spending_top_4_6/code/build.do`
7. `/drug_level_spending_top_7_10/code/build.do`
8. `/drug_level_payments_top_1_3/code/build.do`
9. `/drug_level_payments_top_4_6/code/build.do`
10. `/drug_level_payments_top_7_10/code/build.do`
11. `/drug_level_compiled/code/build.do`

## 2.4 Other data

1. `/load_cciio_data/code/build.do`

## 3 Figures and tables

The figures and tables in the paper can be generated by running `/figures_and_tables/code/figures_and_tables.do`.