**neighbourhood-prescribing-inhalers – README for code repo**

Files required:

* **data-provided**
  + OP\_prescriptions.csv [AVAILABLE ON REQUEST]
  + OP\_measures
    - environmental\_inhalers.csv
    - icsdose.csv
    - saba.csv
* 00.0\_source\_prescribing\_data.Rmd
* 00.1\_get\_OP\_codes\_from\_file.R
* 00.1\_get\_OP\_codes\_from\_scrape.R
* 00.2\_get\_NHSBSA\_codes.R
* 00.3\_get\_BNF\_info\_from\_OP.R
* 00.4\_get\_OP\_prescriptions.R
* 01.0\_source\_practice\_and\_demographic\_data.Rmd
* 01.1\_get\_ONS\_CCG\_shapes.R
* 01.2\_get\_NHS\_CCG\_patient\_numbers.R
* 01.3\_get\_QOF\_data.R
* 01.4\_get\_LSOA\_patient\_data.R
* 01.5\_get\_LSOA\_IMD\_data.R
* 02.0\_calculate\_prescribing\_measures.Rmd
* 03.0\_generate\_plots.Rmd

**Running the code**

There are four R Markdown (.Rmd) files which call the other R scripts to run all of the operations. These are:

* 00.0\_source\_prescribing\_data.Rmd
* 01.0\_source\_practice\_and\_demographic\_data.Rmd
* 02.0\_calculate\_prescribing\_measures.Rmd
* 03.0\_generate\_plots.Rmd

Run the .Rmd files in order to run the project from start to finish.

The end of 00.0\_source\_prescribing\_data.Rmd scrapes the OpenPrescribing API, which could take > 18 hrs. We will therefore make the original data we downloaded, ‘OP\_prescriptions.csv’, available on request as it is too large for the repo. Copy OP\_prescriptions.csv into a folder named ‘data’ in the same directory as the R scripts and run all chunks above ‘## 3. Collect Prescribing data from Open Prescribing.net’ in 00.0\_source\_prescribing\_data.Rmd to avoid this step. NOTE: be sure to also run ‘2.4. Call OpenPrescribing.net API to get drug details (name, is generic) from code’.

The ‘OP\_measures’ folder is also provided – this contains the BNF codes from the OpenPrescribing website that were previously scraped from the internet. The interface has since changed making this impossible, so we provide the codes manually exported to .csv format.