Data Documentation

* Shape Data from ESPEN Website
* Drug data from Nigeria JRSM 2018, downloaded from the ESPEN Data Portal
  + All LF Data (for the drug ALB and IVM) was disregarded because it wasn’t complete
  + PZQ Data was pulled from the PZQ sheet
    - Total Drugs Procured comes from PZQ -> Tablets to be procured
    - Total People Requiring Treatment comes from Population Requiring Treatment with PZQ -> Totals
  + IVM Data was pulled from the IVM Sheet
    - Total people requiring treatment comes from Target Population -> Oncho -> Total
    - Total drugs procured comes from IVM -> Oncho only
      * It also comes from IVM -> LF+Oncho, only if the corresponding row in the IVM -> Oncho only column is 0.
        + This is due to the fact that the Oncho Only and LF+Oncho columns are the same when they are both filled in.
  + MBD Data was pulled from the ALB\_MBD Sheet
    - Total people requiring treatment comes from Target Population -> STH(MBD) -> Total
    - Total drugs procured comes from MBD -> Tablets to be Procured
* GBD Data from IHME 2017
  + YLD Rate pulled from the GBD tool, for each disease, and for all genders, and ages.
  + <http://ghdx.healthdata.org/gbd-results-tool>
* Nigeria State Population Data
  + <https://www.worldometers.info/world-population/nigeria-population/>
  + Hand copied from the website to an excel document
* Additional Data Sources for the future
  + Disease by country CSV from ESPEN
  + <http://espen.afro.who.int/countries/nigeria> (replace Nigeria with country name)
    - Navigate to the disease you are looking at, and then the data option.
* Formulas
  + Each drug ratio was calculated by taking the total procured / total requiring treatment
  + YLDs calculated by taking the total state population / YLD Rate
    - Future ideas to make the YLD more accurate based upon more accurate prevalence data found in the additional data sources
  + Drugs Used vs Procured
    - DrugPopTreat / Drug Total Procured