



Science For A Better Life



Mapping Mirena© Users in the US

June 2018, Jose F Diaz



Agenda

- Visualization tool
 - Challenges
 - Graphs



Introduction

- Mirena (levonorgestrel) device
- Contraceptive
- Assessing Post marketing side effects



MEDICAID

- All prescriptions, paid by MEDICAID, by state and year
- Data base available for download at medicaid site
- Millions of records

Mapping Mirena users in the US



R Shiny

- Web framework for R
- Allows interactive graphs
- Libraries available online

Mapping Mirena users in the US



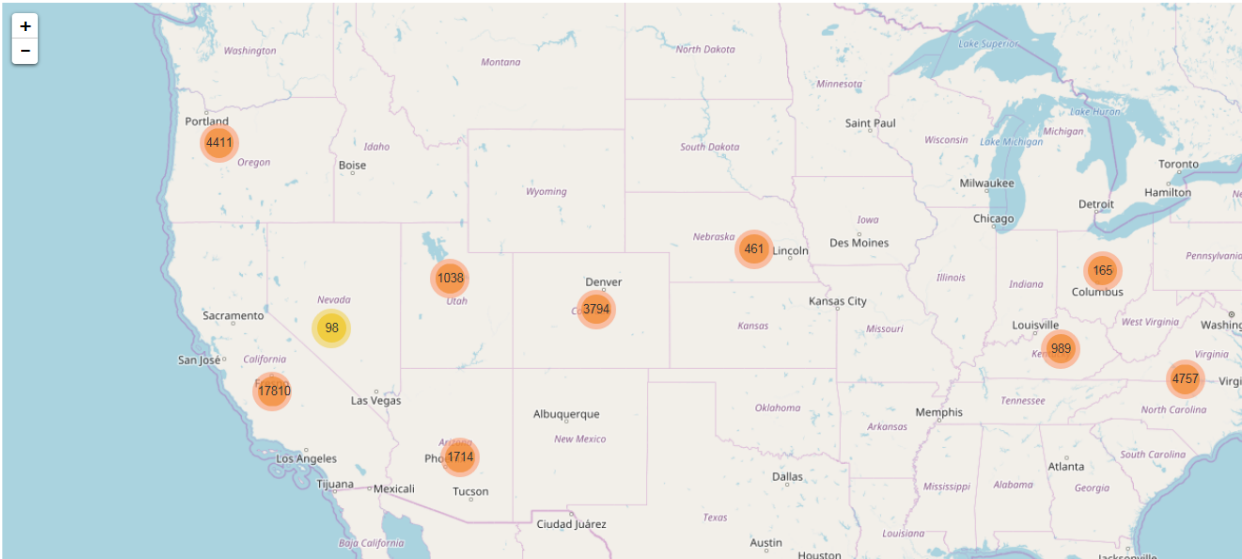
- Leaflet
- Open source JavaScript library
- Shiny version available as a package
- Able to use Shiny structure
- Example :
 - Shiny uses Output widget plotOutput, and renderPlot
 - Leaflet uses LeafletOutput and renderLeaflet
- Library(Shiny)
- Library(Leaflet)

Mapping Mirena users in the US



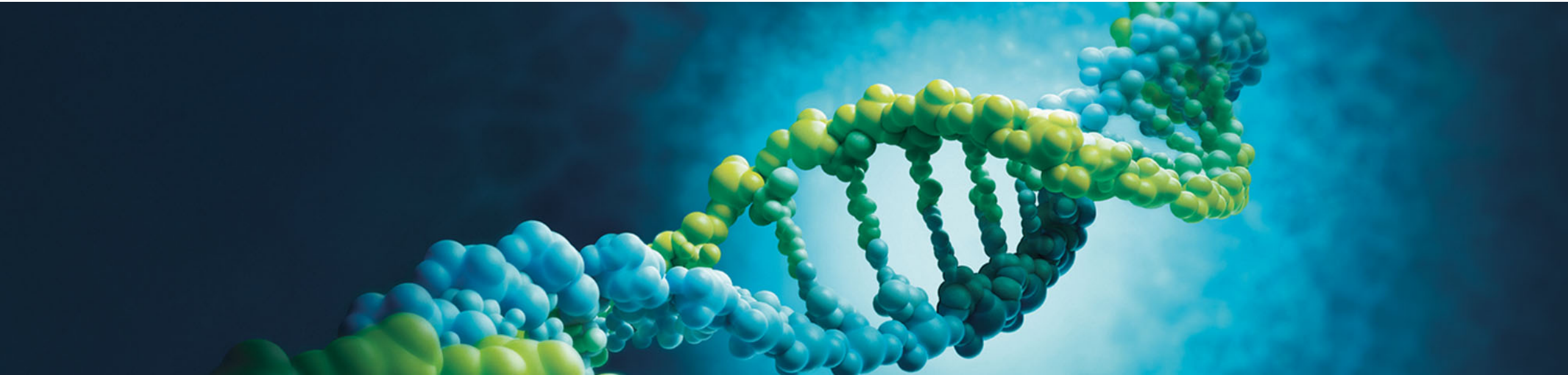
Visualization tool

Visualization Tools - Mirena prescriptions 3Q 2012 to 2Q 2013 - MEDICAID





Science For A Better Life



Thank you!