Practical Data Science: Team 1 Project Strategy

Impact of Opioid Control Policies

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1. Variables Required

2	Final	Dataset
d.	LIIIdi	Dataset

FIP	State		Year	Volume of Opioid Prescriptions per capita	Drug death capita	•	Post Policy Change
	b. Intermediate [Datasets					
FIP		State		Year		Volume of Prescriptio	•
FIP		State		Year		Drug overd	ose deaths
FIP		State		Year		Population	1

c. Source File 1 (Opioid Prescriptions)

				Buyer -	Buyer -	Transaction
Drug code	Drug Name	Quantity	Strength	County	State	date

d. Source File 2 (Cause of Death)

			Drug/Alcohol		
County	CODE (state)	Year	Induced Cause	Cause Code	Deaths

e. Source 3 (Population)

a		
State	County	Population
Juli	Country	η ι οροιατίστι

f. Crosswalk (State, County, FIP)

State	County	FIP

2. Sample

Years	2003 - 2015
States required for Study	Washington, Texas, Florida
Control	USA as an aggregate
States possibly for Control (Neighboring states of	Washington: Idaho, Oregon
states required for study)	Florida: Georgia, Alabama
	Texas: Louisiana, New Mexico

3. Task Assignment

a. Source Data Cleaning

i. Source File 1 (Opioid Prescriptions)
ii. Source File 2 (Cause of Death)
iii. Source File 3 (Population)
iii. In-charge: Joseph
iii. Support: Joseph
iii. Support: Joseph
iii. Source File 3 (Population)
iii. In-charge: Xiaomeng
iii. Support: Joseph
iii. Support: Jaryl

Possibly Aggregate for the whole of USA

Filter out irrelevant states

b. Merging In-charge: Joao Support: Jaryl

i. Merge on year, FIP, state for all source datasets

c. Analysis In-charge: Xiaomeng Support: Everyone

i. Pre-post analysis for all relevant states for volume of opioid prescriptions per capita and drug overdose deaths per capita

ii. Difference-in-difference analysis for all relevant states for volume of opioid prescriptions per capita and drug overdose deaths per capita