Web scraping drug discount coupon websites

By Chitra Sharathchandra

1

Prescription drugs and drug discount coupons

- Prescription drug costs are going up from \$25 billion in 2000 to \$67 billion in 2025
- 9% of Americans do not have insurance and pay out of pocket for prescription drugs
- Drug discount coupons are one way to curb prescription cost
- Drug coupons are offered by manufacturers as a marketing tool
- Drug coupon use has been controversial in cases where consumers opt to buy a brand name drug with a coupon in lieu of using generics
- Consumer advocacy groups, however, recommend drug discount websites because the price of a drug with a coupon can be less than what you may pay out of pocket

Dataset and Objectives

Data Description

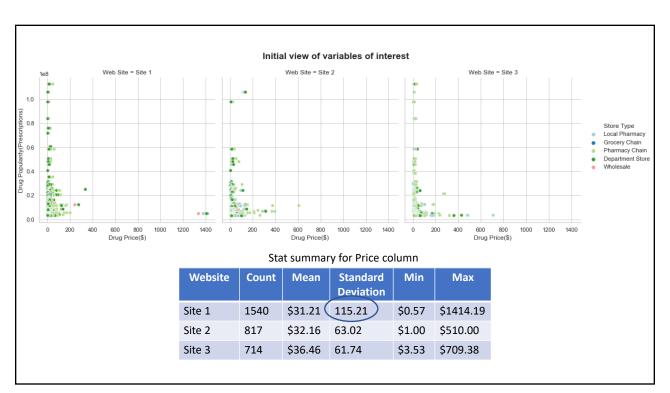
- Top 200 drugs by number of prescriptions
 - Drug name
 - Number of prescriptions filled b)
 - Rank by number of prescriptions filled (used for Drug Popularity index)
- 2. Three drug discount websites data on price of top 200 drugs in the Pittsburgh area
 - Drug name Site 1 154 drugs, Site 2 102 drugs, Site 3 110 drugs

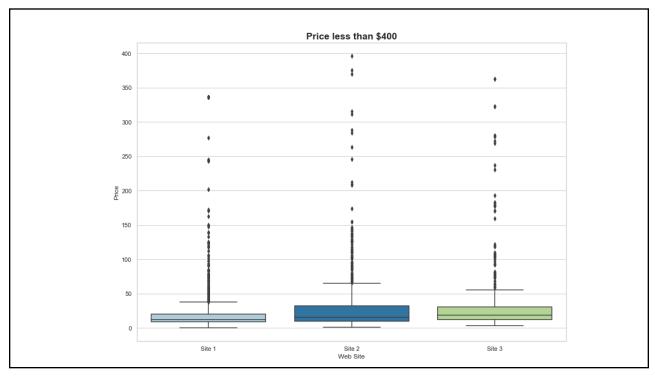
 - Store Name Site 1 10 stores, Site 2 8 stores, Site 3 6 stores c)
- Store Types
 - a) Store Name
 - Store Type Local pharmacy, Pharmacy Chain, Grocery Chain, Department Store, Wholesale

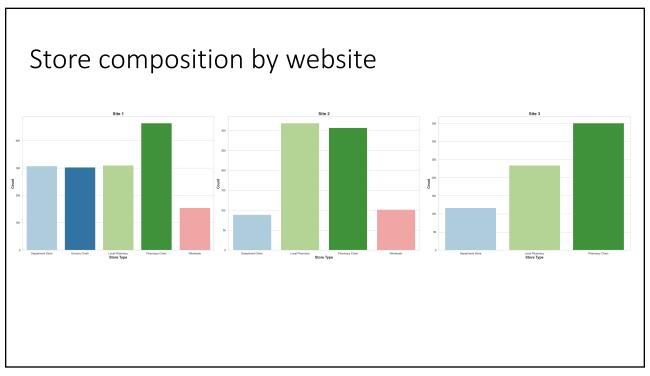
Questions to be answered

- Overall, which types of stores offer the best deals on drug discount websites in the Pittsburgh area
 Do more popular drugs behave differently from the less popular drugs?
- Do more expensive drugs behave differently from cheap drugs?
- What strategies are needed by stores so they can attract more customers using drug discount coupons

3



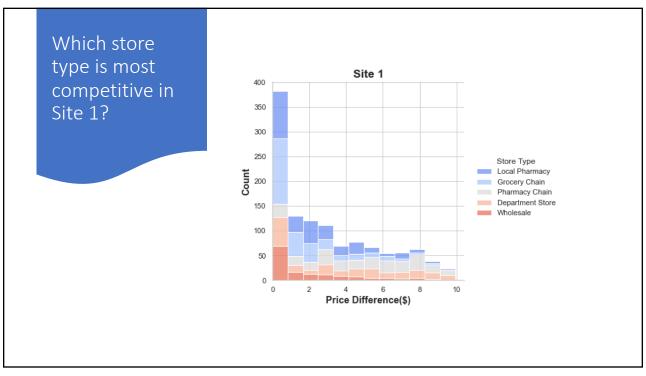


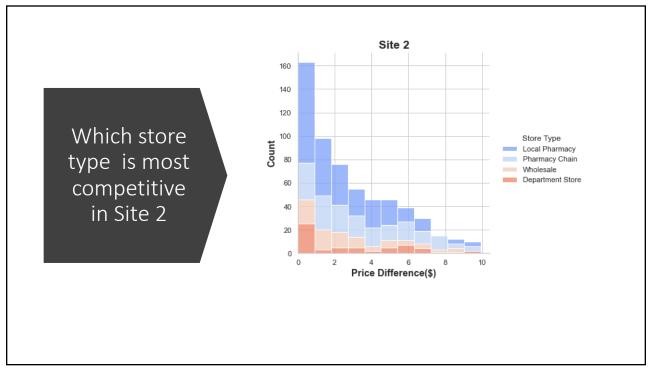


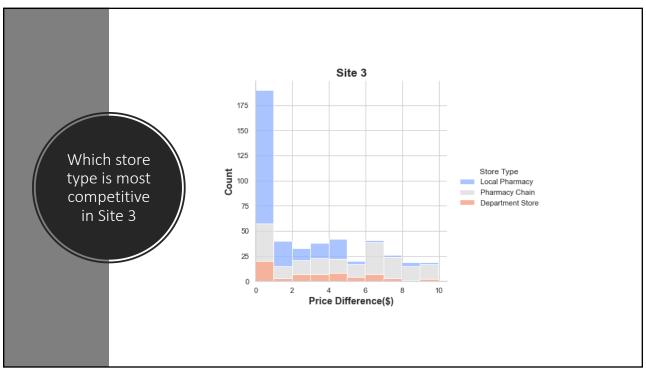


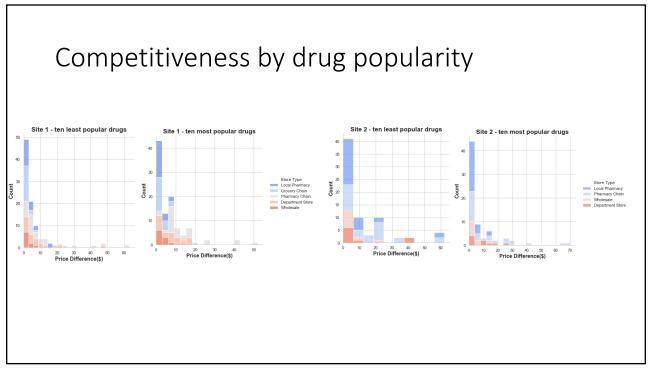
Site 2 – who has the lowest prices and who is charging the most? 8

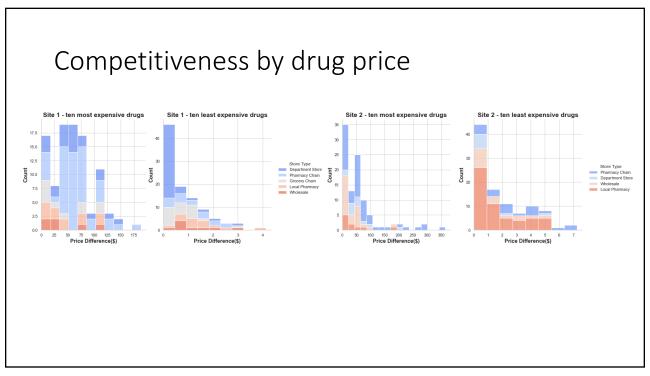












Recommendations for local pharmacies