

Prescription Application Development



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Purpose Statement

Objective

Identify if patient age should be targeted during our prescription application development

Purpose

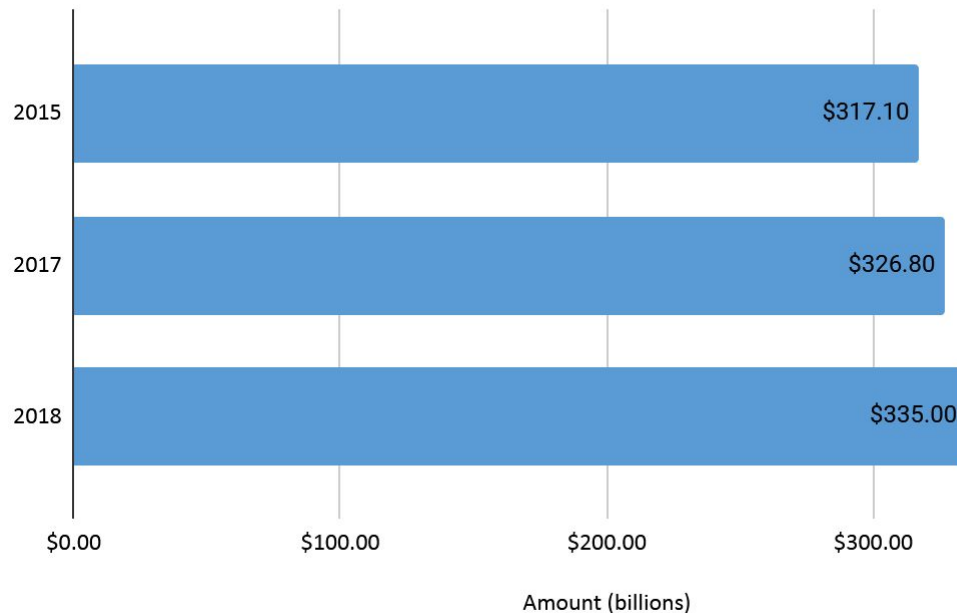
- **WHY:** Want to know who our customers are and who uses our services the most
- **HOW:** Identify overall trends in age with prescription use and smartphone use

Data

National Health Expenditure

- Expenditure in the United States on prescription drugs has continued to increase over time
- Trend is likely to continue

National Health Expenditure on Prescription Drugs

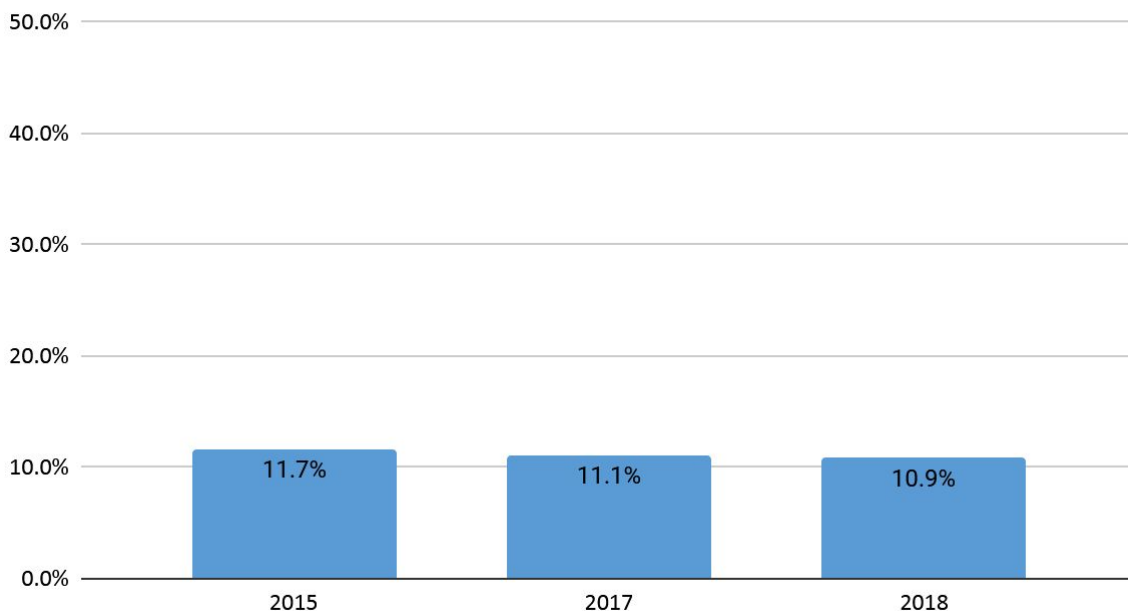


Source: Centers for Disease Control and Prevention (CDC):
“National health expenditures, average annual percent change, and percent distribution, by type of expenditure: United States, selected years 1960–2018”

Personal Health Care Expenditures

- Prescription drugs account for near 11% of personal health care expenditures
- Percentage has remained steady

Prescription Drugs as Percent of Personal Health Care Expenditures



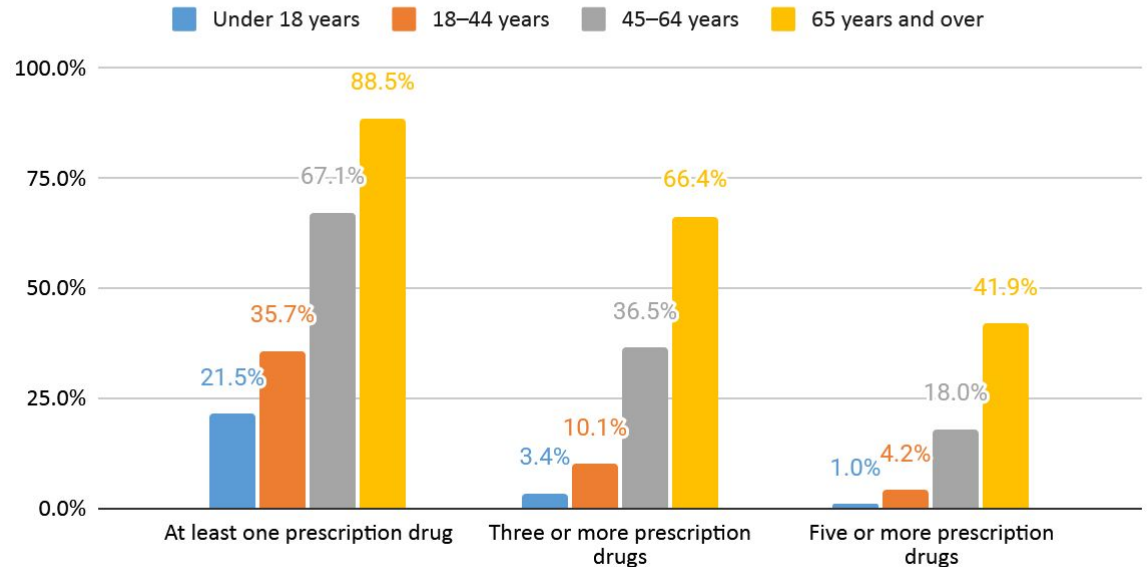
Source: Centers for Disease Control and Prevention (CDC): “National health expenditures, average annual percent change, and percent distribution, by type of expenditure: United States, selected years 1960–2018”

Prescription Drug Use

- Age has an influence on prescription drug usage
- More prescriptions are used on a 30 day basis for the oldest grouping

Prescription Drug Use in Past 30 Days

From 2015-2018

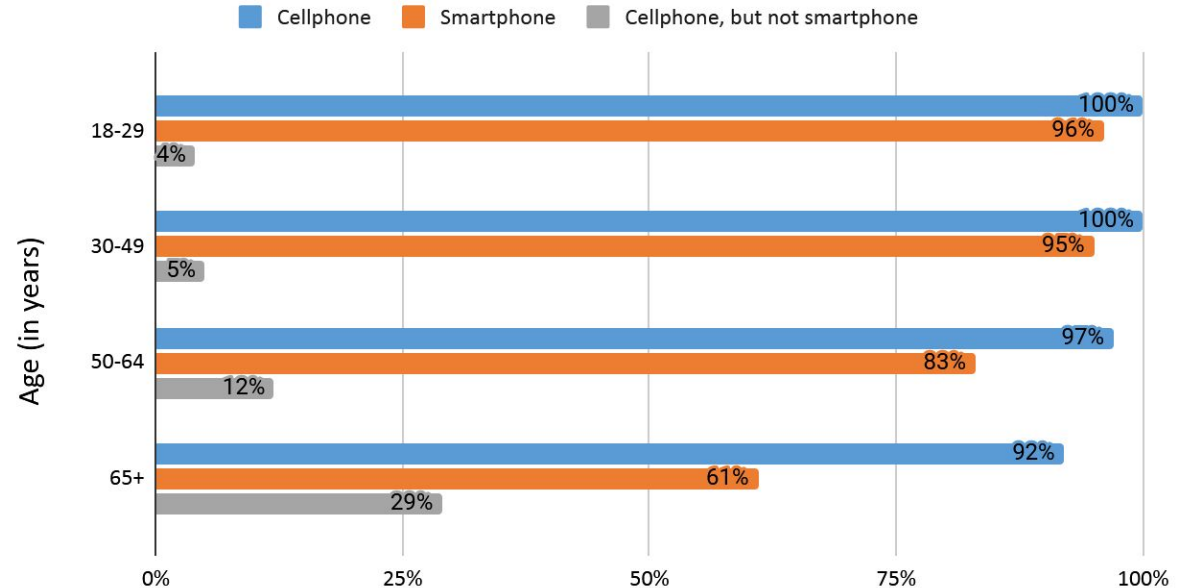


Source: Centers for Disease Control and Prevention (CDC): “Prescription drug use in the past 30 days, by sex, race and Hispanic origin, and age: United States, selected years 1988–1994 through 2015–2018”

Smartphone Use

- Smartphone use decreases by age
- Possibility of using smartphone application to reach older population decreases due to lack of device usage

Cellphone versus Smartphone Usage by Age



Source: Pew Research Center: "Mobile Fact Sheet" - Source: Survey of U.S. adults conducted Jan. 25-Feb. 8, 2021.

Conclusion

Conclusions

- Prescription drug expenditures continue to be a **significant cost** for both the United states and patients as a whole
- **Older patients** use **more** prescription medications than younger patients
- **Older patients** are **less likely** to have a smartphone in order to use applications so they may be more difficult to target

Future Analysis

- Other factors (besides age) that influence amount of prescription drugs used
- Survey of our older customers to find out what method of contact or reminder service would be most beneficial
- Discussion of how application development could be geared toward our older customers