

Xarelto Z-Tracker

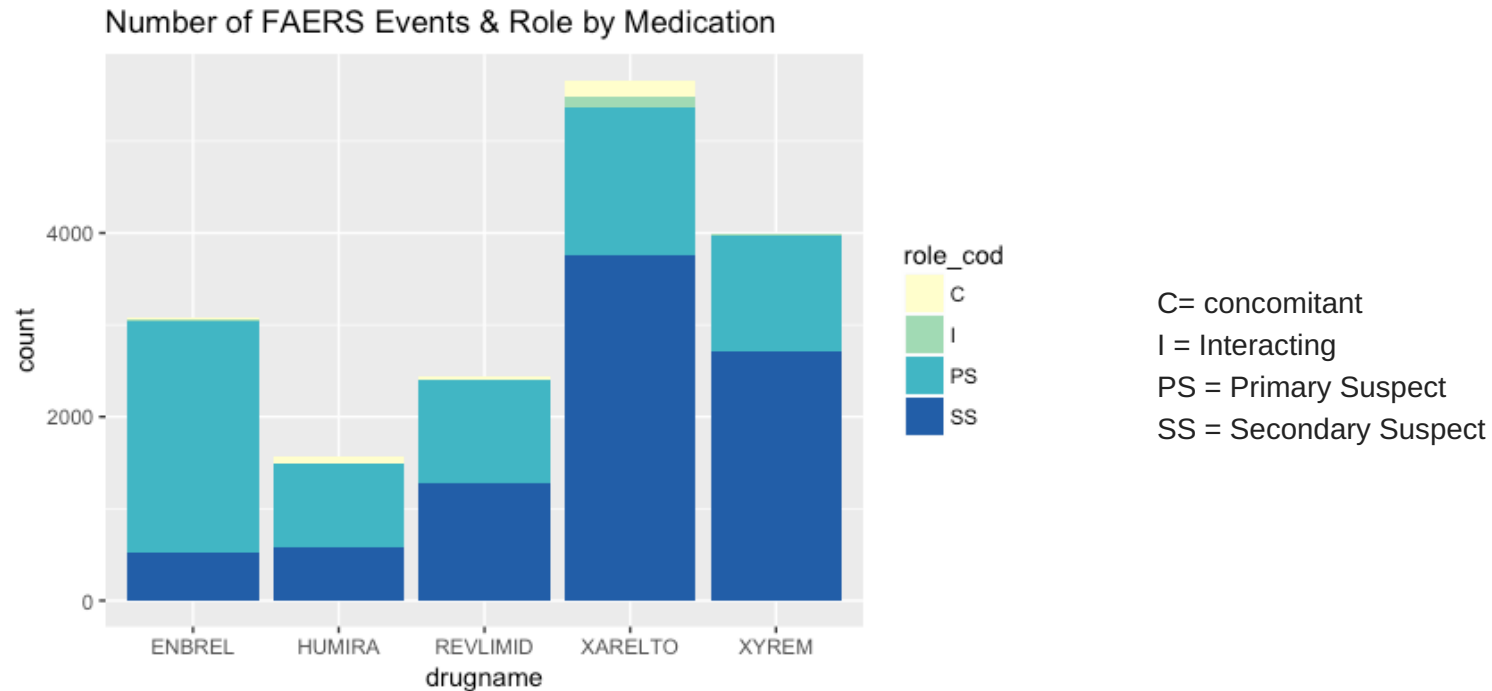
Health Care App



29th January 2017

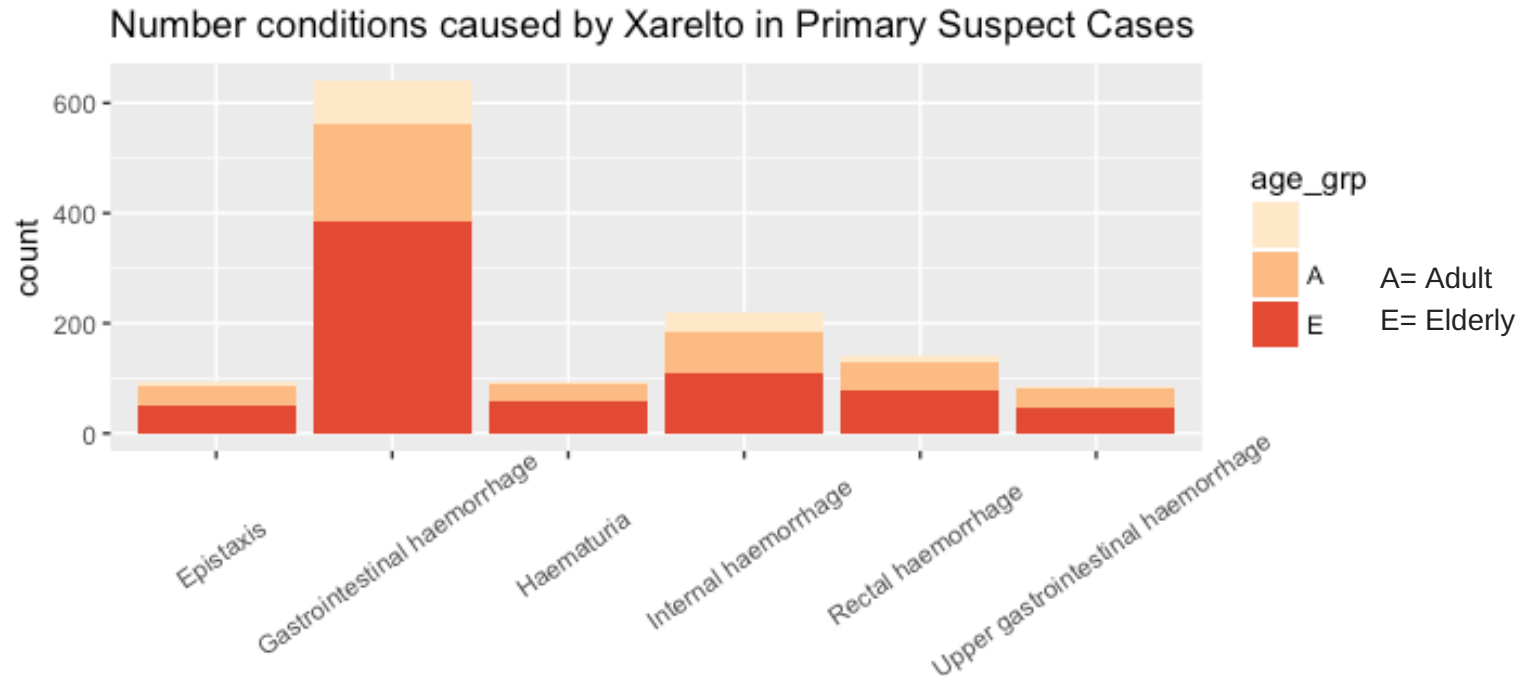
Purdue University Health Data Hackathon

Why Rivaroxaban (Xarelto)?



- According to the open source data available by the FDA Adverse Event Reporting System (FAERS), Xarelto is the most common drug to cause adverse reactions in patients.
- While most of these cases result identified Xarelto as Secondary Suspect, data in which Xarelto was a Primary Suspect was strictly utilized.

Effects of Xarelto:

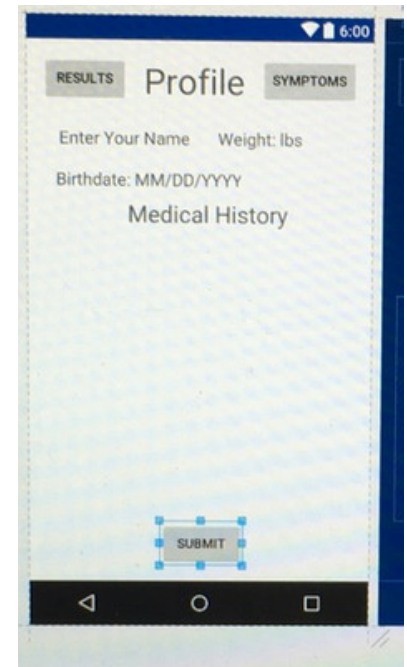


- These are the top 6 adverse effect when taking Xarelto & the age groups effected most by it
- Patients taking Xarelto need to accurately assess if their side effects is normal/ abnormal to reduce chances of developing further complications.
- Other conditions included: cerebral haemorrhage, CVA, death, & acute kidney injury

Functionality

What can Xarelto Z-Tracker do?

- User will be asked to enter DOB, sex, name, weight, past medical history, and symptoms experienced
- App will determine if the symptoms require the user to go to the hospital or seek medical advice based off the popularity of the symptom
- Great way for users to double check the severity of their symptoms given their personal medical information



Further Recommendations

to improve the app

- Add more medications (beyond Xarelto) and more side effects
- Increase accuracy of frequency calculation by increasing dataset
- Account for medication dosages & user weights or age
- Consider ways to prevent possible HIPPA violations
- Improve accessibility for users who speak different languages, are hard of hearing, or visually impaired.

