

Rifampin: Twitter versus FAERS Data



Alexis Hash, Jessie Lee, Carlie Schneider, Morgan Dinsmore, Ania Niezgoda

Introduction:

Rifampin is an antibiotic that is mainly used to treat or prevent Tuberculosis. For this project, we used Twitter data and SafeRx FAERS data to compare the most common reported adverse effects of this drug.

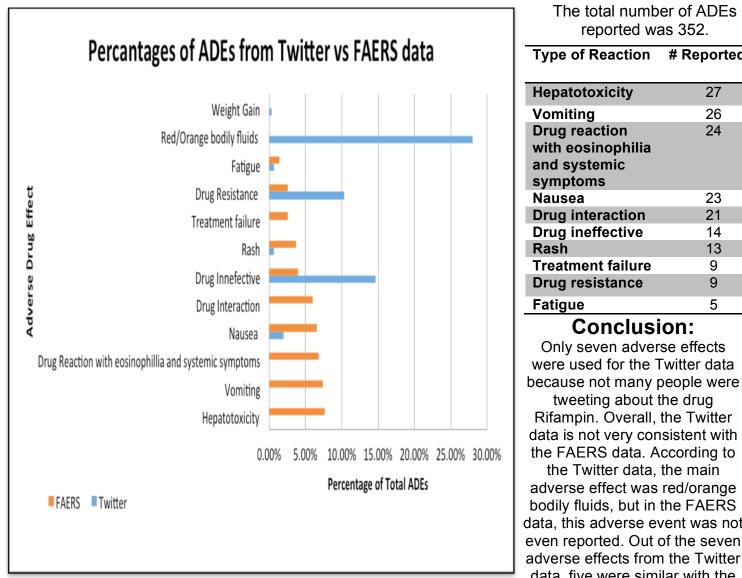
Top 7 Twitter Reactions:

300 tweets were used from 1/7/2010 to 3/7/2017, and only 170 tweets out of the 300 mentioned ADEs.

Type of Reaction

| Type of Reaction | Reported |
|--------------------------|----------|
| Red/orange bodily fluids | 84 |
| Drug ineffective | 44 |
| Drug resistance | 31 |
| Nausea | 6 |
| Fatigue | 2 |
| Rash | 2 |
| Weight gain | 1 |

Twitter Events versus FAERS Data: Reported as a Percentage of Adverse Drug Events:



Top 10 FAERS Reactions:

The total number of ADEs reported was 352.

Type of Reaction # Reported

| Hepatotoxicity | 27 |
|-------------------|----|
| Vomiting | 26 |
| Drug reaction | 24 |
| with eosinophilia | |
| and systemic | |
| symptoms | |
| Nausea | 23 |
| Drug interaction | 21 |
| Drug ineffective | 14 |
| Rash | 13 |
| Treatment failure | 9 |
| Drug resistance | 9 |
| Fatigue | 5 |

Conclusion:

Only seven adverse effects were used for the Twitter data because not many people were tweeting about the drug Rifampin. Overall, the Twitter data is not very consistent with the FAERS data. According to the Twitter data, the main adverse effect was red/orange bodily fluids, but in the FAERS data, this adverse event was not

data, five were similar with the FAERS top ten adverse events.