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## Introduction

According to the FAERS data, over 2,300 reports have been made related to adverse effects of Adderall. In order to compare the FAERS reports to public discussion of adverse effects, we collected 300 tweets from Twitter related to the adverse effects of Adderall. We only reviewed tweets that were posted between January 1, 2016 and June 30, 2016. We used the following keywords to include as many slang terms for Adderall as possible: "Adderall OR adderall OR Addy OR addy". Tweets were only collected if they were originally written by the person posting the tweet; tweets were not included if they were in reply to someone else's tweet or if they included a link to another website or tweet.

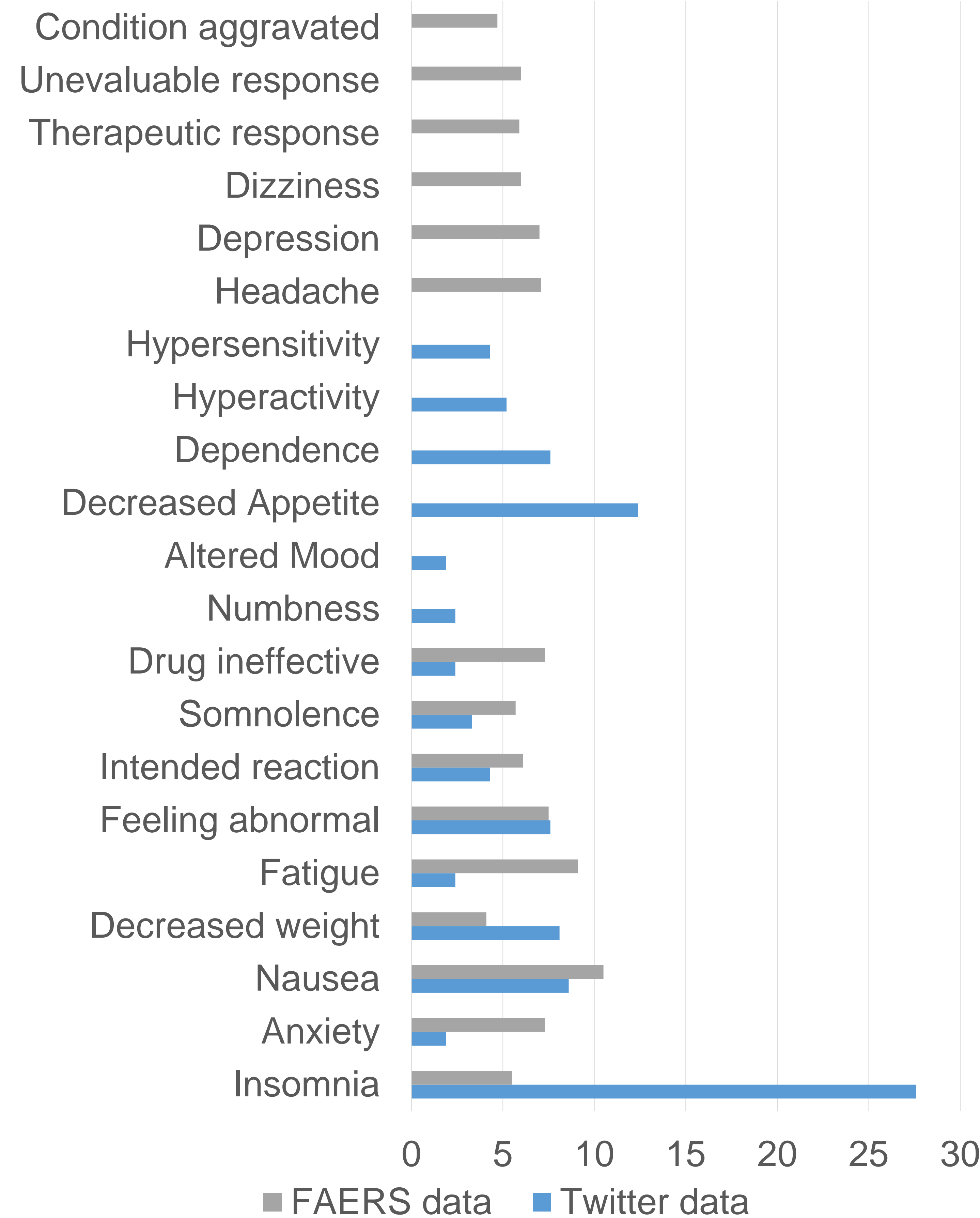
## Analysis of Twitter Data

227/306 tweets from 1/1/16 – 6/30/16 stated at least one ADE (74.2%), 28 ADEs were reported, and 11 tweets contained two adverse effects

## Top 15 Twitter Reactions

Adverse effect	Number of incidents
Insomnia	58
Decreased Appetite	26
Nausea	18
Decreased weight	17
Dependence	16
Feeling abnormal	16
Hyperactivity	11
Hypersensitivity	9
Intended reaction	9
Somnolence	7
Drug ineffective	5
Fatigue	5
Numbness	5
Altered Mood	4
Anxiety	4

## Twitter versus FAERS Reported as a Percentage of Adverse Drug Event



## Analysis of FAERS Data

The total number of ADE's reported to FAERS that were primarily attributed to Adderall was 1689 between the dates of 01/01/2016- 06/30/2016.

## Conclusion

- Within the FAERS data, nausea, fatigue, and feeling abnormal were the most commonly reported adverse effects.
- Based on the Twitter data, insomnia, decreased appetite, and nausea were the most commonly reported adverse effects.
- Many of the adverse events reported on Twitter matched or were similar to the adverse events reported in FAERS, such as nausea, fatigue, anxiety, and insomnia.
- Adverse effects vary from person to person based on many psychological and physiological differences between people; however, we must consider that some of the adverse events reported may be related to the fact that some people taking Adderall do not have a therapeutic need or prescription for the drug.

## Top 15 FAERS Reactions

Adverse effect	Number of incidents
Nausea	178
Fatigue	153
Feeling Abnormal	127
Anxiety	124
Drug Ineffective	124
Headache	120
Depression	118
Intentional Product Use	103
Dizziness	101
Unevaluable Event	101
Therapeutic Response	100
Somnolence	97
Insomnia	93
Condition Aggravated	80
Weight Decreased	70