

## DATASET & ACQUISITION METHOD

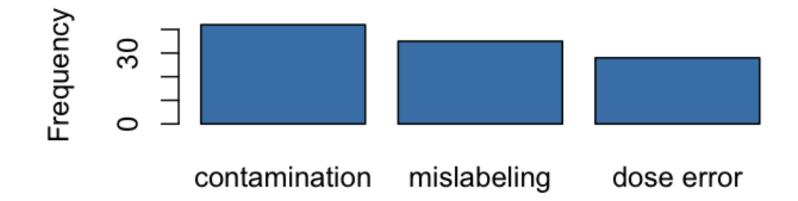
Purpose: FDA Drug Recall

### Include:

- FDA Drug Enforcement Reports API
- Variables: Product Description, Reason for Recall, Classification (I, II, III)
- Acquisition: R with httr + jsonlite; paginated JSON API
- Status: Initial 100 records retrieved and parsed

# EXPLORATORY DATA ANALYSIS

### Frequent Recall Keywords



# PLANNED MODEL & PRODUCT

**Purpose:** Examine trends in recall classifications over time & identify common reasons for recall.

### **Include:**

- Model Type: Logistic Regression to classify the sentiment of reviews
- What the user can do: dropdowns, sliders, text input, prediction button, etc.
- **App Tech:** Shiny in R/Python, model served via Flask or Plumber, deployed via shinyapps.io or EC2
- **Stretch Goal:** Anything extra if time allows