Data Manipulation for VAERS data

(R code for Data PAT, data VAX, data ae, data AE, full dds.csv: manipulation.R)

Patient data based on VAERS ID From "VAERSDATA" (2000~2018) data PAT Variables: VAERS ID (unique key), CAGE YR (Vaccine 521,831 obs. date - Birthday), NUMDAYS, STATE 126,381 obs. are missing in CAGE YR + data AE meddra ptlist.csv data ae 1,651,640 obs. 1,651,640 obs. = data ae + (Code: meddra ptlist.csv CleaningMeddraTerms.R) AE data based on Merge + Web scraping In 'data ae', a lot of VAERS ID AE NAME are the From informal (or old) terms "VAERSSYMPTOMS" RESTful API Also, 'data ae' doesn't Variables: have their Meddra ID VAERS ID (NOT Thus, we do a data unique key), BioPortal HTML cleaning by web-scraping AE NAME, year source Vaccine data based on VAERS ID data VAX From "VAERSVAX" (2000~2018) 798,561 obs. Variables: VARES ID (NOT unique key), VAX NAME, 521,830 unique VARES ID VAX TYPE (Since a VARES ID has 1~5 There is no missing (NA) in this dataset.

full_dds.csv 2,551,766 obs.

- missing in
 MEDDRA_AE_NA
 ME (Unique: 52
 AE names are
 unmatched)
- vaxnum = 1 vs vaxnum > 1: 1,159,223 obs. vs 1,392,541 obs.
- 338,747 obs. are missing in CAGE_YR

Future Manipulation

- Remove and/or combine some PT terms including unmatched AEs
- Handling missing values
- Handling data based on 'vaxnum' and/or 'wt_report'