

Dangerous Lots

A Group of Covid Vaccine Lot Numbers From VAERS Database Appear to Be “Dangerous” While Most Lots Are “Benign”

A Game of Russian Roulette, Anyone?

Introduction:

Mass vaccination with covid vaccines has been under way for nearly a year now in the US and worldwide. Several billions of doses have been administered, majority are the so-called mRNA vaccines manufactured by Pfizer, Moderna, Johnson&Johnson, Astra Zeneca and a few smaller players. In the US, most of the vaccines have been supplied by Pfizer and Moderna. They are the focus of this report.

Established in 1990, the Vaccine Adverse Event Reporting System (VAERS) <https://vaers.hhs.gov/about.html> is a national early warning system to detect possible safety problems in U.S.-licensed vaccines. VAERS is co-managed by the Centers for Disease Control and Prevention (CDC) and the U.S. Food and Drug Administration (FDA). VAERS accepts and analyzes reports of adverse events (possible side effects) after a person has received a vaccination. Anyone can report an adverse event to VAERS. Healthcare professionals are required to report certain adverse events and vaccine manufacturers are required to report all adverse events that come to their attention.

VAERS is a passive reporting system, meaning it relies on individuals to send in reports of their experiences to CDC and FDA. VAERS is not designed to determine if a vaccine caused a health problem, but is especially useful for **detecting unusual or unexpected patterns of adverse event reporting that might indicate a possible safety problem with a vaccine**. This way, VAERS can provide CDC and FDA with valuable information that additional work and evaluation is necessary to further assess a possible safety concern.

I am highlighting this specific reason for existence of the VAERS database since everything described below is exactly what HHS claims they want to achieve by having this database – an identification of unusual patterns that indicate a problem.

The Covid Vaccine Dataset:

The dataset for my analysis was pulled from the VAERS website (as of October 15, 2021 release) using steps that I am happy to share with anyone who wishes to replicate my analysis. The final dataset was merged from several files available in VAERS with the following information:

- Vaccine lot number

- Manufacturer
- Number of Adverse Event Reports that contained this Lot Number
- Number of Death reports that contained this Lot Number
- Number of Hospitalizations that contained this Lot Number
- Number of US states where Reports containing this Lot Number were filed

The total dataset contained approximately 11,900 records (unique Lot Numbers). The analysis was focused on Pfizer (4522 lot numbers) and Moderna (5510 lot numbers) since J&J vaccine was not very widely distributed in the US.

The Control Dataset:

For comparison, we have created a similar dataset by pulling all available lot numbers for all VAERS reports filed for all seasonal flu vaccines. The dataset contained a total of 494 records.

Limitation of the Analysis:

We did not have the information about the lot sizes for any of the datasets.

Results:

Our analysis revealed two findings for covid vaccines from both Pfizer and Moderna:

- Finding 1: Highly significant differences in all adverse event reports (AE Reports) and deaths reports (Deaths) exist among different lot numbers (Lots):
 - Small but very distinct portion of lots have unusually high AE Reports and Deaths
- Finding 2: Lots with high AE Reports and Deaths numbers were split and sent to many US states (13-50), while the vast majority of lots went to a few states (fewer than 13).

In contrast, the variability lot-to-lot in the flu vaccine data was much lower (range of reports per lot was 1-26, while for Pfizer the range was 1-3563, and for Moderna 1-4967. Geographically, the flu vaccine lots (control data) were distributed to a few states (only 2 lots of 494 went to 12 states, and 219 – to 1 state).

These results indicate unusually high variability in the adverse event and deaths reporting from covid vaccines associated with specific lot numbers. This requires further investigation.

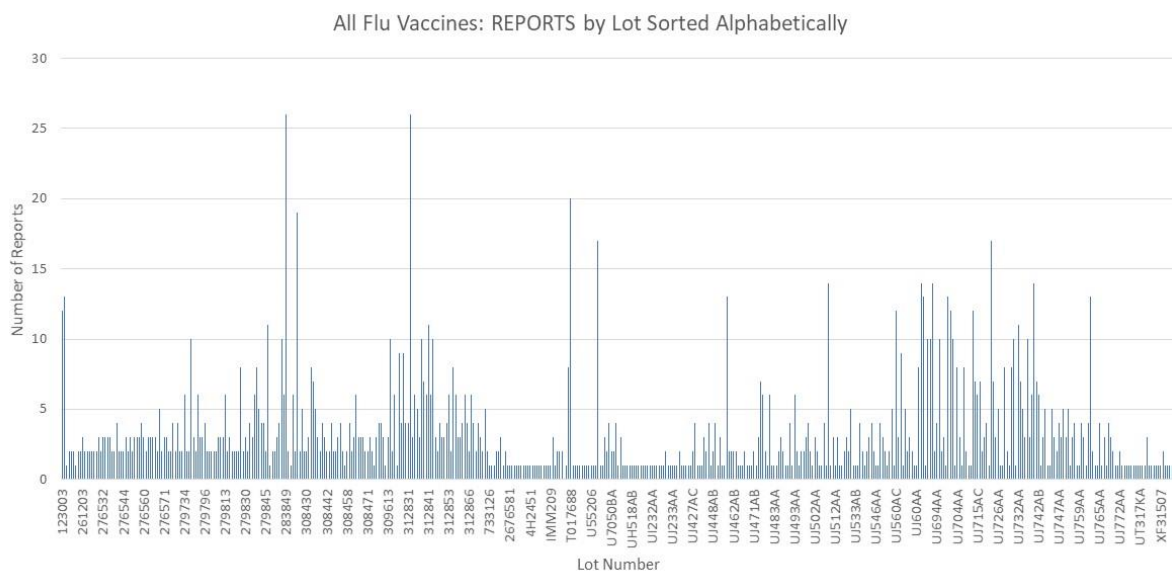
Charts:

1. Control Dataset – Flu Vaccine Adverse Event Reports for All Manufacturers, summary statistics

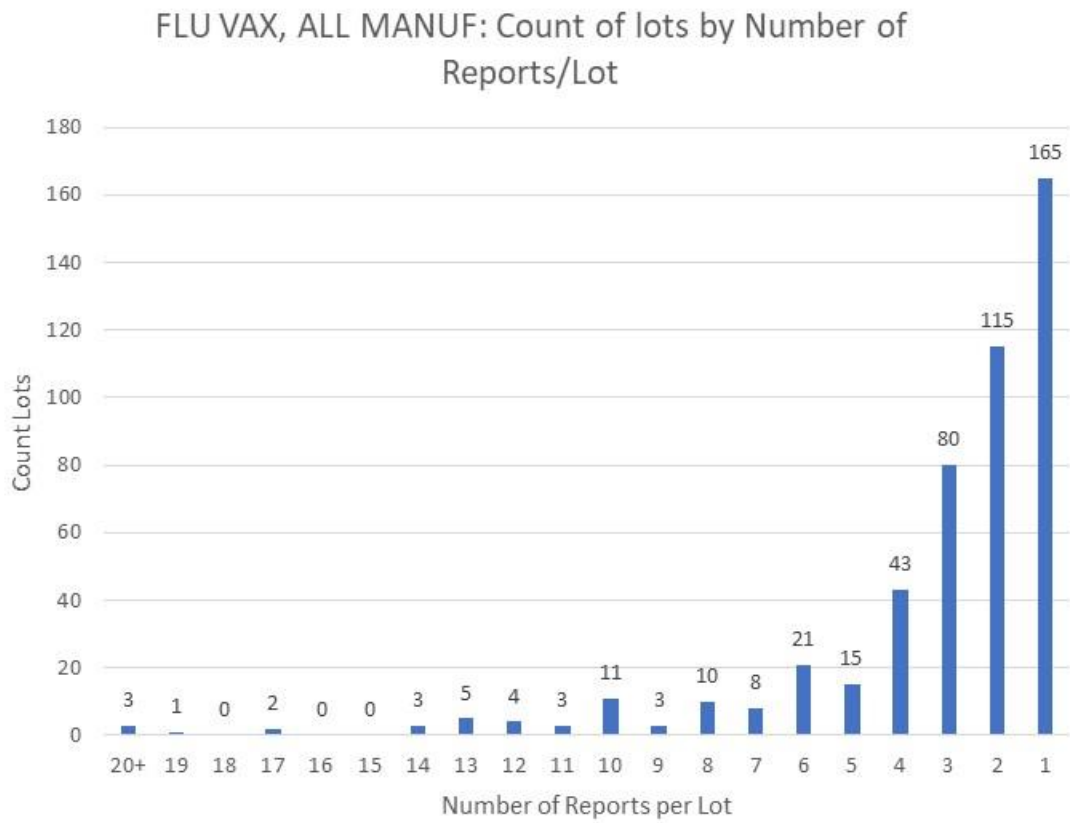
	AE REPORTS	DEATHS	HOSPITAL
Total	1,608	15	73
Average/lot	3	0	0
st dev	3	0	0
Median/lot	2	-	-
min/lot	-	-	-
max/lot	26	2	3
Total Count of Lot Numbers		494	

CONTROL DATASET – FLU VACCINES

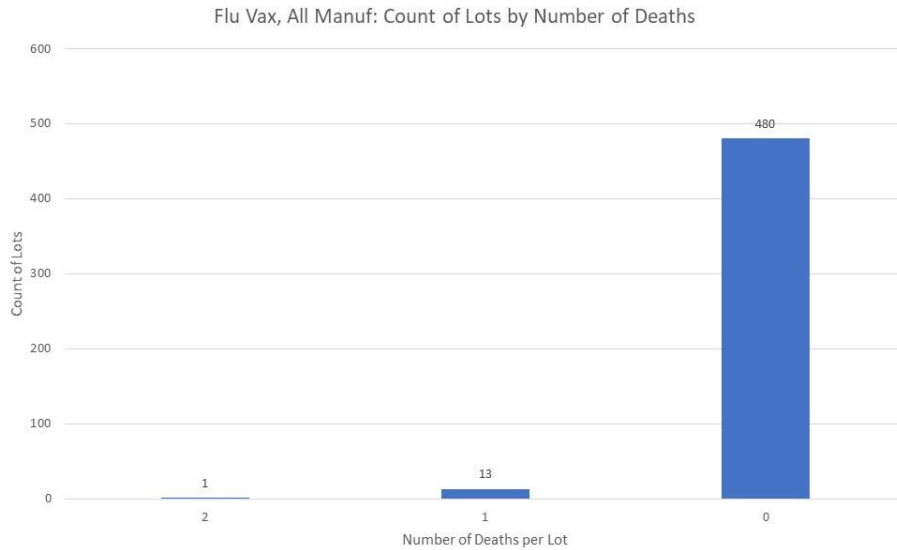
2. Control Dataset – Variation of Adverse Event Reports by lot for all flu vaccines



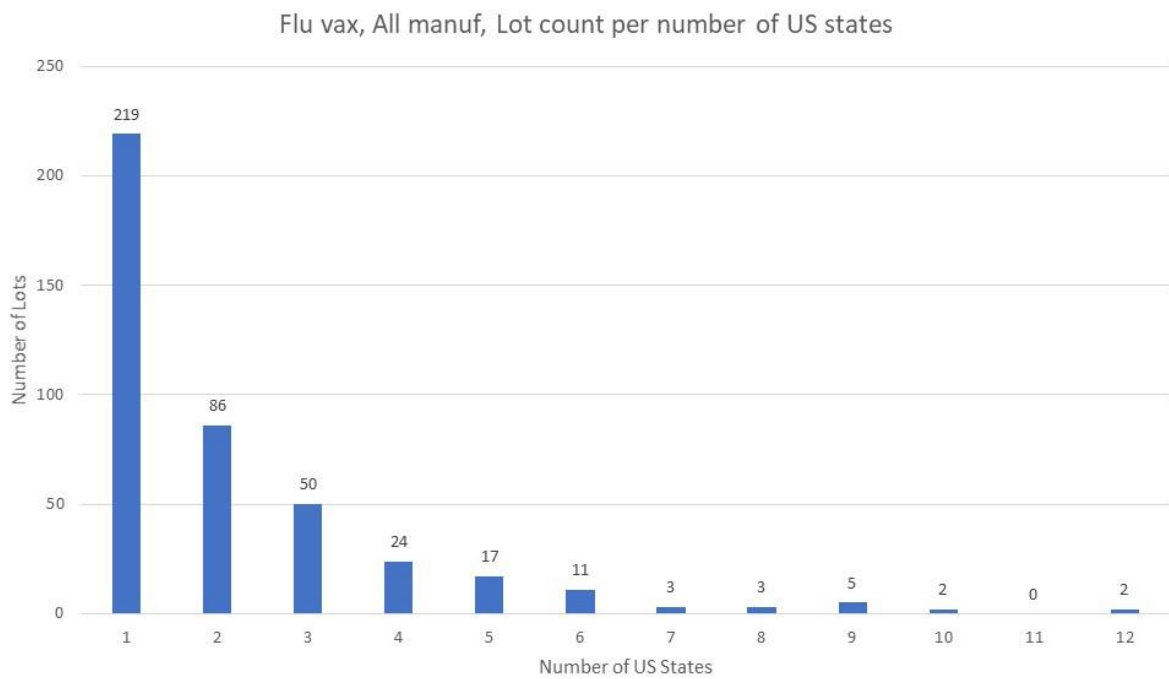
3. Control Dataset – Flu Vaccine Adverse Event Reports by Lot



4. Control Dataset – Flu Vaccines: Number of Lots by Deaths/Lot



5. Control Dataset, Flu Vaccines – No lots sent to greater than 12 states

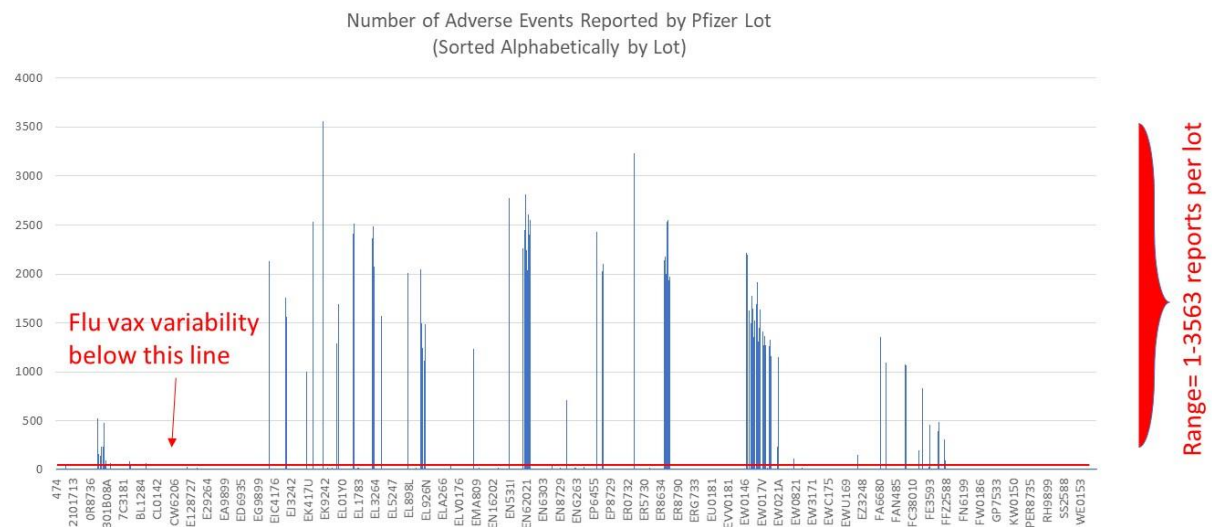


RESULTS FOR COVID VACCINES

6. Covid Vaccines: Pfizer Dataset – Summary Statistics

	AE REPORTS	DEATHS	HOSPITALIZED
Total	171,463	2,828	14,262
Average/lot	38	1	3
st dev	257	6	24
median/lot	1	-	-
min/lot	1	-	-
max/lot	3,563	113	413
Total Count of Lots	4522		

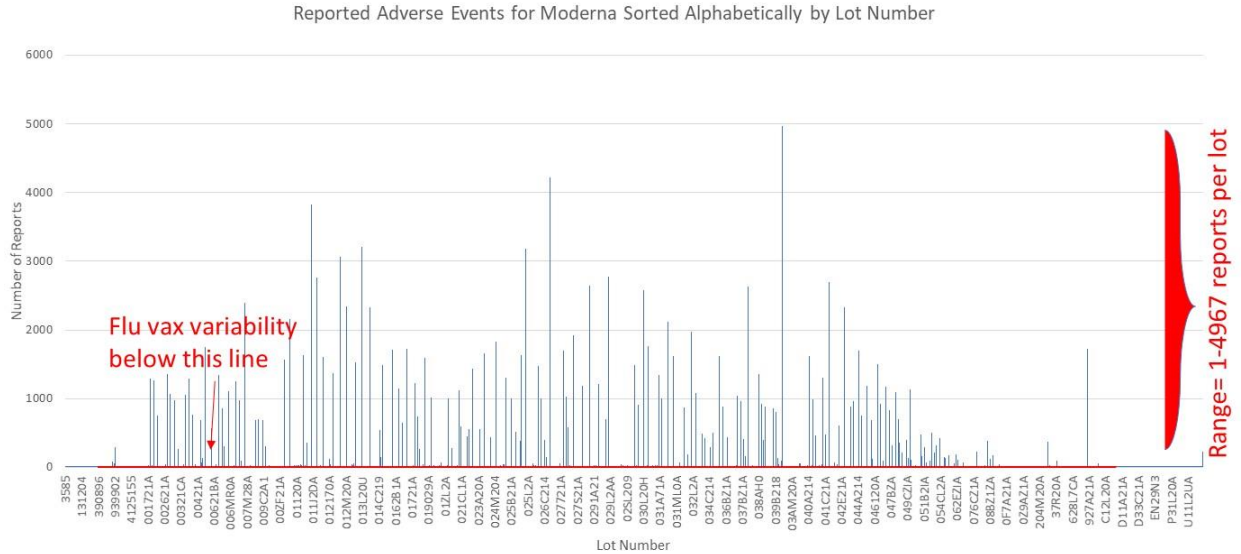
7. Pfizer Dataset – Unusually High Variation of AE Reports by Lot Number



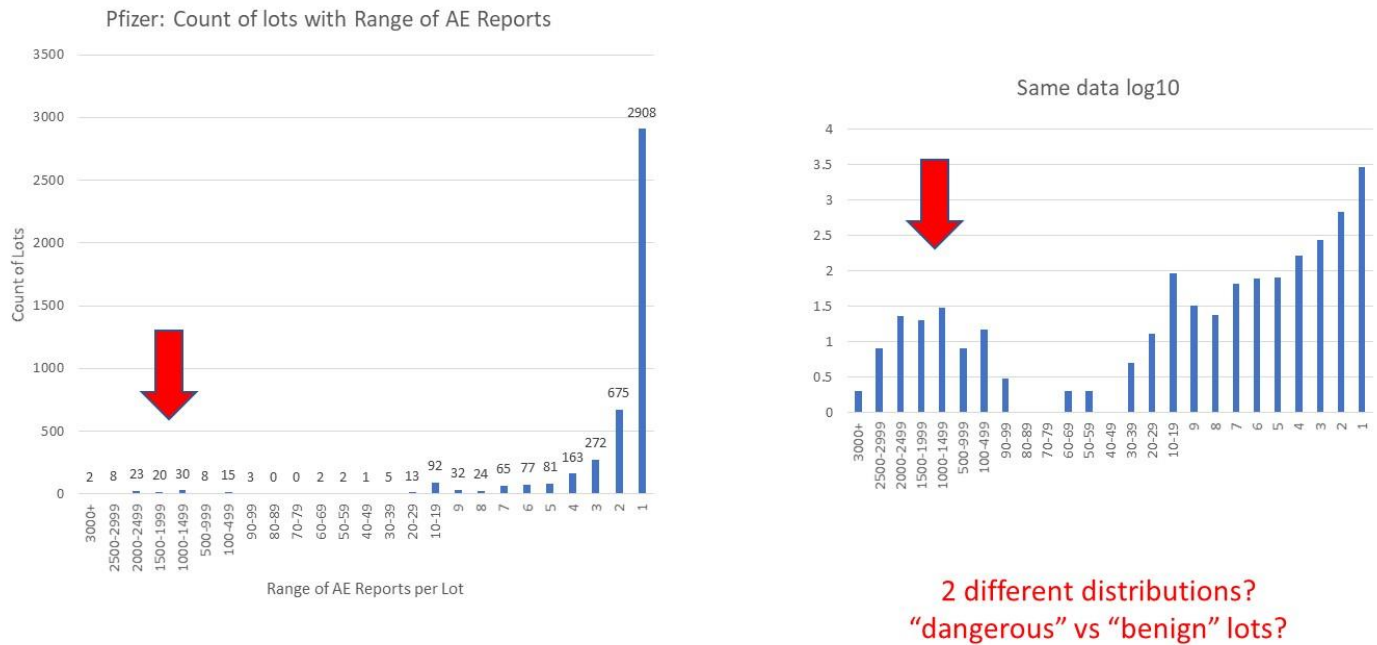
8. Covid Vaccines: Moderna Dataset Summary Statistics

	AE REPORTS	DEATHS	HOSPITALIZED
Total	188,998	2,603	10,225
Average	34	0	2
st dev	231	4	13
median	1	-	-
min/lot	1	-	-
max/lot	4,967	94	193
Total Count of Lots	5,510		

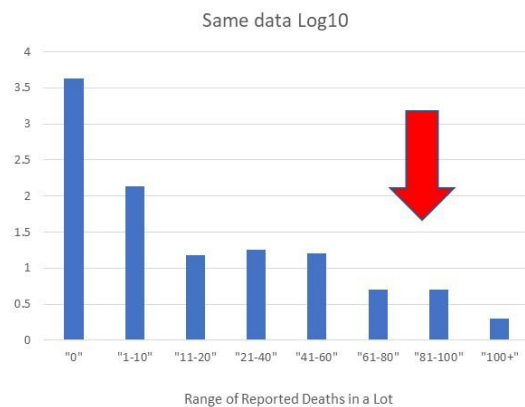
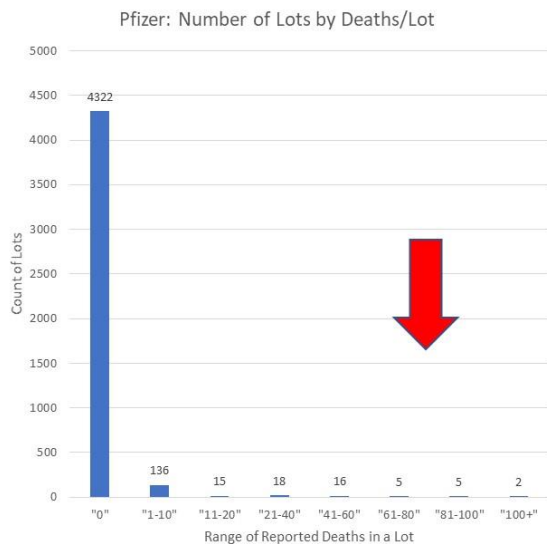
9. Moderna Dataset – Unusually High Variation of Reports by Lot



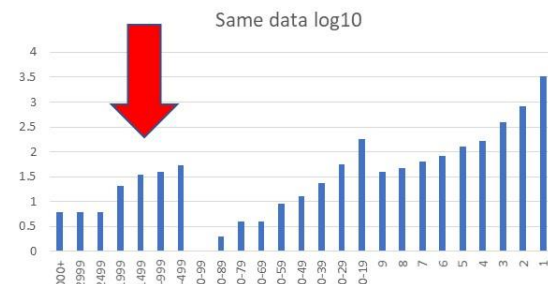
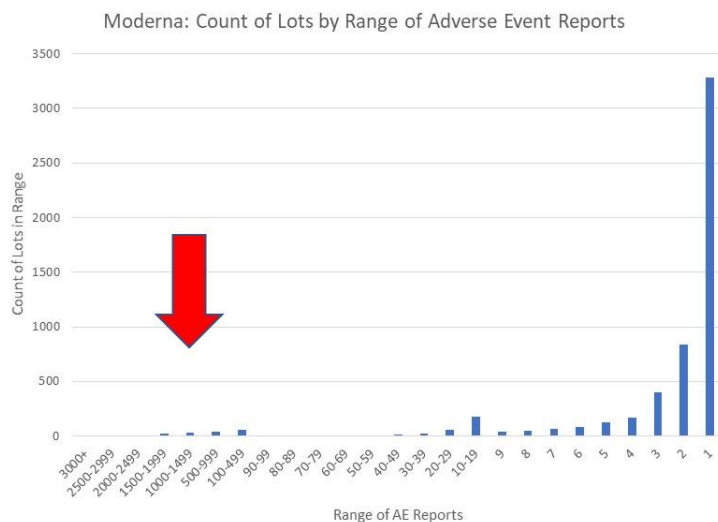
10. Finding 1: Pfizer – Some lots associated with very high AE Reports per Lot



11. Finding 1: Pfizer – Some lots associated with very high Deaths per lot

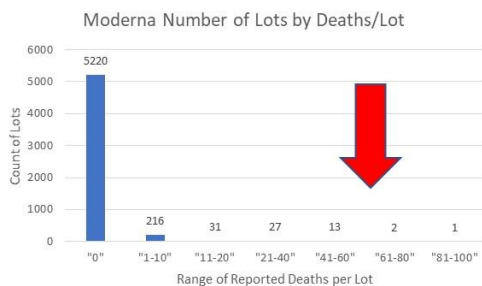


12. Finding 1: Moderna – Some lots associated with very high AE Reports per lot



2 different distributions?
"dangerous" vs "benign" lots?

13. Finding 1: Moderna – Some lots associated with very high Deaths per Lot



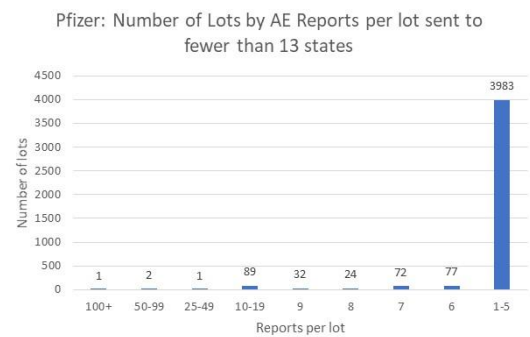
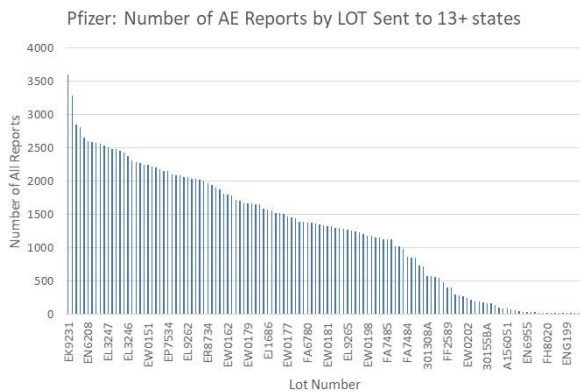
14. Finding 2: Pfizer Lots sent to 13-50 states Have Unusually High AE Reports and Deaths

Lots Sent to 13-50 states*					Lots Sent to <13 states**				
	AE REPORTS	DEATHS	HOSPITAL	STATES		AE REPORTS	DEATHS	HOSPITAL	STATES
Total	166,170	2,799	14,155		Total	9,141	99	657	
Average/lot	1,278	22	109	42	Average/lot	2	0	0	2
st dev	893	26	101	12	st dev	3	0	1	2
median	1,331	9	90	47	median	1	-	-	1
Min/lot	18	-	-	13	min/lot	1	-	-	1
Max/lot	3,598	114	420	57	max/lot	118	2	20	12
Total Count of Lots		130			Total Count of Lots		4,289		

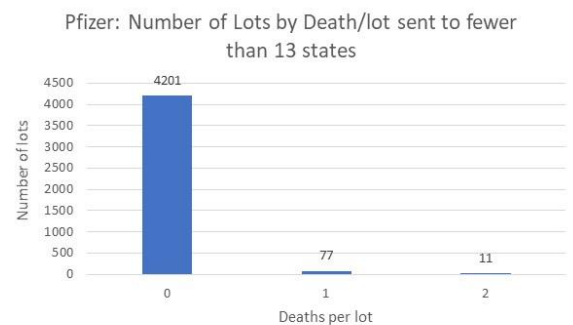
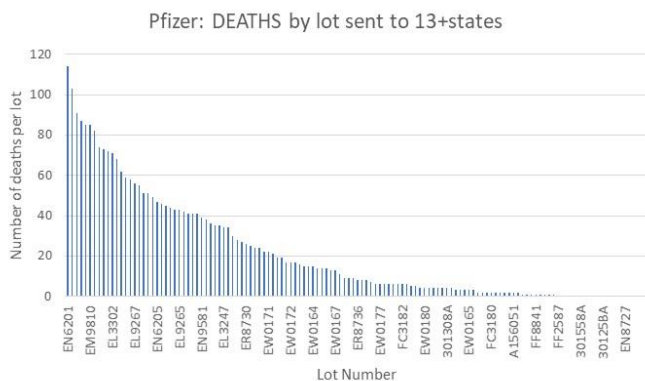
*Note max number of states =57 due to mistyped state names in VAERS

**12 state cut off was chosen based on the highest #states/lot from flu vaccine dataset

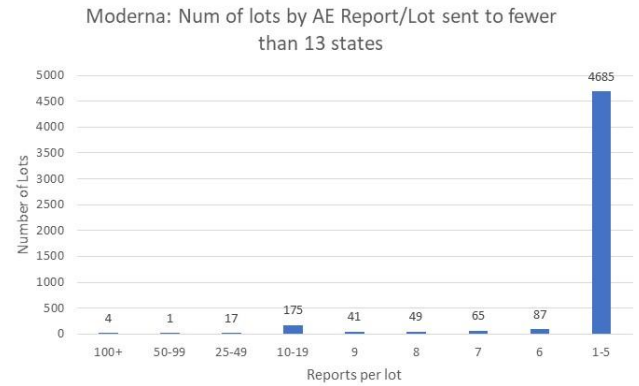
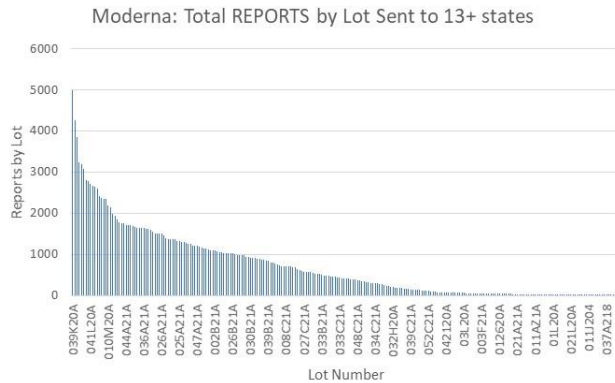
15. Finding 2: Pfizer – Unusually High AE Reports from Lots that went to 13-50 states



16. Finding 2: Pfizer – Unusually High Deaths from Lots sent to 13-50 States



17. Finding 2: Moderna – Unusually High AE Reports from Lots sent to 13-50 States



18. Finding 2: Moderna – Unusually High Deaths from Lots sent to 13-50 States

