Disproportionate Effects with COVID-19 Vaccines

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DATA SOURCE

[VAERS Nov 11th Downloadable files (vaersaware.com)](#)

METHOD

1. **RAW DATASET**

    All of the vaccine adverse events records over the last 32 years were compiled into a single dataset.

    The dataset contained 2 columns

1	Vaccine name
2	Symptom

    The dataset had 8,685,997 rows, each row recording a symptom and the associated vaccine. There were a total of 16575 unique symptoms and 98 different vaccines

    This dataset can be downloaded here – https://howbad.info/vaxsym.zip (67.3 Mb)

2. **GROUPED DATASETS**

    BY VACCINE : This dataset was then grouped by vaccine, so you can select a vaccine column and see the frequency of every symptom with that vaccine.

    This dataset can be downloaded here – https://howbad.info/grouped-by-vaccine.zip (1.6 M)

    BY SYMPTOM : This dataset groups the data by symptom. You can also select a symptom column, and rank all the vaccines associated with that symptom in order of highest symptom frequency.

    This dataset can be downloaded here - https://howbad.info/grouped-by-symptoms.zip (1.2M)

3. **TECHNICAL DETAILS**

    Full technical details of how the dataset was read, pre-processed and grouped can be found here – https://howbad.info/technical-prr.pdf

4. **METRIC**

    The metric used to compare vaccines is PROPORTION.

    1. A symptom occurs with a frequency that is disproportionately high for one vaccine compared to another
    2. the samples of both vaccines are of equal size
    3. disproportion is consistent across many samples

    This metric is called the PRR ratio. You can read more background information about this ratio here – [prr7.pdf (howbad.info)](#) and [covid-vs-flu2.pdf (howbad.info)](#).

RESULTS

If the PRR ratio is greater than 1, then it is a safety signal.

Thrombosis Safety Signals

VAX_TYPE	Thrombosis
COVID19	9.317497532
EBZR	4.56214126
MER	1.846060997
6VAX-F	0.993500753
UNK	0.828471506
HPV4	0.572608238
COVID19-2	0.403862872
HEPAB	0.372547745
ANTH	0.323189654
RUB	0.284667046
FLUR4	0.282654115
FLUX(H1N1)	0.265041887
FLUC3	0.251455147
IPV	0.223397944
HPV9	0.206571735
FLUN(H1N1)	0.199931516
FLUA3	0.18970467
FLUA4	0.181061455
HPVX	0.177651495
HPV2	0.173925755
FLUN4	0.160721795
FLUX	0.132490444
MEN	0.131828239
LYME	0.131352749

Myocarditis Safety Signals

VAX_TYPE	Myocarditis
COVID19	13.92251651
SMALL	4.725110996
TDAPIPV	1.64830256
MU	1.496781596
UNK	0.443571099
MEN	0.325243213
IPV	0.27555316
HEPAB	0.262518369
MEA	0.258785342
HPV9	0.183994471
COVID19-2	0.181026698
FLUA3	0.175484449
SMALLMNK	0.155111915
FLUC3	0.155067119
FLUX	0.153239547
RAB	0.140250169
FLUC4	0.119123186
MNQ	0.113208013
DTAPIPV	0.104256187
FLUR4	0.087144691
TDAP	0.086689036
HEP	0.085538545
YF	0.07271262
ANTH	0.072415019
TD	0.071405039

Menstrual Safety Signals

VAX_TYPE	Menstrual disorder
COVID19	7.318829289
EBZR	6.309896501
HPV2	2.464954068
HPVX	1.722903412
HPV4	1.372762112
UNK	0.870207831
DF	0.638894509
COVID19-2	0.609682119
HPV9	0.444882506
HEP	0.122855805
ANTH	0.12182156
HEPAB	0.073565792
FLUC4	0.066780554
FLUX	0.057210424
MNQ	0.042304433
FLU4	0.033502684
HEPA	0.033438355
MMR	0.025426071
PPV	0.014571839
VARCEL	0.01171032
FLU3	0.004340007

Cancer Safety Signals

VAX_TYPE	Breast cancer
COVID19	4.327175744
HEPAB	3.324066846
LYME	2.04561382
HPV2	1.81068161
HEP	1.231101244
HPV4	0.692089416
FLUX	0.516723113
FLU3	0.494911902
PPV	0.329168241
VARZOS	0.075650007

Autoimmune Safety Signals for COVID 19 only

SYMPTOM	COVID19
Autoimmune myositis	10.10652233
Autoimmune demyelinating disease	4.195160213
Autoimmune arthritis	3.527748361
Autoimmune dermatitis	2.669647408
Autoimmune pancreatitis	2.517096128
Autoimmune colitis	2.288269207
Autoimmune eye disorder	2.288269207
Latent autoimmune diabetes in adults	1.906891006
Autoimmune haemolytic anaemia	1.827067661
Autoimmune thyroid disorder	1.471030204
Autoimmune hepatitis	1.439809838
Autoimmune thyroiditis	1.203460101
Autoimmune neuropathy	1.144134603

Thrombosis Safety Signals for COVID 19 vaccines only

Venous thrombosis limb	66.89373648
Cerebral venous sinus thrombosis	41.76091303
Retinal vascular thrombosis	39.66333292
Superior sagittal sinus thrombosis	33.1799035
Cerebral artery thrombosis	32.7985253
Superficial vein thrombosis	32.48071013
Peripheral artery thrombosis	29.74749969
Jugular vein thrombosis	29.55681059
Aortic thrombosis	28.98474329
Ophthalmic vein thrombosis	25.29808734
Pulmonary artery thrombosis	22.11993567
Mesenteric vein thrombosis	18.59218731
Deep vein thrombosis	17.01287674
Transverse sinus thrombosis	14.49237164
Atrial thrombosis	14.11099344
Coronary artery thrombosis	13.88216652
Pulmonary thrombosis	13.46123799
Cerebral thrombosis	12.88210813
Arterial thrombosis	12.20410244
Portal vein thrombosis	12.16172708
Retinal vein thrombosis	11.11445043
Carotid artery thrombosis	11.05996783
Cerebral venous thrombosis	10.15052751
Vascular stent thrombosis	9.91583323
Basilar artery thrombosis	9.72514413

Myocarditis Safety Signals for COVID 19 vaccines only

SYMPTOM	COVID19
Myocarditis	13.92251651
Viral myocarditis	6.025775578
Myocarditis infectious	3.051025609
Myocarditis septic	1.144134603
Chronic myocarditis	0.762756402
Eosinophilic myocarditis	0.520061183

Menstrual Safety Signals for COVID 19 vaccines only

SYMPTOM	COVID19
Abnormal menstrual clots	inf
Menstrual headache	inf
Heavy menstrual bleeding	60.09849895
Intermenstrual bleeding	53.61895006
Premenstrual pain	49.76985525
Premenstrual syndrome	24.72024158
Menstrual discomfort	16.20857355
Menstrual cycle management	9.91583323
Menstrual disorder	7.318829289
Premenstrual dysphoric disorder	4.004471112
Premenstrual headache	1.906891006

Cancer Safety Signals for COVID 19 vaccines only

SYMPTOM	COVID19
Breast cancer recurrent	10.67858963
Breast cancer metastatic	6.864807621
Hepatic cancer	6.67411852
Triple negative breast cancer	6.48342942
Lung cancer metastatic	5.911362118
Cancer screening	5.720673017
Colon cancer metastatic	5.720673017
Colorectal cancer	5.339294816
Breast cancer	4.327175744
Renal cancer	4.32228628
Testis cancer	4.004471112
Endometrial cancer	3.623092911
Prostate cancer metastatic	3.051025609
Recurrent cancer	2.860336509
Colon cancer	2.593371768
Papillary thyroid cancer	2.542521341
Bone cancer	2.415395274
Prostate cancer	2.288269207
Non-small cell lung cancer stage IV	2.288269207
Renal cancer metastatic	2.288269207
Hepatic cancer metastatic	2.288269207
Bladder cancer	1.906891006
Rectal cancer	1.652638872
Cancer pain	1.525512805
Fallopian tube cancer	1.144134603
Oesophageal cancer metastatic	1.144134603

Tremor Safety Signals for COVID 19 vaccines only

SYMPTOM	COVID19
Action tremor	inf
Dystonic tremor	inf
Laryngeal tremor	inf
Parkinsonian rest tremor	inf
Tremor neonatal	inf
Resting tremor	1.983166646
Intention tremor	1.253099804

Paralysis Safety Signals for COVID 19 vaccines only

SYMPTOM	COVID19
Oculofacial paralysis	4.195160213
Facial paralysis	3.249613075
Peripheral paralysis	3.15999081
Hypoglossal nerve paralysis	1.716201905
Cranial nerve paralysis	1.487374985
IVth nerve paralysis	1.207697637

Amyloid Safety Signals for COVID 19 vaccines only

SYMPTOM	COVID19
Amyloid related imaging abnormalities	inf
Amyloid related imaging abnormality-micro	inf
Amyloid related imaging abnormality-oeder	inf
Amyloidosis senile	inf
Cardiac amyloidosis	inf
Primary amyloidosis	inf
Pulmonary amyloidosis	inf
Cerebral amyloid angiopathy	6.102051219
Amyloidosis	3.559529877
Serum amyloid A protein	3.051025609

INTERNAL CONSISTENCY OF PRR

It might be thought that the higher PRR for Thrombosis following COVID 19 vaccination is simply because there are many more records for COVID 19.

In order to investigate the effect of dataset size, I compared the FLU3 vaccine with the COVID vaccine. I randomly chose 20000 COVID19 records to compare with 20000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

Thrombosis Comparison   (COVID19 vs FLU, n = 20000)
Here are the PRR ratios between COVID19 and FLU3 for the symptom of Thrombosis

41.00   Counts = 41 | 1
8.25   Counts = 33 | 4
6.33   Counts = 38 | 6
28.00   Counts = 28 | 1
34.00   Counts = 34 | 1
4.57   Counts = 32 | 7
35.00   Counts = 35 | 1
25.00   Counts = 25 | 1
12.00   Counts = 24 | 2
17.00   Counts = 34 | 2
9.67   Counts = 29 | 3
25.00   Counts = 25 | 1
35.00   Counts = 35 | 1
24.00   Counts = 24 | 1
7.50   Counts = 30 | 4
12.50   Counts = 25 | 2
6.50   Counts = 26 | 4
11.33   Counts = 34 | 3
7.60   Counts = 38 | 5
inf   Counts = 38 | 0
inf   Counts = 31 | 0
17.00   Counts = 34 | 2
16.00   Counts = 32 | 2
29.00   Counts = 29 | 1
12.67   Counts = 38 | 3
21.00   Counts = 42 | 2
10.00   Counts = 30 | 3
15.00   Counts = 30 | 2
15.50   Counts = 31 | 2
12.50   Counts = 25 | 2
15.50   Counts = 31 | 2
5.75   Counts = 23 | 4
7.25   Counts = 29 | 4
6.75   Counts = 27 | 4

8.00   Counts = 32 | 4
inf   Counts = 29 | 0
6.80   Counts = 34 | 5
30.00   Counts = 30 | 1
13.50   Counts = 27 | 2
13.00   Counts = 39 | 3
15.00   Counts = 30 | 2
4.60   Counts = 23 | 5
14.50   Counts = 29 | 2
17.50   Counts = 35 | 2
5.14   Counts = 36 | 7
16.50   Counts = 33 | 2
14.00   Counts = 28 | 2
10.67   Counts = 32 | 3
9.33   Counts = 28 | 3
31.00   Counts = 31 | 1
6.00   Counts = 24 | 4
30.00   Counts = 30 | 1
16.00   Counts = 32 | 2
26.00   Counts = 26 | 1
34.00   Counts = 34 | 1
inf   Counts = 40 | 0
27.00   Counts = 27 | 1
6.75   Counts = 27 | 4
9.33   Counts = 28 | 3
38.00   Counts = 38 | 1
7.00   Counts = 28 | 4
43.00   Counts = 43 | 1
3.14   Counts = 22 | 7
5.83   Counts = 35 | 6
6.25   Counts = 25 | 4
14.50   Counts = 29 | 2
7.40   Counts = 37 | 5
28.00   Counts = 28 | 1

9.33   Counts = 28 | 3
10.33   Counts = 31 | 3
17.00   Counts = 34 | 2
6.00   Counts = 24 | 4
10.33   Counts = 31 | 3
14.50   Counts = 29 | 2
30.00   Counts = 30 | 1
11.33   Counts = 34 | 3
9.25   Counts = 37 | 4
43.00   Counts = 43 | 1
6.00   Counts = 24 | 4
30.00   Counts = 30 | 1
11.00   Counts = 33 | 3
8.60   Counts = 43 | 5
19.50   Counts = 39 | 2
12.67   Counts = 38 | 3
10.67   Counts = 32 | 3
7.25   Counts = 29 | 4
8.75   Counts = 35 | 4
7.50   Counts = 30 | 4
29.00   Counts = 29 | 1
10.67   Counts = 32 | 3
5.50   Counts = 33 | 6
15.50   Counts = 31 | 2
9.00   Counts = 27 | 3
13.50   Counts = 27 | 2
19.50   Counts = 39 | 2
31.00   Counts = 31 | 1
6.50   Counts = 26 | 4
11.67   Counts = 35 | 3
6.50   Counts = 26 | 4
5.25   Counts = 21 | 4

As you can see, the number of cases of thrombosis is consistently higher for COVID19 vaccines compared to FLU3 vaccine. So thrombosis is occurring at a disproportionate rate after COVID19 vaccine compared to FLU3 vaccine.

Headache Comparison   (COVID19 vs FLU, n = 2000)

I randomly chose 2000 COVID19 records to compare with 2000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

The COVID-19 reports consistently record a higher incidence of headaches

2.06	Counts = 66 | 32		1.97	Counts = 63 | 32		1.04	Counts = 48 | 46
1.43	Counts = 67 | 47		1.60	Counts = 67 | 42		1.18	Counts = 66 | 56
1.82	Counts = 62 | 34		1.28	Counts = 60 | 47		1.73	Counts = 76 | 44
1.37	Counts = 70 | 51		1.69	Counts = 76 | 45		1.41	Counts = 62 | 44
1.59	Counts = 51 | 32		1.62	Counts = 68 | 42		1.91	Counts = 82 | 43
1.55	Counts = 65 | 42		1.78	Counts = 66 | 37		1.43	Counts = 63 | 44
1.62	Counts = 76 | 47		1.51	Counts = 68 | 45		1.49	Counts = 61 | 41
1.22	Counts = 67 | 55		1.77	Counts = 71 | 40		1.88	Counts = 77 | 41
1.56	Counts = 67 | 43		1.42	Counts = 61 | 43		1.90	Counts = 74 | 39
1.44	Counts = 65 | 45		1.86	Counts = 78 | 42		1.07	Counts = 64 | 60
1.74	Counts = 73 | 42		1.48	Counts = 71 | 48		1.11	Counts = 51 | 46
1.33	Counts = 52 | 39		1.02	Counts = 53 | 52		2.88	Counts = 72 | 25
1.65	Counts = 76 | 46		1.20	Counts = 60 | 50		1.27	Counts = 52 | 41
1.75	Counts = 63 | 36		1.67	Counts = 80 | 48		1.64	Counts = 59 | 36
2.13	Counts = 83 | 39		1.63	Counts = 67 | 41		1.84	Counts = 70 | 38
1.72	Counts = 79 | 46		1.21	Counts = 63 | 52		1.97	Counts = 67 | 34
1.92	Counts = 71 | 37		1.35	Counts = 65 | 48		1.41	Counts = 55 | 39
1.87	Counts = 73 | 39		1.76	Counts = 74 | 42		1.48	Counts = 62 | 42
1.66	Counts = 78 | 47		2.24	Counts = 83 | 37		1.90	Counts = 76 | 40
1.56	Counts = 61 | 39		1.52	Counts = 61 | 40		2.32	Counts = 79 | 34
1.30	Counts = 57 | 44		2.22	Counts = 71 | 32		1.57	Counts = 66 | 42
1.73	Counts = 71 | 41		1.12	Counts = 57 | 51		1.19	Counts = 63 | 53
1.73	Counts = 64 | 37		1.39	Counts = 68 | 49		2.19	Counts = 79 | 36
1.29	Counts = 66 | 51		1.69	Counts = 61 | 36		1.42	Counts = 68 | 48
1.59	Counts = 65 | 41		1.49	Counts = 70 | 47		1.55	Counts = 59 | 38
2.00	Counts = 72 | 36		2.07	Counts = 58 | 28		1.20	Counts = 59 | 49
1.88	Counts = 60 | 32		1.30	Counts = 60 | 46		1.54	Counts = 63 | 41
1.95	Counts = 74 | 38		1.43	Counts = 70 | 49		1.88	Counts = 77 | 41
1.08	Counts = 54 | 50		2.06	Counts = 68 | 33		1.71	Counts = 70 | 41
1.48	Counts = 59 | 40		1.47	Counts = 66 | 45		1.60	Counts = 64 | 40
1.26	Counts = 48 | 38		1.53	Counts = 69 | 45		1.88	Counts = 60 | 32
1.70	Counts = 63 | 37		1.50	Counts = 69 | 46		1.95	Counts = 72 | 37
1.79	Counts = 70 | 39		1.43	Counts = 67 | 47			
1.59	Counts = 65 | 41		1.26	Counts = 58 | 46			

- The first number is the PRR ratio
- The counts are the number of recorded instances of the symptom for COVID19 | FLU vaccines

Fatigue Comparison   (COVID19 vs FLU, n = 2000)

I randomly chose 2000 COVID19 records to compare with 2000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

2.67 Counts = 48 | 18	3.39 Counts = 61 | 18	2.50 Counts = 50 | 20
2.08 Counts = 50 | 24	2.59 Counts = 70 | 27	2.46 Counts = 59 | 24
2.90 Counts = 58 | 20	2.41 Counts = 65 | 27	2.55 Counts = 51 | 20
3.05 Counts = 64 | 21	2.60 Counts = 65 | 25	3.39 Counts = 61 | 18
3.67 Counts = 66 | 18	4.83 Counts = 58 | 12	3.12 Counts = 50 | 16
2.63 Counts = 50 | 19	3.94 Counts = 67 | 17	3.37 Counts = 64 | 19
2.67 Counts = 56 | 21	2.63 Counts = 79 | 30	2.60 Counts = 65 | 25
3.94 Counts = 63 | 16	2.37 Counts = 64 | 27	3.18 Counts = 70 | 22
2.21 Counts = 53 | 24	1.79 Counts = 52 | 29	3.80 Counts = 57 | 15
2.79 Counts = 53 | 19	1.85 Counts = 61 | 33	2.15 Counts = 43 | 20
2.22 Counts = 60 | 27	3.42 Counts = 65 | 19	3.11 Counts = 56 | 18
3.40 Counts = 68 | 20	2.88 Counts = 46 | 16	5.69 Counts = 74 | 13
2.81 Counts = 45 | 16	2.21 Counts = 64 | 29	3.00 Counts = 42 | 14
2.46 Counts = 69 | 28	2.65 Counts = 53 | 20	4.14 Counts = 58 | 14
2.13 Counts = 49 | 23	1.92 Counts = 50 | 26	3.81 Counts = 61 | 16
2.58 Counts = 62 | 24	2.91 Counts = 64 | 22	2.89 Counts = 52 | 18
3.09 Counts = 68 | 22	2.65 Counts = 53 | 20	2.78 Counts = 64 | 23
2.29 Counts = 48 | 21	1.91 Counts = 44 | 23	3.00 Counts = 57 | 19
2.85 Counts = 57 | 20	3.29 Counts = 69 | 21	2.67 Counts = 56 | 21
3.61 Counts = 65 | 18	4.00 Counts = 52 | 13	3.10 Counts = 62 | 20
3.28 Counts = 59 | 18	2.07 Counts = 58 | 28	2.86 Counts = 60 | 21
2.62 Counts = 55 | 21	2.65 Counts = 61 | 23	1.88 Counts = 49 | 26
2.50 Counts = 55 | 22	1.65 Counts = 43 | 26	2.86 Counts = 63 | 22
2.57 Counts = 59 | 23	3.55 Counts = 71 | 20	3.10 Counts = 65 | 21
2.45 Counts = 54 | 22	2.67 Counts = 64 | 24	3.47 Counts = 59 | 17
2.86 Counts = 63 | 22	3.18 Counts = 54 | 17	2.58 Counts = 62 | 24
5.36 Counts = 59 | 11	3.56 Counts = 64 | 18	3.81 Counts = 61 | 16
2.11 Counts = 59 | 28	3.10 Counts = 65 | 21	4.12 Counts = 66 | 16
2.21 Counts = 53 | 24	2.94 Counts = 50 | 17	2.83 Counts = 68 | 24
2.82 Counts = 62 | 22	3.38 Counts = 54 | 16	2.50 Counts = 60 | 24
3.05 Counts = 58 | 19	3.24 Counts = 68 | 21	2.61 Counts = 60 | 23
2.83 Counts = 51 | 18	2.95 Counts = 59 | 20	4.43 Counts = 62 | 14
1.91 Counts = 44 | 23	2.95 Counts = 59 | 20	
2.50 Counts = 60 | 24	3.42 Counts = 65 | 19	

- The first number is the PRR ratio
- The counts are the number of recorded instances of the symptom for COVID19 | FLU vaccines

Pyrexia (Temperature) Comparison   (COVID19 vs FLU, n = 2000)

I randomly chose 2000 COVID19 records to compare with 2000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

0.93	Counts = 56 | 60	0.96	Counts = 47 | 49	0.87	Counts = 54 | 62
0.73	Counts = 56 | 77	1.02	Counts = 55 | 54	0.77	Counts = 44 | 57
0.90	Counts = 47 | 52	0.78	Counts = 47 | 60	1.39	Counts = 61 | 44
0.89	Counts = 57 | 64	0.73	Counts = 45 | 62	1.50	Counts = 60 | 40
0.71	Counts = 44 | 62	0.95	Counts = 52 | 55	1.04	Counts = 54 | 52
1.20	Counts = 60 | 50	0.82	Counts = 49 | 60	1.10	Counts = 57 | 52
1.11	Counts = 62 | 56	1.20	Counts = 72 | 60	1.00	Counts = 49 | 49
1.13	Counts = 60 | 53	0.90	Counts = 64 | 71	0.97	Counts = 57 | 59
1.02	Counts = 56 | 55	1.19	Counts = 56 | 47	1.06	Counts = 51 | 48
1.04	Counts = 57 | 55	0.75	Counts = 52 | 69	0.82	Counts = 53 | 65
0.78	Counts = 46 | 59	0.90	Counts = 53 | 59	1.13	Counts = 59 | 52
1.04	Counts = 53 | 51	0.86	Counts = 56 | 65	1.12	Counts = 56 | 50
1.12	Counts = 58 | 52	1.30	Counts = 70 | 54	0.93	Counts = 50 | 54
0.81	Counts = 42 | 52	0.96	Counts = 51 | 53	1.05	Counts = 60 | 57
0.89	Counts = 42 | 47	1.12	Counts = 56 | 50	0.98	Counts = 50 | 51
1.08	Counts = 54 | 50	0.84	Counts = 51 | 61	1.19	Counts = 62 | 52
0.76	Counts = 44 | 58	1.30	Counts = 65 | 50	0.78	Counts = 51 | 65
1.27	Counts = 65 | 51	0.96	Counts = 53 | 55	1.17	Counts = 69 | 59
0.92	Counts = 56 | 61	1.04	Counts = 57 | 55	0.93	Counts = 50 | 54
0.69	Counts = 47 | 68	0.86	Counts = 51 | 59	0.82	Counts = 47 | 57
0.67	Counts = 50 | 75	0.81	Counts = 51 | 63	1.11	Counts = 59 | 53
1.02	Counts = 48 | 47	0.77	Counts = 41 | 53	1.24	Counts = 62 | 50
1.61	Counts = 66 | 41	1.06	Counts = 55 | 52	0.76	Counts = 53 | 70
1.02	Counts = 59 | 58	0.98	Counts = 57 | 58	0.94	Counts = 65 | 69
1.13	Counts = 59 | 52	1.29	Counts = 62 | 48	0.77	Counts = 47 | 61
1.09	Counts = 50 | 46	0.58	Counts = 43 | 74	1.22	Counts = 67 | 55
1.05	Counts = 58 | 55	0.83	Counts = 58 | 70	0.88	Counts = 50 | 57
0.80	Counts = 47 | 59	0.79	Counts = 53 | 67	0.93	Counts = 55 | 59
0.98	Counts = 57 | 58	0.85	Counts = 51 | 60	0.86	Counts = 54 | 63
1.00	Counts = 54 | 54	1.23	Counts = 54 | 44	1.05	Counts = 67 | 64
0.77	Counts = 48 | 62	0.87	Counts = 52 | 60	0.95	Counts = 59 | 62
0.88	Counts = 57 | 65	0.66	Counts = 37 | 56	1.11	Counts = 61 | 55
1.00	Counts = 57 | 57	1.00	Counts = 64 | 64		
0.66	Counts = 37 | 56	1.13	Counts = 53 | 47		

- The first number is the PRR ratio
- The counts are the number of recorded instances of the symptom for COVID19 | FLU vaccines

Whilst there is no difference in pyrexia, there is a significant difference in headache, fatigue. If the COVID19 vaccine effects the blood, could this result in fatigue and headache? Could a reduction in circulation of oxygen result in these symptoms?

Abnormal Blood Pressure Comparison   (COVID19 vs FLU, n = 40000)

I randomly chose 40000 COVID19 records to compare with 40000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

2.00 Counts = 12 | 6	1.80 Counts = 9 | 5	1.67 Counts = 5 | 3
2.00 Counts = 6 | 3	1.67 Counts = 5 | 3	4.00 Counts = 8 | 2
5.00 Counts = 10 | 2	0.86 Counts = 6 | 7	2.33 Counts = 7 | 3
1.50 Counts = 6 | 4	1.67 Counts = 5 | 3	1.60 Counts = 8 | 5
1.25 Counts = 5 | 4	1.67 Counts = 5 | 3	10.00 Counts = 10 | 1
5.00 Counts = 5 | 1	1.60 Counts = 8 | 5	1.00 Counts = 5 | 5
1.25 Counts = 5 | 4	1.50 Counts = 3 | 2	2.50 Counts = 5 | 2
4.00 Counts = 8 | 2	0.75 Counts = 3 | 4	3.00 Counts = 6 | 2
3.00 Counts = 9 | 3	1.25 Counts = 5 | 4	inf Counts = 5 | 0
2.00 Counts = 6 | 3	3.50 Counts = 7 | 2	2.00 Counts = 8 | 4
3.67 Counts = 11 | 3	2.33 Counts = 7 | 3	3.00 Counts = 12 | 4
1.50 Counts = 3 | 2	2.00 Counts = 6 | 3	5.00 Counts = 10 | 2
5.00 Counts = 10 | 2	2.33 Counts = 7 | 3	1.33 Counts = 4 | 3
2.00 Counts = 8 | 4	3.00 Counts = 9 | 3	2.00 Counts = 6 | 3
4.33 Counts = 13 | 3	2.33 Counts = 7 | 3	3.00 Counts = 6 | 2
11.00 Counts = 11 | 1	7.00 Counts = 7 | 1	2.67 Counts = 8 | 3
4.50 Counts = 9 | 2	7.00 Counts = 7 | 1	4.33 Counts = 13 | 3
3.00 Counts = 9 | 3	2.50 Counts = 5 | 2	3.50 Counts = 7 | 2
2.00 Counts = 8 | 4	3.50 Counts = 7 | 2	2.00 Counts = 4 | 2
2.67 Counts = 8 | 3	inf Counts = 6 | 0	1.00 Counts = 4 | 4
1.40 Counts = 7 | 5	inf Counts = 9 | 0	1.67 Counts = 10 | 6
1.75 Counts = 7 | 4	inf Counts = 12 | 0	2.17 Counts = 13 | 6
2.00 Counts = 6 | 3	3.00 Counts = 6 | 2	6.00 Counts = 6 | 1
0.67 Counts = 2 | 3	2.50 Counts = 10 | 4	2.00 Counts = 8 | 4
2.00 Counts = 4 | 2	7.00 Counts = 7 | 1	1.40 Counts = 7 | 5
2.00 Counts = 6 | 3	3.50 Counts = 7 | 2	1.80 Counts = 9 | 5
0.57 Counts = 4 | 7	3.00 Counts = 9 | 3	2.60 Counts = 13 | 5
1.00 Counts = 6 | 6	0.86 Counts = 6 | 7	2.67 Counts = 8 | 3
2.75 Counts = 11 | 4	6.00 Counts = 12 | 2	6.00 Counts = 6 | 1
3.00 Counts = 6 | 2	0.50 Counts = 2 | 4	1.33 Counts = 4 | 3
1.43 Counts = 10 | 7	3.00 Counts = 9 | 3	1.33 Counts = 4 | 3
10.00 Counts = 10 | 1	2.33 Counts = 7 | 3	1.00 Counts = 6 | 6
0.75 Counts = 3 | 4	2.00 Counts = 2 | 1	
2.33 Counts = 7 | 3	inf Counts = 8 | 0	

- The first number is the PRR ratio
- The counts are the number of recorded instances of the symptom for COVID19 | FLU vaccines

Chest Pain Comparison   (COVID19 vs FLU, n = 1000)

I randomly chose 1000 COVID19 records to compare with 1000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

1.75	Counts = 7 | 4	2.50	Counts = 10 | 4	0.50	Counts = 4 | 8
2.67	Counts = 8 | 3	1.67	Counts = 5 | 3	1.33	Counts = 8 | 6
2.20	Counts = 11 | 5	0.67	Counts = 2 | 3	4.25	Counts = 17 | 4
1.17	Counts = 7 | 6	2.25	Counts = 9 | 4	1.67	Counts = 10 | 6
1.14	Counts = 8 | 7	1.29	Counts = 9 | 7	1.25	Counts = 5 | 4
1.00	Counts = 6 | 6	3.33	Counts = 10 | 3	2.75	Counts = 11 | 4
5.00	Counts = 5 | 1	2.67	Counts = 8 | 3	inf	Counts = 8 | 0
1.12	Counts = 9 | 8	2.00	Counts = 6 | 3	3.33	Counts = 10 | 3
1.25	Counts = 10 | 8	3.00	Counts = 12 | 4	1.86	Counts = 13 | 7
1.83	Counts = 11 | 6	2.60	Counts = 13 | 5	6.00	Counts = 6 | 1
1.25	Counts = 10 | 8	4.50	Counts = 9 | 2	2.40	Counts = 12 | 5
2.00	Counts = 6 | 3	3.00	Counts = 3 | 1	2.00	Counts = 10 | 5
3.00	Counts = 12 | 4	7.00	Counts = 7 | 1	5.00	Counts = 10 | 2
2.33	Counts = 7 | 3	0.83	Counts = 5 | 6	2.20	Counts = 11 | 5
11.00	Counts = 11 | 1	2.33	Counts = 7 | 3	1.25	Counts = 5 | 4
1.11	Counts = 10 | 9	2.50	Counts = 10 | 4	3.00	Counts = 9 | 3
1.43	Counts = 10 | 7	1.25	Counts = 5 | 4	2.00	Counts = 8 | 4
1.75	Counts = 7 | 4	1.50	Counts = 6 | 4	2.00	Counts = 10 | 5
5.50	Counts = 11 | 2	1.50	Counts = 6 | 4	1.14	Counts = 8 | 7
1.29	Counts = 9 | 7	0.86	Counts = 6 | 7	0.91	Counts = 10 | 11
0.75	Counts = 3 | 4	2.50	Counts = 5 | 2	1.00	Counts = 7 | 7
3.00	Counts = 9 | 3	2.40	Counts = 12 | 5	6.00	Counts = 12 | 2
0.75	Counts = 3 | 4	2.00	Counts = 10 | 5	3.00	Counts = 6 | 2
1.17	Counts = 7 | 6	1.60	Counts = 8 | 5	0.80	Counts = 8 | 10
2.00	Counts = 6 | 3	1.60	Counts = 8 | 5	3.25	Counts = 13 | 4
5.00	Counts = 5 | 1	0.43	Counts = 3 | 7	6.50	Counts = 13 | 2
3.33	Counts = 10 | 3	2.80	Counts = 14 | 5	1.43	Counts = 10 | 7
1.75	Counts = 7 | 4	0.62	Counts = 5 | 8	3.00	Counts = 9 | 3
2.33	Counts = 7 | 3	2.00	Counts = 6 | 3	1.67	Counts = 10 | 6
3.67	Counts = 11 | 3	1.17	Counts = 7 | 6	1.40	Counts = 7 | 5
1.75	Counts = 7 | 4	1.75	Counts = 7 | 4	14.00	Counts = 14 | 1
1.80	Counts = 9 | 5	1.00	Counts = 4 | 4	0.62	Counts = 5 | 8
5.33	Counts = 16 | 3	0.60	Counts = 3 | 5		
0.71	Counts = 5 | 7	3.50	Counts = 7 | 2		

- The first number is the PRR ratio
- The counts are the number of recorded instances of the symptom for COVID19 | FLU vaccines

Chest pain is an indicator of heart damage.

The differences in adverse effects between COVID19 and FLU3 vaccines are CONSISTENT across hundreds of samples, indicating that the differences are a real phenomenon.

Myocarditis Comparison COVID19 vs FLU   (COVID19 vs FLU, n = 40000)

I randomly chose 40000 COVID19 records to compare with 40000 FLU3 records. So we had 2 datasets of exactly the same size. I did this 100 times.

15.33 Counts = 92 | 6	21.80 Counts = 109 | 5	55.00 Counts = 110 | 2
inf Counts = 91 | 0	54.50 Counts = 109 | 2	27.00 Counts = 81 | 3
25.00 Counts = 100 | 4	19.40 Counts = 97 | 5	105.00 Counts = 105 | 1
30.33 Counts = 91 | 3	96.00 Counts = 96 | 1	19.60 Counts = 98 | 5
56.00 Counts = 112 | 2	19.00 Counts = 95 | 5	44.00 Counts = 88 | 2
13.17 Counts = 79 | 6	33.67 Counts = 101 | 3	24.00 Counts = 120 | 5
36.00 Counts = 108 | 3	50.00 Counts = 100 | 2	23.50 Counts = 94 | 4
36.67 Counts = 110 | 3	39.67 Counts = 119 | 3	39.00 Counts = 117 | 3
22.00 Counts = 88 | 4	45.00 Counts = 90 | 2	21.00 Counts = 84 | 4
105.00 Counts = 105 | 1	21.80 Counts = 109 | 5	19.67 Counts = 118 | 6
49.00 Counts = 98 | 2	16.00 Counts = 112 | 7	26.00 Counts = 104 | 4
11.86 Counts = 83 | 7	22.00 Counts = 110 | 5	16.83 Counts = 101 | 6
95.00 Counts = 95 | 1	32.33 Counts = 97 | 3	32.00 Counts = 96 | 3
14.14 Counts = 99 | 7	15.80 Counts = 79 | 5	45.00 Counts = 90 | 2
20.40 Counts = 102 | 5	26.50 Counts = 106 | 4	36.33 Counts = 109 | 3
56.50 Counts = 113 | 2	36.67 Counts = 110 | 3	47.00 Counts = 94 | 2
18.20 Counts = 91 | 5	inf Counts = 98 | 0	38.67 Counts = 116 | 3
32.00 Counts = 96 | 3	49.50 Counts = 99 | 2	28.33 Counts = 85 | 3
35.33 Counts = 106 | 3	90.00 Counts = 90 | 1	39.67 Counts = 119 | 3
25.50 Counts = 102 | 4	52.50 Counts = 105 | 2	22.75 Counts = 91 | 4
36.00 Counts = 108 | 3	25.00 Counts = 75 | 3	49.50 Counts = 99 | 2
36.00 Counts = 108 | 3	20.25 Counts = 81 | 4	38.33 Counts = 115 | 3
58.50 Counts = 117 | 2	19.25 Counts = 77 | 4	28.00 Counts = 84 | 3
47.00 Counts = 94 | 2	50.50 Counts = 101 | 2	112.00 Counts = 112 | 1
25.50 Counts = 102 | 4	23.00 Counts = 92 | 4	inf Counts = 90 | 0
52.50 Counts = 105 | 2	inf Counts = 80 | 0	48.50 Counts = 97 | 2
86.00 Counts = 86 | 1	21.80 Counts = 109 | 5	52.00 Counts = 104 | 2
30.33 Counts = 91 | 3	110.00 Counts = 110 | 1	14.29 Counts = 100 | 7
28.25 Counts = 113 | 4	26.00 Counts = 104 | 4	112.00 Counts = 112 | 1
37.67 Counts = 113 | 3	48.00 Counts = 96 | 2	91.00 Counts = 91 | 1
21.20 Counts = 106 | 5	22.80 Counts = 114 | 5	57.00 Counts = 114 | 2
48.50 Counts = 97 | 2	116.00 Counts = 116 | 1	107.00 Counts = 107 | 1
33.00 Counts = 99 | 3	31.67 Counts = 95 | 3	
27.25 Counts = 109 | 4	25.50 Counts = 102 | 4	

- The first number is the PRR ratio
- The counts are the number of recorded instances of the symptom for COVID19 | FLU vaccines

Myocarditis Comparison   (COVID19 vs SMALLPOX, n = 1000)

I randomly chose 1000 COVID19 vaccine records to compare with 1000 SMALLPOX vaccine records. So we had 2 datasets of exactly the same size. I did this 100 times.

```
0.18    Counts =  2  |  11        0.40    Counts =  4  |  10
0.60    Counts =  3  |  5         1.00    Counts =  7  |  7
0.42    Counts =  5  |  12        0.50    Counts =  8  |  16
0.30    Counts =  3  |  10        0.27    Counts =  3  |  11
0.33    Counts =  3  |  9         0.30    Counts =  3  |  10
0.38    Counts =  3  |  8         0.38    Counts =  3  |  8
0.33    Counts =  2  |  6         0.67    Counts =  2  |  3
0.21    Counts =  3  |  14        0.22    Counts =  2  |  9
0.38    Counts =  5  |  13        0.17    Counts =  1  |  6
0.50    Counts =  4  |  8         0.57    Counts =  4  |  7
0.20    Counts =  1  |  5         0.14    Counts =  1  |  7
0.30    Counts =  3  |  10        0.17    Counts =  1  |  6
0.33    Counts =  2  |  6         0.18    Counts =  2  |  11
0.42    Counts =  5  |  12        0.43    Counts =  3  |  7
0.08    Counts =  1  |  12        0.44    Counts =  4  |  9
0.30    Counts =  3  |  10        0.40    Counts =  4  |  10
0.23    Counts =  3  |  13        0.44    Counts =  4  |  9
0.40    Counts =  2  |  5         0.07    Counts =  1  |  15
0.40    Counts =  4  |  10        0.56    Counts =  5  |  9
0.44    Counts =  4  |  9         0.60    Counts =  3  |  5
0.42    Counts =  5  |  12        0.17    Counts =  1  |  6
0.62    Counts =  5  |  8         0.25    Counts =  2  |  8
0.00    Counts =  0  |  7         0.62    Counts =  5  |  8
0.09    Counts =  1  |  11        0.27    Counts =  3  |  11
0.46    Counts =  6  |  13        0.08    Counts =  1  |  13
0.40    Counts =  2  |  5         0.22    Counts =  2  |  9
0.09    Counts =  1  |  11        0.40    Counts =  2  |  5
0.17    Counts =  1  |  6         0.15    Counts =  2  |  13
0.18    Counts =  2  |  11        0.17    Counts =  2  |  12
0.50    Counts =  3  |  6         0.08    Counts =  1  |  12
0.60    Counts =  3  |  5         0.40    Counts =  4  |  10
0.11    Counts =  1  |  9         0.30    Counts =  3  |  10
0.27    Counts =  3  |  11        0.33    Counts =  2  |  6
0.80    Counts =  4  |  5         0.75    Counts =  3  |  4
0.25    Counts =  1  |  4         0.45    Counts =  5  |  11
0.75    Counts =  6  |  8         0.43    Counts =  3  |  7
0.55    Counts =  6  |  11        0.08    Counts =  1  |  12
0.14    Counts =  1  |  7         0.57    Counts =  4  |  7
0.09    Counts =  1  |  11        0.20    Counts =  1  |  5
0.33    Counts =  3  |  9         0.33    Counts =  2  |  6
0.33    Counts =  2  |  6         0.33    Counts =  4  |  12
0.25    Counts =  2  |  8         0.30    Counts =  3  |  10
0.44    Counts =  4  |  9         0.38    Counts =  3  |  8
0.17    Counts =  2  |  12        0.00    Counts =  0  |  10
0.33    Counts =  3  |  9         0.56    Counts =  5  |  9
0.00    Counts =  0  |  12        0.80    Counts =  4  |  5
0.38    Counts =  3  |  8         0.18    Counts =  2  |  11
0.60    Counts =  3  |  5         0.00    Counts =  0  |  8
0.62    Counts =  5  |  8         0.29    Counts =  2  |  7
0.29    Counts =  2  |  7         0.27    Counts =  3  |  11
```

SMALLPOX vaccine consistently causes higher levels of myocarditis compared to the COVID19 vaccine. This has been confirmed clinically, were >10% of those receiving the SMALLPOX vaccine developed symptoms consistent with heart damage.