

Do Any Vaccines Cause Autism ?

An investigation of PRR safety signals for 100 different vaccines

by Craig Paardekooper

Introduction :

The CDC ([Data & Statistics on Autism Spectrum Disorder | CDC](#)) estimates that 1 in 36 children now has autism - up from 1 in 110 in 2006. If this is the case, then 2.7% of children have autism . There are 2 billion children in the world , so 2.7% equates to 54 million autistic children . 1 in 6, or 17% of children now suffer developmental disability – that's 340 million children.

- About 1 in 36 children has been identified with autism spectrum disorder (ASD) according to estimates from CDC's Autism and Developmental Disabilities Monitoring (ADDM) Network. [\[Read article\]](#)
- ASD is reported to occur in all racial, ethnic, and socioeconomic groups. [\[Read article\]](#)
- ASD is nearly 4 times more common among boys than among girls. [\[Read article\]](#)
- About 1 in 6 (17%) children aged 3–17 years were diagnosed with a developmental disability, as reported by parents, during a study period of 2009-2017. These included autism, attention-deficit/hyperactivity disorder, blindness, and cerebral palsy, among others. [\[Read summary\]](#)

If the increase in autism is caused by certain vaccines being administered to infants then we can greatly reduce this morbidity by identifying those harmful vaccines.

The CDC and EMA detect a safety signal when a symptom occurs with a disproportionately high incidence for a drug, when compared to the incidence of the symptom for all drugs in the database. This is called Proportional Reporting Ratio. Simply put -

$$PRR = \frac{\text{rate of incidence of symptom per 100 reports for drug A}}{\text{rate of incidence of symptom per 100 reports for all other drugs.}}$$

Safety Signal : PRR >= 2

Data Source :

<https://howbad.info/safety-signal-datasets.zip>

Method :

33 years of VAERS data from 1990 till 2023 were combined into a single dataset, consisting of two columns – vaccine and symptom. There were 9,020,372 rows of data, 16,849 unique symptoms, and 99 different vaccines. The number of records for each vaccine is shown in Appendix B.

The Proportional Reporting Ratios (PRR) were calculated for each symptom for each vaccine. Nothing like this has been done before – where safety signal calculations have been applied to every symptom of every vaccine – enabling rapid comparison. The PRR ratio reveals where any symptom is occurring at a rate that is disproportionately high.

The resulting spreadsheets are available as downloadable excel files, and as csv files (see above). You are strongly advised to consult these files when investigating any vaccine.

A search was made for symptoms associated with autism –

- | | | |
|-----------------------------|------------------------|-------------------------------|
| 1. Autism | 4. Repetitive behavior | 8. Attention Deficit Disorder |
| 2. Autism spectrum disorder | 5. Emotional disorder | 9. Intellectual disability |
| 3. Broad autism phenotype | 6. Emotional poverty | 10. Learning disability |
| | 7. Aspergers | 11. Learning disorder |

The aim was to see which vaccines are associated with a disproportionally high incidence of these symptoms as measured by PRR ratio.

Results

VACCINE	Autism
MNC	408.05
MMR	231.08
DTPIPV	158.66
PER	44.66
DTAPH	43.55
HBHEPB	35.75
OPV	33.81
MU	31.84
PNC	16.52
MEA	13.79
DTP	13.52
DTAPHEPBIP	12.81
HIBV	10.09
DTAP	8.85
HEP	6.37
IPV	6.15
RUB	5.61
DT	5.23
MEN	2.51
DTPHIB	2.34
MMRV	2.20
HEPA	1.37
VARCEL	1.16
UNK	0.92
FLUN(H1N1)	0.66
TTOX	0.63

VACCINE	Emotional disorder
EBZR	69.34813294
HPVX	9.519437955
HPV2	7.667122771
MEA	6.378962141
MMR	4.615277574
DTAP	3.583438965
IPV	3.156580782
HPV4	2.506765834
DTAPIPV	2.310900258
HPV9	2.273544824
FLUA4	2.208370387
FLU(H1N1)	2.183779364
RAB	2.032501302

VACCINE	Emotional poverty
DTAPIPVHIB	31.97082491
DTP	31.92320473
MMR	18.02842802
MNQ	9.88875836
HPV9	7.307822648
FLU4	5.363985477
PNC13	5.287384167
HEP	1.884984571
HPV4	1.881515045
FLU3	1.083697716
COVID19	0.424561873

VACCINE	Asperger's disorder
MMR	187.4956514
IPV	63.13161563
DTP	56.33506718
DTAP	14.16512344
HEP	7.068692142
HPV4	3.320320668

VACCINE	Autism spectrum disorder
DTPIHI	343.24
DTPIPV	198.62
DTIPV	89.17
MMR	71.34
6VAX-F	57.16
DTAPIPVHIB	13.47
DTAP	13.38
MMRV	13.20
MEA	12.07
DTAPIPV	8.80
RUB	8.19
DTP	8.03
HEP	7.85
DTAPHEPBIP	6.99
HEPA	6.12
IPV	5.98
DT	5.73
PNC13	5.45
PNC	4.83
MEN	3.66
UNK	3.28
MENB	3.09
FLUA3	2.73
HPVX	2.55
HPV2	2.51
RV1	2.41

VACCINE	Attention deficit hyperactivity disorder
DTAPHEPBIP	22.48
MENB	4.98
TDAP	3.68
MMR	3.44
DTAP	2.15
HPV9	1.96
COVID19	1.65
FLUX	1.52
PNC13	1.42
VARCEL	0.77
FLU4	0.69
COVID19-2	0.67
HEP	0.50
HPV4	0.50
VARZOS	0.21

VACCINE	Attention deficit/hyperactivity disorder
PER	992.53
DTPIPV	495.18
MEA	60.33
DTAPIPV	33.67
MMR	32.99
HPVX	25.86
FLUN3	15.40
TTOX	13.92
DTP	13.30
HPV4	11.10
MMRV	10.81
UNK	8.40
PNC	8.01
HEPAB	7.48
DTAP	6.78
TDAP	5.81
ANTH	4.20
HPV2	4.17
HEP	4.16
VARCEL	2.43
FLU4	2.19
FLU3	1.88

VACCINE	Intellectual disability
6VAX-F	142.52
MEA	60.33
DTP	26.98
DTAPIPVHIB	13.32
HPVX	12.75
MMR	8.40
PNC	8.01
DTAP	6.78
UNK	6.21
HIBV	6.19
PNC13	4.47
HPV2	4.17
MENB	3.84
TDAP	2.82
HPV4	1.59
FLUX	1.17
HEP	0.79
PPV	0.75
VARZOS	0.67
COVID19	0.51

VACCINE	Broad autism phenotype
MMR	inf
DTPIHI	0
DTPIPV	0
DTIPV	0

VACCINE	Repetitive speech
MEA	80.44580033
MMR	18.3419659
DTAPIPVHIB	17.76156939
FLUN3	10.12318058
DTAP	9.087060318
MNQ	5.493754644
HPV4	4.427094224
HPV9	4.059901471
TDAP	1.854822283
FLU4	1.440329434
COVID19	0.597040134
DTPIHI	0
DTPIPV	0
DTIPV	0

VACCINE	Intelligence test abnormal
HPV2	224.9398519
DTAPIPVHIB	159.8541245
HPV9	36.53911324
TDAP	16.69340055
FLU4	12.9629649
6VAX-F	0
MEA	0
DTP	0

VACCINE	Learning disability
PER	749.68
HPV2	42.85
DTP	41.64
MMR	27.87
HPVX	19.53
HEP	13.05
FLUN3	11.63
DTAP	10.47
RAB	9.79
ANTH	6.44
FLU(H1N1)	6.29
HPV4	5.13
UNK	3.08
TDAP	2.13
COVID19	0.06

VACCINE	Learning disorder
PER	482.67
HPV2	118.84
DTP	26.60
IPV	14.70
HPV4	14.35
MMR	12.98
HPVX	12.57
DTAPIPV	10.76
MENB	7.67
MMRV	5.26
FLUX	4.83
HEP	3.23
UNK	1.99
TDAP	1.37
FLU3	0.45
COVID19	0.06

Statistical Significance

The table below shows results for **AUTISM**

- **Autism** : number of **AUTISM** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **AUTISM** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYP	Autism	A + B	C	C + D	PRR	S	LCI
MMR	1124	95204	456	8925168	231.0802	0.055426	207.2922528
DTPIPV	7	253	1573	9020119	158.6577	0.373551	76.29361858
MNC	1	14	1579	9020358	408.0502	0.963953	61.68514411
HBHEPB	5	801	1575	9019571	35.74726	0.446527	14.89880197
DTAPH	3	394	1577	9019978	43.55107	0.575699	14.091395
OPV	4	677	1576	9019695	33.81481	0.499157	12.71207053
PNC	44	15616	1536	9004756	16.51823	0.15269	12.24592096
PER	2	256	1578	9020116	44.65758	0.704789	11.21932569
DTP	22	9409	1558	9010963	13.52331	0.214453	8.882537712
MU	2	359	1578	9020013	31.84459	0.705584	7.987868454
HIBV	35	20204	1545	9000168	10.09143	0.17079	7.220608766
DTAP	56	37304	1524	8983068	8.848555	0.135965	6.778551146
DTAPHEPBIP	8	3581	1572	9016791	12.81401	0.354058	6.401846127
MEA	5	2076	1575	9018296	13.79071	0.447385	5.738058819
HEP	160	156741	1420	8863631	6.371779	0.083353	5.411393752
IPV	9	8397	1571	9011975	6.148401	0.334108	3.194208838
DT	4	4372	1576	9016000	5.234046	0.500406	1.962834827
RUB	3	3060	1577	9017312	5.605899	0.577616	1.807042419
MMRV	9	23436	1571	8996936	2.199265	0.334223	1.14230293
MEN	3	6835	1577	9013537	2.508686	0.577772	0.808418846
VARCEL	21	103508	1559	8916864	1.16041	0.21966	0.754453816
HEPA	9	37513	1571	8982859	1.371826	0.334247	0.712496189

All of the figures are provided so PRR and LCI can be manually checked.

The incidence of autism with MMR is 231 times greater than the comparator drugs. Even when we take the lower limit of the 95% confidence interval, autism is still 200 times greater than the comparator drugs.

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- MMR
- PNC
- DTP
- HIBV
- DTAP
- DTAPHEPBIP
- MEA
- HEP
- IPV

Note that MMR is associated with at least 17 x the incidence of autism compared to the worst of these.

The table below shows results for **AUTISM SPECTRUM DISORDER**

- **Autism spectrum disorder** : number of **ASD** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **ASD** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Autism spectrum disorder	A + B	C	C + D	PRR	S	LCI
MMR	156	95204	205	8925168	71.34	0.11	57.93
DTPIPV	2	253	359	9020119	198.62	0.71	49.75
DTPIHI	1	73	360	9020299	343.24	0.99	48.87
6VAX-F	2	879	359	9019493	57.16	0.71	14.26
DTIPV	1	281	360	9020091	89.17	1.00	12.57
DTAP	19	37304	342	8983068	13.38	0.24	8.43
MMRV	12	23436	349	8996936	13.20	0.29	7.43
HEP	44	156741	317	8863631	7.85	0.16	5.73
DTAPIPVHIB	5	9395	356	9010977	13.47	0.45	5.57
DTAPIPV	4	11466	357	9008906	8.80	0.50	3.29
HEPA	9	37513	352	8982859	6.12	0.34	3.16
PNC13	12	56511	349	8963861	5.45	0.29	3.07
DTP	3	9409	358	9010963	8.03	0.58	2.58
MEA	1	2076	360	9018296	12.07	1.00	1.70
UNK	8	61811	353	8958561	3.28	0.36	1.63
PNC	3	15616	358	9004756	4.83	0.58	1.55
IPV	2	8397	359	9011975	5.98	0.71	1.49
MENB	4	32541	357	8987831	3.09	0.50	1.16
RUB	1	3060	360	9017312	8.19	1.00	1.15
DTAPHEPBIP	1	3581	360	9016791	6.99	1.00	0.98
HPV2	3	29976	358	8990396	2.51	0.58	0.81
DT	1	4372	360	9016000	5.73	1.00	0.80
FLUX	6	105434	355	8914938	1.43	0.41	0.64
RV1	2	20802	359	8999570	2.41	0.71	0.60
MEN	1	6835	360	9013537	3.66	1.00	0.51
VARCEL	5	103508	356	8916864	1.21	0.45	0.50

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- MMR
- DTAP
- MMRV
- HEP
- DTAPIPVHIB
- DTAPIPV
- HEPA
- PNC13
- DTP

The table below shows results for **ASPERGER'S DISORDER**

- **Aspergers** : number of **ASPERGER'S** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **ASPERGER'S** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Asperger's disorder	A + B	C	C + D	PRR	S	LCI
MMR	12	95204	6	8925168	187.50	0.50	70.4
IPV	1	8397	17	9011975	63.13	1.03	8.40
DTP	1	9409	17	9010963	56.34	1.03	7.50
DTAP	1	37304	17	8983068	14.17	1.03	1.89
HEP	2	156741	16	8863631	7.07	0.75	1.63
HPV4	1	157025	17	8863347	3.32	1.03	0.44
6VAX-F	0	879	18	9019493	0.00	inf	0
ADEN_4_7	0	226	18	9020146	0.00	inf	0
ANTH	0	29721	18	8990651	0.00	inf	0
BCG	0	1721	18	9018651	0.00	inf	0
CEE	0	178	18	9020194	0.00	inf	0
CHOL	0	345	18	9020027	0.00	inf	0
COVID19	0	6452217	18	2568155	0.00	inf	0
COVID19-2	0	118050	18	8902322	0.00	inf	0
DF	0	1888	18	9018484	0.00	inf	0
DPP	0	220	18	9020152	0.00	inf	0
DT	0	4372	18	9016000	0.00	inf	0
DTAPH	0	394	18	9019978	0.00	inf	0
DTAPHEPBIP	0	3581	18	9016791	0.00	inf	0
DTAPIPV	0	11466	18	9008906	0.00	inf	0
DTAPIPVHIB	0	9395	18	9010977	0.00	inf	0
DTIPV	0	281	18	9020091	0.00	inf	0
DTOX	0	117	18	9020255	0.00	inf	0
DTPHEP	0	128	18	9020244	0.00	inf	0
DTPHIB	0	2445	18	9017927	0.00	inf	0
DTPIHI	0	73	18	9020299	0.00	inf	0

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- MMR only

Once again MMR is at the top, followed closely by IPV and DTP, then followed by DTAP and HEP

The table below shows – results for **ATTENTION DEFICIT AND HYPERACTIVITY DISORDER**

There are two symptom columns in the VAERS database with the names “**ATTENTION DEFICIT HYPERACTIVITY DISORDER**” and “**ATTENTION DEFICIT / HYPERACTIVITY DISORDER**”. These are the same symptom, so I combined both columns into one column “**ADH total**” to give the total number of symptoms of ADH for each vaccine.

- **ADH total** : number of **ADH** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **ADH** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	ADH 1	ADH 2	ADH total	A + B	C1	C2	C total	C + D	PRR	S	LCI
MMR	4	19	23	95204	109	54	163	8925168	13.22822	0.222716	8.549119
DTAPIPV	0	3	3	11466	113	70	183	9008906	12.88043	0.581988	4.116535
MEA	0	1	1	2076	113	72	185	9018296	23.48148	1.002459	3.291662
HPVX	0	2	2	9816	113	71	184	9010556	9.977672	0.710868	2.477003
HPV4	1	12	13	157025	112	61	173	8863347	4.241566	0.287571	2.414021
TDAP	4	4	8	89169	109	69	178	8931203	4.501591	0.361395	2.216869
DTAPHEPBIP	1	0	1	3581	112	73	185	9016791	13.61056	1.00256	1.907567
FLUN3	0	2	2	16471	113	71	184	9003901	5.941867	0.710897	1.475012
DTAP	1	2	3	37304	112	71	183	8983068	3.947657	0.58204	1.261528
UNK	0	4	4	61811	113	69	182	8958561	3.185379	0.505449	1.182809
MMRV	0	2	2	23436	113	71	184	8996936	4.172759	0.710909	1.035822
HEP	1	5	6	156741	112	68	180	8863631	1.884985	0.414989	0.835723
TTOX	0	1	1	8990	113	72	185	9011382	5.418262	1.002644	0.759264
MENB	2	0	2	32541	111	73	184	8987831	3.002176	0.710918	0.745231
DTP	0	1	1	9409	113	72	185	9010963	5.176736	1.002646	0.725415
VARCEL	1	2	3	103508	112	71	183	8916864	1.41224	0.582055	0.451287
PNC	0	1	1	15616	113	72	185	9004756	3.116954	1.002667	0.43676
HEPAB	0	1	1	16729	113	72	185	9003643	2.90922	1.002669	0.40765
FLU4	1	2	3	114504	112	71	183	8905868	1.275046	0.582056	0.407446
COVID19	91	0	91	6452217	22	73	95	2568155	0.381268	0.146679	0.286005
FLU3	0	4	4	269177	113	69	182	8751195	0.714526	0.505461	0.265315
ANTH	0	1	1	29721	113	72	185	8990651	1.635144	1.002682	0.229116
FLUX	2	0	2	105434	111	73	184	8914938	0.919073	0.710933	0.228135
HPV2	0	1	1	29976	113	72	185	8990396	1.621188	1.002682	0.227161
HPV9	1	0	1	40958	112	73	185	8979414	1.185052	1.002687	0.166048
PNC13	1	0	1	56511	112	73	185	8963861	0.857414	1.00269	0.120139

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- MMR
- DTAPIPV
- HPV4
- TDAP

Once again, the top positions are held by MMR and DTAP class of vaccines

The table below shows – results for **SPEECH DISORDER**

- **Speech disorder** : number of SPEECH DISORDER symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **SPEECH DISORDER** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Speech Disorder	A + B	C	C + D	PRR	S	LCI
MMR	402	95204	5316	8925168	7.09	0.051624	6.407061
DTP	28	9409	5690	9010963	4.71	0.189166	3.252763
TDAPIPV	2	326	5716	9020046	9.68	0.705058	2.430922
HEP	236	156741	5482	8863631	2.43	0.066432	2.137243
MEA	6	2076	5712	9018296	4.56	0.407872	2.051503
DTAP	49	37304	5669	8983068	2.08	0.143379	1.571491
HPV4	156	157025	5562	8863347	1.58	0.081139	1.350378
DTPHIB	5	2445	5713	9017927	3.23	0.446952	1.344252
FLUX	103	105434	5615	8914938	1.55	0.099384	1.27652
DF	4	1888	5714	9018484	3.34	0.499645	1.25587
DTAPIPV	15	11466	5703	9008906	2.07	0.258369	1.245431
FLU3	229	269177	5489	8751195	1.36	0.067418	1.18846
HPV2	31	29976	5687	8990396	1.63	0.180001	1.14885
RAB	21	19566	5697	9000806	1.70	0.218503	1.104992
YF	10	7810	5708	9012562	2.02	0.316302	1.087606
LYME	15	13252	5703	9007120	1.79	0.258392	1.07732
FLU(H1N1)	28	30404	5690	8989968	1.46	0.18936	1.003892
FLU4	89	114504	5629	8905868	1.23	0.106793	0.997494
HEPAB	17	16729	5701	9003643	1.60	0.242774	0.997225
HBHEPB	2	801	5716	9019571	3.94	0.706347	0.986816
FLUX(H1N1)	11	9854	5707	9010518	1.76	0.301633	0.975813
JEV1	2	824	5716	9019548	3.83	0.706372	0.959223
DTAPHEPBIP	5	3581	5713	9016791	2.20	0.447097	0.917438
DTPIPV	1	253	5717	9020119	6.24	0.998109	0.88169
PER	1	256	5717	9020116	6.16	0.998133	0.871317
TDAP	61	89169	5657	8931203	1.08	0.128681	0.839274

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- MMR
- DTP
- HEP
- MEA

There is a high level of consistency here. The same vaccines are associated with autism, autism spectrum disorder, Aspergers, ADH !

The table below shows – results for **SPEECH DISORDER DEVELOPMENTAL**

- **Speech disorder developmental** : number of **SPEECH DISORDER DEVELOPMENTAL** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **SPEECH DISORDER DEVELOPMENTAL** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Speech disorder developmental	A + B	C	C + D	PRR	S	LCI
DTPIPV	2	253	233	9020119	306.03	0.707347	76.49979
DTPIHI	1	73	234	9020299	528.06	0.995276	75.07338
MMR	57	95204	178	8925168	30.02	0.152155	22.27916
DTAP	19	37304	216	8983068	21.18	0.239237	13.25338
DTAPIPVHIB	6	9395	229	9010977	25.13	0.413433	11.17557
DTAPHEPBIP	3	3581	232	9016791	32.56	0.580831	10.42961
PNC	8	15616	227	9004756	20.32	0.35964	10.04233
MMRV	9	23436	226	8996936	15.29	0.339843	7.853535
6VAX-F	1	879	234	9019493	43.85	1.001567	6.157815
MEN	3	6835	232	9013537	17.05	0.580945	5.461092
HEP	29	156741	206	8863631	7.96	0.19832	5.396931
PNC13	13	56511	222	8963861	9.29	0.285324	5.30982
IPV	3	8397	232	9011975	13.88	0.580969	4.444252
HIBV	4	20204	231	9000168	7.71	0.504261	2.870949
MEA	1	2076	234	9018296	18.56	1.001894	2.605265
HEPA	5	37513	230	8982859	5.21	0.452019	2.14639
UNK	7	61811	228	8958561	4.45	0.383701	2.097599
RUB	1	3060	234	9017312	12.59	1.001971	1.767033
DT	1	4372	234	9016000	8.81	1.00202	1.236463
MENB	2	32541	233	8987831	2.37	0.710113	0.589437
VARCEL	4	103508	231	8916864	1.49	0.504301	0.555158
DTAPIPV	1	11466	234	9008906	3.36	1.002091	0.471029
FLU3	6	269177	229	8751195	0.85	0.413557	0.37872
SMALL	1	16786	234	9003586	2.29	1.002105	0.321546
MNQ	1	30304	234	8990068	1.27	1.002118	0.177839

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- MMR
- DTAP
- DTAPIPVHIB
- DTAPHEPBIP
- PNC
- MMRV
- MEN
- HEP
- PNC13
- IPV
- HIBV
- HEPA

Once again, MMR is at the top, followed by DTAP

The table below shows – results for **COGNITIVE DISORDER**

- **Cognitive disorder** : number of **COGNITIVE DISORDER** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **COGNITIVE DISORDER** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Cognitive disorder	A + B	C	C + D	PRR	S	LCI
LYME	113	13252	2695	9007120	28.50	0.10	23.63
HPV2	139	29976	2669	8990396	15.62	0.09	13.18
PER	2	256	2806	9020116	25.11	0.70	6.31
DTIPV	2	281	2806	9020091	22.88	0.70	5.75
HPV4	229	157025	2579	8863347	5.01	0.07	4.38
MMR	111	95204	2697	8925168	3.86	0.10	3.19
MEA	4	2076	2804	9018296	6.20	0.50	2.33
HPVX	11	9816	2797	9010556	3.61	0.30	2.00
ANTH	26	29721	2782	8990651	2.83	0.20	1.92
HEP	100	156741	2708	8863631	2.09	0.10	1.71
RAB	13	19566	2795	9000806	2.14	0.28	1.24
HPV9	17	40958	2791	8979414	1.34	0.24	0.83
UNK	20	61811	2788	8958561	1.04	0.22	0.67
HEPA	13	37513	2795	8982859	1.11	0.28	0.65
YF	4	7810	2804	9012562	1.65	0.50	0.62
COVID19	1758	6452217	1050	2568155	0.67	0.04	0.62
DTAP	11	37304	2797	8983068	0.95	0.30	0.52
6VAX-F	1	879	2807	9019493	3.66	1.00	0.52
FLU(H1N1)	9	30404	2799	8989968	0.95	0.33	0.49
DTAPHEPBIP	2	3581	2806	9016791	1.79	0.71	0.45
FLUN4	4	10956	2804	9009416	1.17	0.50	0.44
DTAPIPV	4	11466	2804	9008906	1.12	0.50	0.42
COVID19-2	23	118050	2785	8902322	0.62	0.21	0.41
HEPAB	5	16729	2803	9003643	0.96	0.45	0.40
TTOX	3	8990	2805	9011382	1.07	0.58	0.35

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include

- LYME
- HPV2, HPV4, HPVX
- MMR
- MEA

The table below shows – results for **DEVELOPMENTAL DELAY**

- **Developmental delay** : number of **DEVELOPMENTAL DELAY** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **DEVELOPMENTAL DELAY** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Developmental delay	A + B	C	C + D	PRR	S	LCI
PER	4	256	217	9020116	649.49	0.50	243.4259
DTPIPV	3	253	218	9020119	490.63	0.58	158.066
DTAPIPVHIB	10	9395	211	9010977	45.46	0.32	24.1129
MMR	55	95204	166	8925168	31.06	0.16	22.89867
DTAPHEPBIP	4	3581	217	9016791	46.41	0.50	17.2731
PNC	11	15616	210	9004756	30.20	0.31	16.47692
DTPPVHBHPB	1	583	220	9019789	70.32	1.00	9.878348
DTAP	14	37304	207	8983068	16.29	0.28	9.479901
MEN	4	6835	217	9013537	24.31	0.50	9.044138
HEP	39	156741	182	8863631	12.12	0.18	8.575085
HBHEPB	1	801	220	9019571	51.18	1.00	7.186401
PNC13	15	56511	206	8963861	11.55	0.27	6.838643
RV1	7	20802	214	8999570	14.15	0.38	6.666607
DTP	4	9409	217	9010963	17.65	0.50	6.567565
6VAX-F	1	879	220	9019493	46.64	1.00	6.547934
DTPHIB	1	2445	220	9017927	16.77	1.00	2.351957
HIBV	3	20204	218	9000168	6.13	0.58	1.961977
MENB	4	32541	217	8987831	5.09	0.50	1.893812
DT	1	4372	220	9016000	9.37	1.00	1.314797
RV5	3	30921	218	8989451	4.00	0.58	1.280406
HEPA	3	37513	218	8982859	3.30	0.58	1.054622
UNK	4	61811	217	8958561	2.67	0.50	0.993741
IPV	1	8397	220	9011975	4.88	1.00	0.684186
HPVX	1	9816	220	9010556	4.17	1.00	0.585178
DTAPIPV	1	11466	220	9008906	3.57	1.00	0.50087
TYP	1	12634	220	9007738	3.24	1.00	0.454502

Vaccines where these conditions apply : **A + B > 1000** ; **A ≥ 3** ; **PRR > 2** ; **LCI > 2** , include –

- DTAPIPVHIB
- MMR
- DTAPHEPBIP
- PNC
- DTAP
- MEN
- HEP
- PNC13
- RV1
- DTP

Once again, DTAP and MMR have the highest scores on PRR and LCI

The table below shows – results for **DEVELOPMENTAL REGRESSION**

- **Developmental regression** : number of **DEVELOPMENTAL REGRESSION** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **DEVELOPMENTAL REGRESSION** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Developmental regression	A + B	C	C + D	PRR	S	LCI
MMR	20	95204	59	8925168	31.78	0.258725	19.13851
6VAX-F	1	879	78	9019493	131.55	1.005824	18.31992
DTAP	10	37304	69	8983068	34.90	0.338328	17.98165
PNC13	8	56511	71	8963861	17.87	0.372916	8.605198
DTAPIPVHIB	2	9395	77	9010977	24.91	0.716157	6.120818
MENB	4	32541	75	8987831	14.73	0.51313	5.388124
MMRV	3	23436	76	8996936	15.15	0.588599	4.780722
RV5	3	30921	76	8989451	11.48	0.588607	3.620383
HEPA	3	37513	76	8982859	9.45	0.588612	2.981972
HIBV	2	20204	77	9000168	11.57	0.716196	2.842587
UNK	4	61811	75	8958561	7.73	0.513144	2.827314
IPV	1	8397	78	9011975	13.76	1.006331	1.914235
DTP	1	9409	78	9010963	12.28	1.006337	1.708133
FLUN4	1	10956	78	9009416	10.54	1.006344	1.46667
HEP	4	156741	75	8863631	3.02	0.513154	1.103119
PNC	1	15616	78	9004756	7.39	1.006358	1.028439
MNQ	1	30304	78	8990068	3.80	1.006373	0.529086
FLU4	2	114504	77	8905868	2.02	0.716225	0.496286
TDAP	1	89169	78	8931203	1.28	1.006384	0.178628
VARCEL	1	103508	78	8916864	1.10	1.006385	0.153635
FLUX	1	105434	78	8914938	1.08	1.006385	0.150796
HPV4	1	157025	78	8863347	0.72	1.006387	0.100666
COVID19	4	6452217	75	2568155	0.02	0.51316	0.007764
ADEN_4_7	0	226	79	9020146	0.00	inf	0
ANTH	0	29721	79	8990651	0.00	inf	0
BCG	0	1721	79	9018651	0.00	inf	0

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include –

- MMR
- DTAP
- PNC13
- MENB
- MMRV
- RV5
- HEPA

The table below shows – results for **HEARING IMPAIRED**

- **Hearing impaired** : number of **HEARING IMPAIRED** symptoms for a vaccine
- **A + B** : total number of symptoms for a vaccine
- **C** : number of **HEARING IMPAIRED** symptoms for other vaccines
- **C + D** : total number of symptoms for other vaccines
- **S** : standard deviation for PRR score
- **LCI** : Lower limit of the 95% confidence interval

VAX_TYPE	Hearing impaired	A + B	C	C + D	PRR	S	LCI
LYME	15	13252	191	9007120	53.38	0.2680050	31.5669
MMR	32	95204	174	8925168	17.24	0.1923187	11.82652
JEV	1	998	205	9019374	44.09	1.0019360	6.18624
ANTH	8	29721	198	8990651	12.22	0.3605783	6.028677
HEP	28	156741	178	8863631	8.90	0.2032874	5.972076
PNC	5	15616	201	9004756	14.34	0.4526709	5.906835
FLU(H1N1)	8	30404	198	8989968	11.95	0.3605793	5.892788
FLU3	32	269177	174	8751195	5.98	0.1923364	4.101192
FLUN3	4	16471	202	9003901	10.82	0.5048659	4.0241
HPV4	19	157025	187	8863347	5.74	0.2407751	3.577577
RAB	4	19566	202	9000806	9.11	0.5048755	3.38633
MEN	2	6835	204	9013537	12.93	0.7104615	3.212177
HEPAB	3	16729	203	9003643	7.95	0.5815492	2.544185
DTPHIB	1	2445	205	9017927	17.99	1.0022319	2.52323
DTAPHEPBIP	1	3581	205	9016791	12.28	1.0022967	1.722351
TDAP	7	89169	199	8931203	3.52	0.3845399	1.658113
PPV	9	163717	197	8856655	2.47	0.3408533	1.267103
IPV	1	8397	205	9011975	5.24	1.0023765	0.73401
MNQ	2	30304	204	8990068	2.91	0.7105412	0.7225
FLUN(H1N1)	1	8709	205	9011663	5.05	1.0023787	0.707686
TTOX	1	8990	205	9011382	4.89	1.0023805	0.685542
FLUX	4	105434	202	8914938	1.67	0.5049167	0.622375
DTAP	2	37304	204	8983068	2.36	0.7105455	0.586463
HEPA	2	37513	204	8982859	2.35	0.7105457	0.583182
FLUN4	1	10956	205	9009416	4.01	1.00239	0.562392
TYP	1	12634	205	9007738	3.48	1.0023965	0.4876

Vaccines where these conditions apply : **A + B > 1000** ; **A >= 3** ; **PRR > 2** ; **LCI > 2** , include –

- LYME
- MMR
- ANTHRAX
- HEP
- PNC
- FLU (H1N1)
- FLU3
- FLUN
- HPV4
- RAB
- HEPAB

Discussion

Some vaccines show-

1. High PRR ratios for autism
2. Same Symptom Consistency (SSC) –
 - a. Autism
 - b. Aspergers
 - c. Broad autism phenotype
 - d. Autism Spectrum Disorder
3. Related Symptom Consistence (RSC) –
 - a. Repetitive speech
 - b. Speech disorder
 - c. Speech disorder developmental
 - d. Hearing impaired
 - e. Cognitive disorder
 - f. Developmental delay
 - g. Developmental regression
 - h. Emotional disorder
 - i. Emotional poverty
 - j. Attention deficit / hyperactivity disorder
 - k. Intellectual disability
 - l. Learning disability

There is, therefore considerable confirmation of the high PRR ratios for autism in both Same Symptom Consistency (SSC) and Related Symptom Consistency (RSC). A strong pattern of consistency is apparent across multiple symptoms.

So, even though some vaccines have very strong associations with autism and its symptoms, many additional vaccines have a lesser but still very significant effect. This would probably be cumulative with the number of these vaccines taken at one time, and cumulative if these vaccines are taken annually.

The effect of these vaccines may differ depending upon the age at which they are administered. This may require a separate study where PRRs are calculated for different age groups – to determine if the vaccines are more associated with devastating outcomes for younger ages.

Conclusion

This study confirms that MMR is strongly associated with autism, as evidenced by very high PRR scores, and by a consistency in high PRR scores across multiple related symptoms.

However, this study also alerts the public to other vaccines with similar associations.

I hope this study serves to convey the power of this dataset for detecting safety signals. You have seen how it can detect elevations in the incidence of multitudes of related symptoms, enabling us to see Related Symptom Consistency. The symptom inventory is very rich, consisting of 16849 unique symptoms, enabling a detailed and thorough investigation of any vaccine. Finally the results can be ranked and compared. You can view all the symptoms for any one vaccine, ranked by PRR, or you can view all the vaccines for any one symptom, ranked by PRR.

The data is available

- [Safety Signal](#)
- [Excel Spreadsheets](#)

Background information on the creation of the dataset is available

- [PDF](#)

This dataset is critical for informed choice. It is highly recommended that people consult this data before taking any vaccine for themselves or for their children.

Please share this document widely,
especially with anyone considering
parenthood.

APPENDIX A : Additional Symptoms Related to Autism

- Developmental delay
- Developmental regression
- Lack of spontaneous speech
- Speech disorder
- Speech disorder development
- Speech sound disorder
- Seizures
- Cerebral palsy
- Hearing loss

See : [Increase in Developmental Disabilities Among Children in the United States | CDC](#)

VACCINE	Developmental delay
PER	649.49
DTPIPV	490.63
DTPPVHBPB	70.32
HBHEPB	51.18
6VAX-F	46.64
DTAPHEPBIP	46.41
DTAPIPVHIB	45.46
MMR	31.06
PNC	30.20
MEN	24.31
DTP	17.65
DTPHIB	16.77
DTAP	16.29
RV1	14.15
HEP	12.12
PNC13	11.55
DT	9.37
HIBV	6.13
MENB	5.09
IPV	4.88
HPVX	4.17
RV5	4.00
DTAPIPV	3.57
HEPA	3.30
TYP	3.24
UNK	2.67

VACCINE	Developmental regression
6VAX-F	131.55
DTAP	34.90
MMR	31.78
DTAPIPVHIB	24.91
PNC13	17.87
MMRV	15.15
MENB	14.73
IPV	13.76
DTP	12.28
HIBV	11.57
RV5	11.48
FLUN4	10.54
HEPA	9.45
UNK	7.73
PNC	7.39
MNQ	3.80
HEP	3.02
FLU4	2.02
TDAP	1.28
VARCEL	1.10
FLUX	1.08
HPV4	0.72
COVID19	0.02

VACCINE	Lack of spontaneous speech
COVID19	7.83
MMR	3.12
FLU3	0.53

VACCINE	Speech disorder
DTAPIPV	9.68
MMR	7.09
DTPIPV	6.24
PER	6.16
DTP	4.71
MEA	4.56
HBHEPB	3.94
JEV1	3.83
DF	3.34
DTPHIB	3.23
HEP	2.43
DTAPHEPBIP	2.20
DTAP	2.08
DTAPIPV	2.07
RUB	2.06
YF	2.02
6VAX-F	1.79
LYME	1.79
FLUR3	1.78
FLUX(H1N1)	1.76
RAB	1.70
HPV2	1.63
MEN	1.62
HEPAB	1.60
HPV4	1.58
JEV	1.58

VACCINE	Speech disorder development
DTPIHI	528.06
DTPIPV	306.03
6VAX-F	43.85
DTAPHEPBIP	32.56
MMR	30.02
DTAPIPVHIB	25.13
DTAP	21.18
PNC	20.32
MEA	18.56
MEN	17.05
MMRV	15.29
IPV	13.88
RUB	12.59
PNC13	9.29
DT	8.81
HEP	7.96
HIBV	7.71
HEPA	5.21
UNK	4.45
DTAPIPV	3.36
MENB	2.37
SMALL	2.29
VARCEL	1.49
MNQ	1.27
RV5	1.24

VACCINE	Speech sound disorder
RAB	17.04
DTAP	8.92
MMR	3.47
VARCEL	3.19
PPV	2.00
COVID19	1.83
DTPIHI	0.00

VACCINE	Cerebral palsy
DTPIPV	488.39
PER	482.67
HBHEPB	154.25
DTP	26.60
HPVX	25.50
FLUR4	18.22
PNC	16.02
HIBV	12.37
SMALL	7.35
MMR	6.79
HPV2	4.11
FLU(H1N1)	4.05
MENB	3.78
HPV9	3.00
TDAP	2.78
PNC13	2.17
HEP	1.57
VARZOS	1.35
VARCEL	1.18
COVID19-2	1.03

VACCINE	Hearing impaired
LYME	53.38
JEV	44.09
DTPHIB	17.99
MMR	17.24
PNC	14.34
MEN	12.93
DTAPHEPBIP	12.28
ANTH	12.22
FLU(H1N1)	11.95
FLUN3	10.82
RAB	9.11
HEP	8.90
HEPAB	7.95
FLU3	5.98
HPV4	5.74
IPV	5.24
FLUN(H1N1)	5.05
TTOX	4.89
FLUN4	4.01
TDAP	3.52
TYP	3.48
MNQ	2.91
PPV	2.47
DTAP	2.36
HEPA	2.35
HIBV	2.17

APPENDIX B : Childhood vaccine schedule

The results of PRR analysis reveal that MMR, DTAP, HEP, HIBV and PNC vaccines are all associated with a significant risk of autism (brain damage). They generate definite safety signals.

MMR, DTAP, HEP are included on the childhood vaccine schedule !

A doctor can get £400 for every 2 year old who is fully vaccinated with 24 vaccines ([incentives paid to doctors](#)). However, the money is only paid out if the doctor reaches a quota of 63% of their clients. The schedule includes 4 DTAP vaccines, 3 IPV vaccines, 1 MMR vaccine, and 4 HEP vaccines. You have seen how each of these is associated with autism and cognitive disability.

CHILDHOOD IMMUNIZATIONS – COMBO 10	
Product lines	BCN Commercial
Source	HEDIS
Description	<p>The percentage of children 2 years of age who meet the combination 10 criteria on or before their second birthday:</p> <ul style="list-style-type: none">• (4) DTaP* vaccinations• (3) IPV* vaccinations• (1) MMR vaccination• (1) VZV vaccination• (3) HiB* vaccinations• (3) Hepatitis B vaccinations• (4) PCV* vaccinations• (1) HepA vaccination• (2 or 3) RV* vaccinations• (2) Influenza** vaccinations <p>*Vaccinations administered prior to 42 days after birth are not counted as a numerator hit. **Vaccinations administered prior to 180 days after birth are not counted as a numerator hit.</p>
Continuous enrollment	Must be continuously enrolled 12 months prior to child's second birthday

A question arises as to why such vaccines as DTAP and MMR remain on the childhood vaccine schedule despite their harmful side-effects. The answer often given is that the benefits out weigh the risks.

But why are parents not informed of the risks so they can decide for themselves? Why do medical professionals pretend there is no risk?

When challenged they might reply that such side effects are transient and rare – but we have seen that 2.7% of all children now suffer from autism - numbers that have tripled since 2006... so its not rare at all.