

Do Vaccines Cause Autism ?

An investigation of PRR safety signals for 100 different vaccines

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Data Source :

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

Method :

A search was made for symptoms associated with autism –

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

Discussion

Some vaccines show-

1. High PRR ratios for autism
2. Same Symptom Consistency (SSC) –
 - a. Autism
 - b. Aspergers
 - c. Broad autism phenotype
3. Related Symptom Consistence (RSC) –
 - a. Repetitive speech
 - b. Emotional disorder
 - c. Emotional poverty
 - d. Attention deficit
 - e. Intellectual disability
 - f. Intellectual
 - g. Intelligence test abnormal
 - h. 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).

The vaccines that stand out as most associated with autism are –

1. MMR
2. DTaP2
3. DTaP2/IPV/Hib
4. DTaP
5. HPV

However

- 21 vaccines have PRRs greater than 2 for autism
- 26 vaccines have PRRs greater than 2 for autism spectrum disorder
- 6 vaccines have PRRs greater than 2 for Asperger's syndrome
- 8 vaccines have PRRs greater than 2 for repetitive speech
- 11 vaccines have PRRs greater than 2 for emotional poverty
- 20 vaccines have PRRs greater than 2 for Attention deficit hyperactivity disorder
- 14 vaccines have PRRs greater than 2 for intellectual disability
- 14 vaccines have PRRs greater than 2 for learning disability

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. I can do 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.

The multi-valent vaccines, that combine 2 or more vaccines, seem associated with worse outcomes.

Conclusion

This study confirms that MMR is strongly associated with autism, but also uncovers other vaccines with similar associations. It is recommended that people considering vaccinations for their children checkout the vaccine using the [Safety Signal](#) online, or down load the [Excel Spreadsheets](#)

