

RANKING of AUTISM in EUDRA

By Craig Paardekooper

Data source :

Eudra-vigilance data for all medicines, substances, products and vaccines between 2017 and 2024. [500 Mb compressed].

Note : The single-line datafile is case-sensitive. Each symptom should be converted to lower case.

Download link -

<https://www.dropbox.com/scl/fi/phs3y74e3fytltuuv7otx/eudra.zip?rlkey=5hwm09juhwp7cmks6qx8uw17a&st=lhie7ev0&dl=0>

Method

For each drug, the total number of REPORTS were counted where 1 or more symptoms of “autism” occurred. This was divided by the total number of all REPORTS for that drug, to obtain the percentage of REPORTS for each drug that included autism as a reaction.

$\% = \text{number of reports with autism for each drug} / \text{total number of reports for each drug}$

This procedure was then repeated, but this time the frequency of the symptom “autism” within each report was taken into account.

$\% = \text{number of symptoms of autism for each drug} / \text{total number of symptoms for each drug}$

The total number of instances of occurrence of the symptom “autism” in the REACTION field was counted for each drug. This was then divided by the total number of symptoms for each drug – providing the percentage of symptom words that were “autism”.

Results

The % of REPORTS with AUTISM is shown in TABLE A

The % of SYMPTOMS with AUTISM is shown in TABLE B

TABLE A : Vaccines seem to dominate the top ranks –

- DTP
- HEP
- RV
- MMR

Many of these are on the childhood vaccine schedule. Also vaccine adjuvants such as Aluminium have a high rank.

TABLE B : Vaccines seem to dominate the top ranks –

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Clinical Confirmation

Valporic acid is taken as an example. It appears frequently with a high rank (see table below).

The risk of autism spectrum disorder and childhood autism was increased among 441 valproate-exposed children whose mothers filled valproate prescriptions in the first trimester (adjusted HR, 2.9 [95% CI, 1.6-5.1] for autism spectrum disorder and 4.7 [95% CI, 2.2-9.9] for childhood autism).

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4511955/>

FREQ = number of REPORTS with symptom (autism)

TOT = total number of all REPORTS

% = percentage of all REPORTS with symptom (autism)

TABLE A

DRUG	FREQ	TOT	%
[HEPATITIS B SURFACE ANTIGEN	21	142	14.79
[ALUMINIUM, HEPATITIS B SURFACE ANTIGEN	47	350	13.43
[DIPHTHERIA, TETANUS AND PERTUSSIS	25	204	12.25
ROTASHIELD [ROTAVIRUS SEROTYPE G1 HUMAN-RHESUS ROTAVIRUS REASSORTANTS, ROTAVIRUS SEROTYPE G2 HUMAN-RHESUS ROTAVIRUS REASSORTANTS, ROTAVIRUS SEROTYPE G4 HUMAN-RHESUS ROTAVIRUS REASSORTANTS, RHESUS ROTAVIRUS SEROTYPE G3]	18	185	9.73
[SODIUM VALPROATE, VALPROIC ACID]	251	4287	5.85
NOT AVAILABLE [[THERAPY UNSPECIFIED]]	16	304	5.26
[SODIUM VALPROATE, VALPROIC ACID, SODIUM, VALPROIC ACID, SODIUM VALPROATE]	170	3355	5.07
[MEASLES, MUMPS AND RUBELLA VACCINE	376	8676	4.33
[HAEMOPHILUS INFLUENZAE TYPE B	11	289	3.81
[SODIUM VALPROATE]	196	7984	2.45
INFANRIX HEXA POWDER AND SUSPENSION FOR SUSPENSION FOR INJECTION [ALUMINIUM PHOSPHATE, DIPHTHERIA TOXOID, TETANUS TOXOID, HAEMOPHILUS TYPE B CONJUGATE VACCINE	11	457	2.41
[DIPHENHYDRAMINE HYDROCHLORIDE, PARACETAMOL]	12	646	1.86
[VALPROIC ACID, SODIUM VALPROATE]	15	874	1.72
[VALPROATE SEMISODIUM]	71	4151	1.71
[SODIUM VALPROATE, VALPROIC ACID, SODIUM VALPROATE]	30	1758	1.71
[A/HONG KONG/4801/2014	19	1202	1.58
[MEMANTINE]	10	636	1.57
[PAROXETINE HYDROCHLORIDE]	56	3568	1.57
[ALUMINIUM PHOSPHATE, CORYNEBACTERIUM DIPHTHERIAE CRM197 CARRIER PROTEIN, NEISSERIA MENINGITIDIS GROUP C	14	1019	1.37
[FLUOXETINE HYDROCHLORIDE]	22	2043	1.08
[VALPROIC ACID]	34	3597	0.95
[FLUOXETINE, FLUOXETINE HYDROCHLORIDE]	91	10847	0.84
[PAROXETINE, PAROXETINE HYDROCHLORIDE]	56	7415	0.76
[MEASLES VIRUS EDMONSTON-ENDERS STRAIN	105	15357	0.68
[ALGELDRATE, N. MENINGITIDIS GROUP C	16	2546	0.63

PROQUAD [MEASLES VIRUS ENDERS' EDMONSTON STRAIN	12	2065	0.58
[LAMOTRIGINE]	20	3599	0.56
AVAMYS [FLUTICASON FUROATE]	19	3864	0.49
[CLOBAZAM]	15	3170	0.47
[MISOPROSTOL]	13	2884	0.45
[MONTELUKAST, MONTELUKAST SODIUM]	25	7314	0.34
[CARBAMAZEPINE]	16	4815	0.33
INFANRIX HEXA [ALUMINIUM PHOSPHATE, DIPHTHERIA TOXOID, TETANUS TOXOID, HAEMOPHILUS TYPE B CONJUGATE VACCINE	25	7677	0.33
[CARBAMAZEPINE, CARBAMAZEPINE	11	3546	0.31
M-M-RVAXPRO [MEASLES VIRUS ENDERS' EDMONSTON STRAIN	53	18356	0.29
[SOMATROPIN]	26	10444	0.25
SPINRAZA [NUSINERSEN]	14	5904	0.24
[OXCARBAZEPINE]	15	8298	0.18
LATUDA [LURASIDONE, LURASIDONE HYDROCHLORIDE]	19	11544	0.16
SUBOXONE [BUPRENORPHINE, NALOXONE, NALOXONE HYDROCHLORIDE DIHYDRATE, BUPRENORPHINE HYDROCHLORIDE]	17	10426	0.16
KEPPRA [LEVETIRACETAM]	40	28114	0.14
ABILIFY [ARIPIRAZOLE]	11	7776	0.14
[TOPIRAMATE]	16	11696	0.14
LEVETIRACETAM [LEVETIRACETAM]	18	14073	0.13
OLANZAPINE [OLANZAPINE]	13	19917	0.07
ZYPREXA [OLANZAPINE]	10	20564	0.05
HUMALOG [INSULIN LISPRO]	11	26388	0.04
XELJANZ [TOFACITINIB, TOFACITINIB CITRATE]	10	27165	0.04
TOZINAMERAN [TOZINAMERAN]	15	121907	0.01

FREQ = number of occurrences of the symptom (autism)

TOT = total number of all symptoms

% = percentage of all symptoms that are the symptom (autism)

TABLE B

DRUG	FREQ	TOT	%
[DIPHTHERIA AND TETANUS TOXOIDS AND PERTUSSIS]	26	374	6.95
[DIPHTHERIA, TETANUS, PERTUSSIS AND HAEMOPHILUS B VACCINE]	10	187	5.35
[HEPATITIS B SURFACE ANTIGEN	24	613	3.92
ROTASHIELD [ROTAVIRUS SEROTYPE G1 HUMAN-RHESUS ROTAVIRUS REASSORTANTS, ROTAVIRUS SEROTYPE G2 HUMAN-RHESUS ROTAVIRUS REASSORTANTS, ROTAVIRUS SEROTYPE G4 HUMAN-RHESUS ROTAVIRUS REASSORTANTS, RHESUS ROTAVIRUS SEROTYPE G3]	18	460	3.91
[ALUMINIUM, HEPATITIS B SURFACE ANTIGEN	47	1477	3.18
[HAEMOPHILUS TYPE B CONJUGATE VACCINE, NEISSERIA MENINGITIDIS]	10	321	3.12
[DIPHTHERIA, TETANUS AND PERTUSSIS	25	938	2.67
[HAEMOPHILUS INFLUENZAE TYPE B	11	510	2.16
NOT AVAILABLE [[THERAPY UNSPECIFIED]]	16	790	2.03
[MEASLES, MUMPS AND RUBELLA VACCINE	384	23176	1.66
[SODIUM VALPROATE, VALPROIC ACID]	254	19298	1.32
INFANRIX HEXA POWDER AND SUSPENSION FOR SUSPENSION FOR INJECTION [ALUMINIUM PHOSPHATE, DIPHTHERIA TOXOID, TETANUS TOXOID, HAEMOPHILUS TYPE B CONJUGATE VACCINE	11	1122	0.98
[SODIUM VALPROATE]	199	22095	0.90
[SODIUM VALPROATE, VALPROIC ACID, SODIUM, VALPROIC ACID, SODIUM VALPROATE]	174	20863	0.83
[MEMANTINE]	10	1500	0.67
[DIPHENHYDRAMINE HYDROCHLORIDE, PARACETAMOL]	12	1913	0.63
[SODIUM VALPROATE, VALPROIC ACID, SODIUM VALPROATE]	30	4872	0.62
[VALPROIC ACID, SODIUM VALPROATE]	15	2511	0.60
PROQUAD [MEASLES VIRUS ENDERS' EDMONSTON STRAIN	12	2420	0.50
[ALUMINIUM PHOSPHATE, CORYNEBACTERIUM DIPHTHERIAE CRM197 CARRIER PROTEIN, NEISSERIA MENINGITIDIS GROUP C	14	2832	0.49
[FLUOXETINE HYDROCHLORIDE]	22	5891	0.37
[VALPROATE SEMISODIUM]	71	19610	0.36

[A/HONG KONG/4801/2014	19	5522	0.34
[VALPROIC ACID]	35	10886	0.32
[PAROXETINE HYDROCHLORIDE]	56	17866	0.31
[FLUOXETINE, FLUOXETINE HYDROCHLORIDE]	91	34424	0.26
[MEASLES VIRUS EDMONSTON-ENDERS STRAIN	105	40454	0.26
INFANRIX HEXA [ALUMINIUM PHOSPHATE, DIPHTHERIA TOXOID, TETANUS TOXOID, HAEMOPHILUS TYPE B CONJUGATE VACCINE	25	12344	0.20
[ALGELDRATE, N. MENINGITIDIS GROUP C	16	8211	0.19
[PAROXETINE, PAROXETINE HYDROCHLORIDE]	56	35408	0.16
[MISOPROSTOL]	13	8632	0.15
[CLOBAZAM]	15	10043	0.15
[LAMOTRIGINE]	20	16286	0.12
M-M-RVAXPRO [MEASLES VIRUS ENDERS' EDMONSTON STRAIN	55	48037	0.11
SPINRAZA [NUSINERSEN]	14	13272	0.11
[SOMATROPIN]	26	26794	0.10
[MONTELUKAST, MONTELUKAST SODIUM]	25	25858	0.10
[CARBAMAZEPINE]	16	18458	0.09
[CARBAMAZEPINE, CARBAMAZEPINE	11	14817	0.07
LATUDA [LURASIDONE, LURASIDONE HYDROCHLORIDE]	19	27382	0.07
AVAMYS [FLUTICASON FUROATE]	19	28381	0.07
[OXCARBAZEPINE]	15	25551	0.06
[TOPIRAMATE]	16	32803	0.05
LEVETIRACETAM [LEVETIRACETAM]	20	42754	0.05
KEPPRA [LEVETIRACETAM]	40	91741	0.04
SUBOXONE [BUPRENORPHINE, NALOXONE, NALOXONE HYDROCHLORIDE DIHYDRATE, BUPRENORPHINE HYDROCHLORIDE]	17	39211	0.04
ABILIFY [ARIPRAZOLE]	11	40473	0.03
OLANZAPINE [OLANZAPINE]	13	69589	0.02
ZYPREXA [OLANZAPINE]	10	72630	0.01
HUMALOG [INSULIN LISPRO]	11	94226	0.01
XELJANZ [TOFACITINIB, TOFACITINIB CITRATE]	10	111192	0.01
TOZINAMERAN [TOZINAMERAN]	15	537959	0.00