

AUTISM in the EU

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DATA SOURCE : Eudra Safety Signal Dataset (ESSD) : <https://howbad.info/essd.zip>

ESSD Online : <https://knollfrank.github.io/HowBadIsMyBatch/SymptomsCausedByDrugs/>

- A. These are the only drugs in the entire ESS Dataset that generate safety signals for autism spectrum disorder.

SYMPTOM = Autism spectrum disorder

DRUG	PRR lower confid. limit
○ ROTASHIELD	218.07
○ PROQUAD	110.57
○ PREVENAR	28.41
○ INFANRIX	28.13
○ MMRVAXPRO	7.92
○ SPINRAZA	5.35
○ LATUDA	4.74
○ AVAMYS	3.59
○ KEPPRA	2.69
○ LEVETIRACETAM	2.51

Note that the top 5 are all vaccines – Rotashield is the Rotavirus vaccine; Proquad is the MMR vaccine; Prevenar is the Pneumonia Coccoal vaccine; Infanrix is a multi-valent vaccine containing DTP; MMRVaxpro is the MMR vaccine

2. Compare this with the drugs that have safety signals for sudden infant death. There are only 6 drugs with safety signals for sudden infant death in the entire EU Safety Signal Dataset (E.S.S.D)

SYMPTOM = Sudden infant death syndrome

DRUG	PRR lower confid. limit
○ HEXYON	234.66
○ SYNAGIS	133.33
○ PREVENAR	93.15
○ INFANRIX	73.73
○ ROTATEQ	45.35
○ SUBOXONE	15.34

4 of the top 5 are all vaccines - Hexyon is a hexa-valent vaccine (similar to Infanrix); Infanrix is a multi-valent vaccine containing DTP; Prevenar is the Pneumonal Coccoal Vaccine; Rotateq is the RV vaccine; Synagis is a drug used against RSV.

So there is a cross-over between drugs that cause autism and drugs that cause SIDS.

3. Other symptoms of autism include - developmental speech disorder, ADHD, staring, gaze palsy.

SYMPTOM = Speech disorder developmental

DRUG	PRR lower confid. limit
○ INFANRIX	32.64
○ PREVENAR	20.68
○ EPIVIR	12.35
○ SUBOXONE	6.97
○ COMBIVIR	6.29
○ MMRVAXPRO	5.73
○ KEPPRA	2.38

SYMPTOM = Attention deficit hyperactivity disorder

DRUG	PRR lower confid. limit
○ INFANRIX	11.2
○ KAFTRIO	10.77
○ SUBOXONE	5.87
○ LEVETIRACETAM	5.21
○ GARDASIL	4.85
○ COMBIVIR	3.86
○ KEPPRA	3.68
○ BUPRENORPHINE	3.03
○ AVAMYS	2.84
○ ARIPIPRAZOLE	2.75
○ ABILIFY	2.07

SYMPTOM = Staring

DRUG	PRR lower confid. limit
○ INFANRIX	25.64
○ PREVENAR	17.56
○ NIMENRIX	11.44
○ MMRVAXPRO	9.93
○ LACOSAMIDE	9.85
○ VIMPAT	8.22
○ KEPPRA	7.0
○ GARDASIL	6.8
○ LEVETIRACETAM	4.78
○ ARIPIPRAZOLE	3.88
○ TAMIFLU	3.79
○ PEGINTRON	2.59
○ ZYPREXA	2.51
○ CYMBALTA	2.36

SYMPTOM = Gaze palsy

DRUG	PRR lower confid. limit
○ PREVENAR	32.19
○ FYCOMPA	27.75
○ INFANRIX	16.67
○ MMRVAXPRO	15.77
○ NIMENRIX	4.67
○ GARDASIL	4.16
○ ARIPIPRAZOLE	3.35
○ OLANZAPINE	3.19
○ ZYPREXA	2.17

The same vaccines are repeatedly associated with autism – in particular Infanrix which contains the DTP vaccine, Prevenar which is the pneumonia coccal vaccine, MMR, the rotary virus vaccine, and the HPV vaccine (Gardasil).