Supplementary Materials: Performance of Apriori Algorithm for Detecting Drug–Drug Interactions from Spontaneous Reporting Systems

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This document includes supplementary material for Section 4, Real Data Example.

Table S1. Identified AE-associated vaccines from VAERS reports in the year of 2024 with secondary indicator values.

Vaccine	AE	*Conf*	*Lift*	PRR	ROR	RR
COVID19 (PFIZER-BIONTECH)	COVID-19	0.214	4.011	13.75	17.23	4.011
MENINGOCOCCAL CONJUGATE (MENQUADFI)	Syncope	0.136	5.142	5.447	6.150	5.142
HPV (GARDASIL 9)	Syncope	0.120	4.529	5.126	5.690	4.529
MENINGOCOCCAL CONJUGATE (MENVEO)	Syncope	0.104	3.920	4.070	4.427	3.920
TDAP (BOOSTRIX)	Syncope	0.096	3.597	3.882	4.186	3.596
ZOSTER (NO BRAND NAME)	Pain	0.209	3.426	3.510	4.172	3.426
MENINGOCOCCAL CONJUGATE (MENQUADFI)	Dizziness	0.162	3.496	3.619	4.126	3.496
PNEUMO (PREVNAR20)	Injection site erythema	0.185	3.031	3.310	3.835	3.031
PNEUMO (PREVNAR20)	Erythema	0.096	3.218	3.544	3.815	3.218
INFLUENZA (SEASONAL) (FLUZONE HIGH-DOSE QUADRIVALENT)	Injection site pain	0.186	2.814	2.868	3.296	2.814

Table S2. Identified AE-associated vaccine interactions from VAERS reports in the year of 2024 with secondary indicator values.

Vaccine	Vaccine	AE	*Conf*	*Lift*	PRR	ROR	RR
HPV (GARDASIL 9)	MENINGOCOCCAL B (BEXSERO)	Syncope	0.269	10.15	10.23	13.63	10.15
COVID19 (PFIZER-BIONTECH)	COVID19 (MODERNA)	COVID-19	0.407	7.710	7.673	12.25	7.710
HPV (GARDASIL 9)	MENINGOCOCCAL CONJUGATE (MENVEO)	Syncope	0.188	7.088	7.179	8.609	7.088
VARICELLA (VARIVAX)	MENINGOCOCCAL CONJUGATE (MENQUADFI)	Syncope	0.177	6.683	6.728	7.963	6.683
TDAP (BOOSTRIX)	MEASLES + MUMPS + RUBELLA (MMR II)	Syncope	0.176	6.613	6.664	7.872	6.613
MENINGOCOCCAL B (BEXSERO)	MENINGOCOCCAL CONJUGATE (MENVEO)	Syncope	0.175	6.587	6.642	7.839	6.587
TDAP (BOOSTRIX)	MENINGOCOCCAL CONJUGATE (MENQUADFI)	Syncope	0.171	6.450	6.549	7.696	6.450
VARICELLA (VARIVAX)	TDAP (BOOSTRIX)	Syncope	0.168	6.340	6.400	7.494	6.340
HPV (GARDASIL 9)	TDAP (BOOSTRIX)	Syncope	0.165	6.249	6.363	7.429	6.249
TDAP (BOOSTRIX)	HEP A (HAVRIX)	Syncope	0.164	6.209	6.269	7.309	6.209