

Table S1. Table showing the proportion of variance explained by each individual principal components (PCs), the cumulative proportion of variance explained by PC1+PC2 and PC1+PC2+PC3, and the contribution that each reported adverse effect has in defining each PC (i.e. PCs loadings).

	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10	PC11	PC12	PC13	PC14	PC15	PC16	PC17	PC18	PC19	PC20	PC21	PC22	PC23	PC24	PC25	PC26	PC27	PC28	
Standard deviation	0.7384	0.5051	0.4262	0.4064	0.3820	0.3696	0.3399	0.3208	0.3067	0.2827	0.2461	0.0493	0.0471	0.0404	0.0385	0.0378	0.0325	0.0287	0.0286	0.0286	0.0273	0.0243	0.0238	0.0203	0.0203	0.0202	0.0201	0.0114	
Proportion of Variance	0.2871	0.1344	0.0957	0.0870	0.0768	0.0719	0.0608	0.0542	0.0495	0.0421	0.0319	0.0013	0.0012	0.0009	0.0008	0.0008	0.0006	0.0004	0.0004	0.0004	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	0.0001		
Cumulative Proportion	0.2871	0.4215	0.5172	0.6041	0.6809	0.7529	0.8137	0.8679	0.9174	0.9595	0.9914	0.9927	0.9938	0.9947	0.9955	0.9962	0.9968	0.9972	0.9976	0.9981	0.9985	0.9988	0.9991	0.9993	0.9995	0.9997	1.0000		
Gastroint	-0.003	0.001	-0.003	0.001	-0.003	0.000	-0.004	0.002	-0.005	0.002	-0.006	0.009	-0.005	-0.815	0.025	0.005	0.008	0.000	0.004	0.002	0.001	0.004	0.000	0.307	0.286	-0.120	-0.381	-0.002	
Arthralgia	-0.002	0.000	-0.003	0.000	0.002	0.001	-0.001	0.000	0.002	0.003	0.002	0.006	-0.008	0.027	0.850	0.047	0.008	0.004	0.000	0.001	-0.005	0.000	0.524	-0.001	0.001	-0.002	-0.001	0.000	
Asthenia	0.001	0.003	0.002	0.000	0.002	0.001	0.000	0.003	-0.001	-0.003	0.002	0.016	0.383	-0.009	0.012	0.004	-0.923	0.001	-0.005	0.003	-0.002	0.001	0.001	0.001	-0.002	-0.001	0.000		
Chills	-0.301	0.219	0.054	0.133	0.649	-0.034	0.285	0.004	0.569	0.106	0.049	-0.002	-0.003	-0.006	-0.005	0.000	0.000	-0.001	0.003	-0.002	0.004	0.000	0.002	-0.001	0.001	0.000	-0.002	0.000	
Photophobia	0.000	-0.001	0.001	0.001	0.000	0.000	-0.002	-0.003	-0.001	0.000	0.000	0.001	-0.001	0.002	-0.002	-0.002	-0.003	0.787	0.615	-0.054	-0.002	0.005	-0.003	-0.002	0.003	0.003	0.000		
Headache	-0.288	0.006	-0.789	-0.361	-0.041	0.328	-0.096	0.165	0.099	0.071	0.058	0.004	-0.001	0.003	-0.004	-0.002	-0.002	0.002	0.000	-0.003	0.000	0.002	-0.002	0.000	0.000	0.002	0.001	-0.001	
Sinus_congestion	-0.001	0.000	-0.002	0.003	0.003	0.000	0.000	-0.002	0.002	0.002	0.001	0.002	-0.005	0.015	0.523	0.029	0.004	-0.002	0.001	0.006	0.003	-0.004	-0.851	0.000	0.000	0.001	0.002	-0.001	
Localized_pain	-0.429	-0.182	-0.042	0.750	-0.349	0.288	-0.029	-0.048	0.100	0.006	0.011	0.004	-0.002	0.002	-0.002	-0.001	-0.003	0.000	-0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.002	0.001		
Diarrhea	-0.001	0.000	0.001	0.000	-0.003	0.005	-0.003	0.004	0.004	0.003	0.002	-0.817	0.037	-0.013	0.033	-0.508	0.000	-0.006	0.007	0.000	-0.240	0.110	0.000	-0.001	-0.001	0.003	-0.051		
Inj_site_pain	0.251	-0.722	-0.294	0.235	0.464	-0.166	-0.153	-0.011	-0.070	-0.054	0.019	-0.001	0.002	-0.001	-0.002	-0.003	-0.001	0.000	-0.002	0.003	0.000	0.000	0.002	-0.001	-0.001	0.000	-0.001		
Inj_site_red	0.000	0.001	-0.001	0.001	-0.001	0.003	0.001	0.001	-0.002	0.001	0.000	0.001	-0.001	0.002	-0.001	0.000	0.001	0.000	-0.002	0.007	-0.003	-0.747	0.063	-0.533	-0.393	-0.001			
Pyrexia	-0.259	0.187	-0.084	0.152	0.327	0.051	0.349	0.131	-0.784	0.039	-0.058	-0.004	0.004	0.002	0.000	0.000	0.004	0.001	0.000	0.003	-0.003	0.001	0.001	0.000	-0.002	0.003	0.000		
Paresthesia	-0.001	0.003	-0.001	0.003	-0.002	0.000	-0.003	0.000	0.006	0.004	0.003	0.044	0.922	-0.003	0.005	-0.003	0.384	0.002	0.001	0.002	-0.002	-0.001	-0.001	-0.002	-0.001	0.001	0.000		
Insomnia	-0.179	0.198	-0.341	0.158	-0.204	-0.861	-0.042	-0.008	0.014	0.054	0.019	-0.003	-0.001	0.003	-0.001	0.000	-0.002	0.001	0.001	0.002	-0.002	0.001	0.001	0.000	0.001	-0.002	0.000		
Hypersensitivity	-0.024	0.011	-0.073	-0.002	0.018	-0.001	0.010	-0.008	0.089	-0.211	-0.970	-0.001	0.003	0.003	0.003	0.000	0.000	0.002	-0.001	-0.005	-0.005	0.004	0.000	-0.001	0.000	-0.004	0.006	0.002	
Hypoesthesia	0.000	-0.001	0.001	0.001	-0.001	0.000	-0.001	0.000	0.000	0.000	0.000	-0.091	0.005	0.000	-0.013	0.270	0.002	0.001	-0.005	0.006	0.159	0.574	0.000	0.000	0.002	0.000	0.011	-0.750	
Lymphadenopathy	-0.067	0.083	-0.044	0.007	0.032	-0.015	0.052	0.072	0.032	-0.964	0.219	-0.003	0.001	-0.003	0.003	0.000	0.005	0.001	-0.001	-0.003	0.000	-0.001	0.000	-0.001	0.000	-0.001	0.000		
Malaise	-0.505	-0.092	0.344	-0.167	0.173	-0.097	-0.660	0.324	-0.097	-0.003	-0.028	0.004	-0.001	0.003	0.000	0.000	0.001	0.000	-0.001	-0.003	-0.001	-0.001	-0.001	-0.002	0.001	0.000			
Nausea	-0.163	0.137	-0.067	-0.062	0.162	0.060	-0.301	-0.897	-0.134	-0.054	0.017	-0.004	0.001	0.002	-0.002	0.000	-0.002	-0.002	-0.003	-0.001	0.000	-0.001	0.001	0.002	-0.002	-0.001	-0.004	-0.001	
Presyncope	0.000	0.001	0.000	0.001	-0.002	-0.001	-0.002	0.001	0.001	0.000	-0.007	0.001	-0.001	0.001	0.004	0.001	0.001	-0.002	0.001	-0.002	-0.004	-0.010	0.009	0.000	-0.253	-0.168	0.759	-0.576	-0.005
Pustola	0.000	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.003	0.001	0.000	0.000	-0.002	-0.003	-0.002	0.002	0.003	0.423	-0.522	0.219	-0.031	0.000	-0.001	0.000	-0.002	-0.001	0.001	0.000	
Hyperhidrosis	-0.001	0.000	-0.002	0.001	-0.002	0.001	-0.																						

Table S2. Descriptive analysis of reported adverse effects absolute frequency across the three clusters.

	Cluster 1	Cluster 2	Cluster 3
Gastroint	3	0	0
Arthralgia	2	0	1
Asthenia	0	2	1
Chills	329	145	43
Photophobia	1	0	1
Headache	380	177	115
Sinus congestion	1	0	1
Localized pain	591	149	153
Diarrhea	2	2	1
Inj site pain	463	0	1089
Inj site red	0	1	0
Pyrexia	267	119	24
Paresthesia	1	2	2
Insomnia	241	157	89
Hypersensitivity	69	43	51
Hypoesthesia	1	0	0
Lymphadenopathy	99	81	41
Malaise	629	208	80
Nausea	183	125	31
Presyncope	0	1	0
Pustola	0	1	0
Hyperhidrosis	2	0	0
Fatigue	673	203	295
Sweats	1	0	1
Tachycardia	2	0	1
Cough	1	1	0
Aphtha	1	0	0
Vomiting	0	1	0
Inj site swel	1	0	0
Myalgia	1	0	0