

Table 1. **Top 20 terms identified with high confidence as prevalent with IPV in senior population.** For each log-odds ratio (LOR), the point estimate, 95% augmented confidence interval and the corresponding confidence level are provided respectively. The confidence levels are abbreviated: H for high, M for medium, and L for low. The terms are sorted in descending order according to the minimum bound  $LOR_{min}(t, IPV|Senior)$ . All 20 reported terms are identified with high confidence. This indicates that they have higher than average association with IPV in senior population in a statistically significant manner. See Supplementary Data 2 for a full list of terms identified.

	Term Description	LOR(t, IPV Senior)		Number of Records			
		Raw	Mean Adjusted	BG	IPV	Senior	SeniorIPV
1	TID8656: History of abuse	6.57 [5.37, 7.52] H	4.91 [3.71, 5.86] H	36660	310	2780	20
2	TID11542: Maltreatment syndromes	7.62 [5.29, 9.02] H	5.96 [3.63, 7.36] H	4390	100	660	10
3	TID14564: Poisoning caused by anticonvulsant	5.69 [4.49, 6.64] H	4.03 [2.83, 4.98] H	26920	190	5100	20
4	TID14677: Poisoning caused by sedative AND/OR hypnotic	5.54 [4.34, 6.49] H	3.88 [2.69, 4.83] H	28660	200	5650	20
5	TID5148: Continuous acute alcoholic intoxication in alcoholism	6.53 [4.21, 7.90] H	4.87 [2.55, 6.25] H	7870	120	1400	10
6	TID5150: Continuous opioid dependence	5.28 [4.09, 6.23] H	3.63 [2.43, 4.57] H	25590	140	6750	20
7	TID3855: Chronic post-traumatic stress disorder	4.82 [3.94, 5.58] H	3.16 [2.28, 3.93] H	136510	680	14260	30
8	TID1156: Alcohol intoxication	4.93 [3.73, 5.87] H	3.27 [2.07, 4.21] H	68940	420	8650	20
9	TID634: Acute drug intoxication	4.92 [3.72, 5.86] H	3.26 [2.06, 4.20] H	69550	420	8690	20
10	TID14602: Poisoning caused by central nervous system drug	4.44 [3.71, 5.10] H	2.78 [2.05, 3.44] H	150480	820	25370	40
11	TID8793: History of physical abuse	6.02 [3.70, 7.39] H	4.36 [2.04, 5.73] H	29000	290	1990	10
12	TID14067: Pathological drug intoxication	4.89 [3.69, 5.83] H	3.23 [2.04, 4.18] H	70250	430	8860	20
13	TID5212: Contusion of multiple sites	4.36 [3.63, 5.02] H	2.71 [1.98, 3.36] H	55570	850	26750	40
14	TID14899: Posttraumatic stress disorder	4.49 [3.60, 5.25] H	2.83 [1.95, 3.59] H	161610	720	17980	30
15	TID17797: Toxic effect of ethyl alcohol	4.79 [3.60, 5.74] H	3.13 [1.94, 4.08] H	73690	450	9480	20
16	TID14670: Poisoning caused by psychotropic agent	4.75 [3.56, 5.70] H	3.10 [1.90, 4.04] H	60390	360	9730	20
17	TID14606: Poisoning caused by chemical substance	4.24 [3.51, 4.89] H	2.58 [1.85, 3.24] H	154130	730	29160	40
18	TID6695: Drug abuse	4.33 [3.44, 5.09] H	2.67 [1.78, 3.43] H	190400	1020	20100	30
19	TID1152: Alcohol abuse	4.07 [3.43, 4.65] H	2.41 [1.77, 3.00] H	220590	1200	42040	50
20	TID12981: Nondependent mixed drug abuse	4.62 [3.42, 5.56] H	2.96 [1.77, 3.90] H	138370	800	10680	20