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Supplementary Material

- Article Title: Deimplementation of Benzodiazepine Prescribing in Posttraumatic Stress Disorder in the Veterans Health Administration
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1. <u>Table 1</u> Estimating the relative contribution of benzodiazepine prescribing changes over time, beginning with 2013 to 2014, the first two-year transition period where the absolute number of observed benzodiazepine recipients decreased

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Years	Prescribing change	Ν	Expected	Observed	Gap#	Attribution**
2013-14	Cessation, existing cohort	148,512*	26,138†	30,179	4,041	17.5%
	Incidence, existing cohort	518,649‡	30,082§	20,381	9,701	41.9%
	Prevalence, new entrants	164,007	34,113¶	24,707	9,406	40.6%
2014-15	Cessation, existing cohort	143,927	25,331	33,554	8,223	23.5%
	Incidence, existing cohort	552,993	32,074	19,385	12,689	36.3%
	Prevalence, new entrants	174,425	36,280	22,214	14,066	40.2%
2015-16	Cessation, existing cohort	130,188	22,913	33,661	10,748	24.8%
	Incidence, existing cohort	564,576	32,745	17,542	15,203	35.0%
	Prevalence, new entrants	172,382	35,855	18,403	17,452	40.2%
2016-17	Cessation, existing cohort	116,790	20,555	33,452	12,897	24.5%
	Incidence, existing cohort	598,380	34,706	16,462	18,244	34.6%
	Prevalence, new entrants	182,790	38,020	16,478	21,542	40.9%
2017-18	Cessation, existing cohort	102,887	18,108	29,567	11,459	19.9%
	Incidence, existing cohort	635,073	36,834	16,189	20,645	35.9%
	Prevalence, new entrants	191,932	39,922	14,449	25,473	44.2%
2018-19	Cessation, existing cohort	92,300	16,245	26,535	10,290	16.2%
	Incidence, existing cohort	674,006	39,092	15,690	23,402	36.9%
	Prevalence, new entrants	203,779	42,386	12,634	29,752	46.9%
Overall						21.0%
Mean %						36.8%
						42.2%

Supplementary Table 1. Estimating the relative contribution of benzodiazepine prescribing changes over time, beginning with 2013 to 2014, the first two-year transition period where the absolute number of observed benzodiazepine recipients decreased

* Denominator for calculation of expected and observed discontinuation rates, defined as the number of prevalent benzodiazepine recipients in the first year of each two-year transition period

⁺ The number of patients expected to discontinue based on the denominator and the historical discontinuation rate from 2009 to 2010 of 17.6%.

[‡] Denominator for calculation of expected and observed incidence rates, defined as the number of patients in the first year of each two-year transition period who did not receive benzodiazepines and thus at risk to become incident recipients during the second year.

§ The number of patients expected to become incident benzodiazepine recipients based on the denominator and the historical incidence rate from 2009 to 2010 of 5.8%.

|| Denominator for calculation of expected and observed benzodiazepine prevalence among new cohort entrants, defined as the number of patients included in the cohort for the second year of each two-year transition period, but not the first year.

¶ The number of patients expected prevalent benzodiazepine recipients among new cohort entrants based on the denominator and the historical prevalence rate from 2009 to 2010 of 20.8%.

The absolute difference between observed and expected patient counts, all of which contributed to reductions in the number of benzodiazepine recipients during each two-year transition period.

** Among the total gap in observed and expected patient counts from all three prescribing changes, the proportion accounted for by each individual prescribing change. The overall mean values are the arithmetic mean across the 6 two-year transition periods.