

## Appendix C. Aim 1 Full Sample Analyses

## Appendix C: Aim 1 Full Sample Analyses

### Tables - Change in Outcomes

#### Unweighted Changes in PTSD Checklist Score

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	63.0322	62.2287	-0.8034	(-1.052,-0.5549)	<.0001	-1.27466
Quetiapine	62.8861	62.3605	-0.5256	(-0.845,-0.2062)	0.0013	-0.83582
Risperidone	63.4813	62.0242	-1.4571	(-1.9349,-0.9794)	<.0001	-2.29535
Olanzapine	63.5154	62.4815	-1.0339	(-2.1308,0.063)	0.0646	-1.6278
Mirtazapine	61.9693	61.1898	-0.7795	(-1.0683,-0.4907)	<.0001	-1.25795
Prazosin	62.7116	61.6026	-1.109	(-1.2926,-0.9254)	<.0001	-1.76839
Tricyclics	61.9186	61.1157	-0.8029	(-1.2903,-0.3156)	0.0013	-1.29674
Amitriptyline	61.8764	61.0779	-0.7985	(-1.302,-0.295)	0.0019	-1.29046
Imipramine	63.2522	62.3526	-0.8997	(-2.9287,1.1294)	0.3798	-1.42233

#### Propensity Score Weighted Changes in PTSD Checklist Score

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95% CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	63.0428	62.2498	-0.793	(-1.0413,-0.5447)	<.0001	-1.25789
Quetiapine	62.8983	62.3877	-0.5106	(-0.8294,-0.1918)	0.0017	-0.81179
Risperidone	63.4568	62.0103	-1.4465	(-1.9233,-0.9697)	<.0001	-2.27947
Olanzapine	63.5244	62.5228	-1.0016	(-2.106,0.1028)	0.0753	-1.57672
Mirtazapine	62.0705	61.2962	-0.7743	(-1.0621,-0.4865)	<.0001	-1.24749
Prazosin	62.7146	61.6237	-1.0909	(-1.2751,-0.9068)	<.0001	-1.73953
Tricyclics	62.183	61.2574	-0.9257	(-1.4148,-0.4365)	0.0002	-1.48861
Amitriptyline	62.1441	61.2313	-0.9128	(-1.4183,-0.4073)	0.0004	-1.4688
Imipramine	63.3189	62.2198	-1.0992	(-3.1268,0.9284)	0.2836	-1.7359

#### Number of Windows for PTSD Checklist Score

Medication Group	n(pre)	n(post)
<b>Antipsychotics</b>	10899	11462
Quetiapine	7141	7471
Risperidone	3114	3367
Olanzapine	644	624
Mirtazapine	9037	8755
Prazosin	21584	21101
Tricyclics	3209	2977
Amitriptyline	3047	2838
Imipramine	162	139

#### Number of PTSD Checklist Scores per Person

	Pre-Index Year	Post-Index Year
	Median (IQR)	Median (IQR)
<b>Antipsychotics</b>	1(1,2)	1(1,3)
<b>Mirtazapine</b>	1(1,2)	1(1,3)
<b>Prazosin</b>	1(1,2)	1(1,3)
<b>Tricyclics</b>	1(1,2)	1(1,2)

### Unweighted Changes in Primary Care PTSD Score

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	2.8127	2.7648	-0.04791	(-0.0803, -0.0155)	0.0038	-1.70336
Quetiapine	2.8267	2.7999	-0.02679	(-0.0663, 0.0128)	0.1845	-0.94765
Risperidone	2.7814	2.6981	-0.08322	(-0.1451, -0.0213)	0.0085	-2.99199
Olanzapine	2.7934	2.6854	-0.10801	(-0.2483, 0.0323)	0.1322	-3.86648
Mirtazapine	2.6412	2.5596	-0.08158	(-0.1215, -0.0417)	<.0001	-3.08874
Prazosin	2.9925	2.9847	-0.00779	(-0.0346, 0.019)	0.5687	-0.26034
Tricyclics	2.5797	2.4484	-0.13124	(-0.1929, -0.0696)	<.0001	-5.08765
Amitriptyline	2.5834	2.4518	-0.13154	(-0.1945, -0.0685)	<.0001	-5.0917
Imipramine	2.4914	2.3772	-0.11428	(-0.4178, 0.1893)	0.4627	-4.58682

### Propensity Score Weighted Changes in Primary Care PTSD Score

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	2.8081	2.7593	-0.04875	(-0.0813, -0.0162)	0.0033	-1.73608
Quetiapine	2.823	2.793	-0.02992	(-0.0696, 0.0098)	0.1397	-1.05987
Risperidone	2.7758	2.6991	-0.07669	(-0.1386, -0.0147)	0.0153	-2.76267
Olanzapine	2.7842	2.6682	-0.11593	(-0.2566, 0.0247)	0.1071	-4.16375
Mirtazapine	2.6913	2.6124	-0.07882	(-0.1184, -0.0393)	<.0001	-2.92876
Prazosin	2.9626	2.9574	-0.00527	(-0.0323, 0.0217)	0.7021	-0.17799
Tricyclics	2.727	2.5453	-0.18172	(-0.2419, -0.1215)	<.0001	-6.66385
Amitriptyline	2.7358	2.5528	-0.18299	(-0.2444, -0.1216)	<.0001	-6.68866
Imipramine	2.5381	2.4047	-0.13338	(-0.4349, 0.1681)	0.3885	-5.255

### Number of Windows for Primary Care PTSD Score

Medication Group	n(pre)	n(post)
<b>Antipsychotics</b>	23656	13343
Quetiapine	16004	8828
Risperidone	6367	3784
Olanzapine	1285	731
Mirtazapine	17357	9143
Prazosin	33158	14901
Tricyclics	6935	4179
Amitriptyline	6654	3987
Imipramine	281	192

**Unweighted Changes in Mental Health ER Visits (per 100 patient years)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	17.7207	14.079	-3.64175	(-4.3339,-2.9496)	<.0001	-20.5508
<b>Quetiapine</b>	18.4984	14.6128	-3.88558	(-4.776,-2.9952)	<.0001	-21.0049
<b>Risperidone</b>	14.896	12.0548	-2.84123	(-3.9443,-1.7381)	<.0001	-19.0738
<b>Olanzapine</b>	22.1483	17.5143	-4.63403	(-7.83,-1.4381)	0.0045	-20.9227
<b>Mirtazapine</b>	14.0529	11.119	-2.93386	(-3.5987,-2.269)	<.0001	-20.8773
<b>Prazosin</b>	12.1304	9.5314	-2.59901	(-3.0715,-2.1265)	<.0001	-21.4256
<b>Tricyclics</b>	7.7329	6.8641	-0.86881	(-1.6027,-0.1349)	0.0203	-11.2353
<b>Amitriptyline</b>	7.7689	6.8355	-0.93342	(-1.684,-0.1828)	0.0148	-12.0148
<b>Imipramine</b>	7.0448	7.4108	0.36597	(-3.145,3.8769)	0.8382	5.1948

**Propensity Score Weighted Changes in Mental Health ER Visits (per 100 patient years)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	15.921	12.7687	-3.15236	(-3.7959,-2.5088)	<.0001	-19.7999
<b>Quetiapine</b>	16.5777	13.2235	-3.35425	(-4.1833,-2.5252)	<.0001	-20.2335
<b>Risperidone</b>	13.5057	11.0509	-2.45477	(-3.4839,-1.4256)	<.0001	-18.1758
<b>Olanzapine</b>	19.9648	15.7843	-4.18049	(-7.1027,-1.2583)	0.0051	-20.9393
<b>Mirtazapine</b>	13.9432	11.1457	-2.79751	(-3.4568,-2.1382)	<.0001	-20.0637
<b>Prazosin</b>	12.826	10.0428	-2.78317	(-3.275,-2.2914)	<.0001	-21.6995
<b>Tricyclics</b>	9.7075	8.1257	-1.58183	(-2.4169,-0.7467)	0.0002	-16.2949
<b>Amitriptyline</b>	9.7444	8.0753	-1.66904	(-2.5234,-0.8147)	0.0001	-17.1282
<b>Imipramine</b>	9.0535	9.0188	-0.03472	(-3.9977,3.9283)	0.9863	-0.3835

**Number of Windows for Mental Health ER Visits**

Medication Group	n(pre)	n(post)
<b>Antipsychotics</b>	70900	70900
<b>Quetiapine</b>	47123	47123
<b>Risperidone</b>	19569	19569
<b>Olanzapine</b>	4208	4208
<b>Mirtazapine</b>	54672	54672
<b>Prazosin</b>	100269	100269
<b>Tricyclics</b>	21984	21984
<b>Amitriptyline</b>	20891	20891
<b>Imipramine</b>	1093	1093

**Unweighted Changes in Mental Health Hospitalizations (per 100 patient years)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	22.4852	16.8449	-5.64034	(-6.3, -4.9807)	<.0001	-25.0847
<b>Quetiapine</b>	23.3729	17.8512	-5.52172	(-6.3577, -4.6857)	<.0001	-23.6245
<b>Risperidone</b>	19.163	13.644	-5.51893	(-6.6069, -4.431)	<.0001	-28.8
<b>Olanzapine</b>	27.9943	20.461	-7.53327	(-10.716, -4.3506)	<.0001	-26.91
<b>Mirtazapine</b>	17.0636	13.2829	-3.78073	(-4.4399, -3.1215)	<.0001	-22.1567
<b>Prazosin</b>	15.4195	11.4183	-4.00124	(-4.4576, -3.5449)	<.0001	-25.9492
<b>Tricyclics</b>	9.1658	7.6146	-1.55113	(-2.2812, -0.821)	<.0001	-16.9231
<b>Amitriptyline</b>	9.1379	7.6157	-1.52219	(-2.2708, -0.7736)	<.0001	-16.6579
<b>Imipramine</b>	9.6981	7.5938	-2.1043	(-5.4057, 1.1971)	0.2118	-21.6981

**Propensity Score Weighted Changes in Mental Health Hospitalizations (per 100 patient years)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	19.9603	15.1682	-4.79217	(-5.4074, -4.1769)	<.0001	-24.0085
<b>Quetiapine</b>	20.7357	16.0879	-4.64781	(-5.4283, -3.8673)	<.0001	-22.4145
<b>Risperidone</b>	17.0661	12.37	-4.69616	(-5.7141, -3.6782)	<.0001	-27.5174
<b>Olanzapine</b>	24.9373	18.0372	-6.90007	(-9.8394, -3.9608)	<.0001	-27.6697
<b>Mirtazapine</b>	16.8256	13.2489	-3.57677	(-4.2256, -2.9279)	<.0001	-21.2579
<b>Prazosin</b>	16.3002	12.0024	-4.29779	(-4.7729, -3.8227)	<.0001	-26.3664
<b>Tricyclics</b>	12.4484	9.3126	-3.13582	(-3.985, -2.2866)	<.0001	-25.1905
<b>Amitriptyline</b>	12.4039	9.3178	-3.08605	(-3.9564, -2.2157)	<.0001	-24.8797
<b>Imipramine</b>	13.2387	9.2198	-4.01882	(-7.8858, -0.1518)	0.0419	-30.3567

**Number of Windows for Mental Health Hospitalizations**

Medication Group	n(pre)	n(post)
<b>Antipsychotics</b>	70900	70900
<b>Quetiapine</b>	47123	47123
<b>Risperidone</b>	19569	19569
<b>Olanzapine</b>	4208	4208
<b>Mirtazapine</b>	54672	54672
<b>Prazosin</b>	100269	100269
<b>Tricyclics</b>	21984	21984
<b>Amitriptyline</b>	20891	20891
<b>Imipramine</b>	1093	1093

**Unweighted Changes in Suicidal Thought (% endorsing)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	21.498	18.6292	-2.86882	(-3.6526,-2.0851)	<.0001	-13.3446
<b>Quetiapine</b>	21.6121	18.6679	-2.94427	(-3.9028,-1.9858)	<.0001	-13.6232
<b>Risperidone</b>	21.0402	17.9611	-3.07911	(-4.57,-1.5882)	<.0001	-14.6344
<b>Olanzapine</b>	22.3269	21.3391	-0.98775	(-4.3233,2.3478)	0.5619	-4.424
<b>Mirtazapine</b>	19.1216	16.9783	-2.14332	(-2.9897,-1.2969)	<.0001	-11.2089
<b>Prazosin</b>	19.305	16.6442	-2.66075	(-3.2676,-2.0539)	<.0001	-13.7827
<b>Tricyclics</b>	16.2504	15.2062	-1.04418	(-2.3412,0.2528)	0.1147	-6.4256
<b>Amitriptyline</b>	16.4168	15.2074	-1.20933	(-2.5438,0.1251)	0.0758	-7.3664
<b>Imipramine</b>	13.283	15.1844	1.90145	(-3.6156,7.4185)	0.5005	14.3149

**Propensity Score Weighted Changes in Suicidal Thought (% endorsing)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	20.804	18.174	-2.63	(-3.4066,-1.8534)	<.0001	-12.6418
<b>Quetiapine</b>	20.9298	18.2777	-2.65205	(-3.6028,-1.7013)	<.0001	-12.6712
<b>Risperidone</b>	20.3441	17.3998	-2.9443	(-4.4183,-1.4703)	<.0001	-14.4725
<b>Olanzapine</b>	21.5466	20.7451	-0.8015	(-4.1012,2.4982)	0.6342	-3.7199
<b>Mirtazapine</b>	19.0202	17.1512	-1.869	(-2.7157,-1.0223)	<.0001	-9.8264
<b>Prazosin</b>	19.4419	16.8043	-2.63756	(-3.245,-2.0301)	<.0001	-13.5664
<b>Tricyclics</b>	17.1613	16.096	-1.0653	(-2.391,0.2604)	0.1154	-6.2076
<b>Amitriptyline</b>	17.2773	16.1747	-1.10268	(-2.4663,0.2609)	0.1131	-6.3822
<b>Imipramine</b>	15.1874	14.7973	-0.39013	(-6.0549,5.2746)	0.8928	-2.5688

**Number of Windows for Suicidal Thought**

Medication Group	n(pre)	n(post)
<b>Antipsychotics</b>	18546	16041
<b>Quetiapine</b>	12435	10700
<b>Risperidone</b>	5039	4407
<b>Olanzapine</b>	1072	934
<b>Mirtazapine</b>	15261	12341
<b>Prazosin</b>	31034	23591
<b>Tricyclics</b>	5613	4967
<b>Amitriptyline</b>	5315	4702
<b>Imipramine</b>	298	265

**Unweighted Changes in Suicidal Plan (% endorsing)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	12.455	12.0051	-0.44988	(-1.607 ,0.7073)	0.4461	-3.612
<b>Quetiapine</b>	12.958	12.0997	-0.85829	(-2.3097 ,0.5931)	0.2467	-6.6237
<b>Risperidone</b>	11.8999	11.96	0.06008	(-2.085 ,2.2052)	0.9562	0.5049
<b>Olanzapine</b>	9.5777	11.2754	1.69771	(-2.5231 ,5.9185)	0.4319	17.7256
<b>Mirtazapine</b>	11.6224	11.039	-0.58338	(-1.8392 ,0.6724)	0.3627	-5.0194
<b>Prazosin</b>	11.1853	10.4095	-0.77576	(-1.6764 ,0.1249)	0.0915	-6.9356
<b>Tricyclics</b>	9.1634	8.9461	-0.2173	(-2.0931 ,1.6585)	0.8205	-2.3714
<b>Amitriptyline</b>	9.4463	9.134	-0.31234	(-2.2666 ,1.642)	0.7542	-3.3064
<b>Imipramine</b>	4.1667	5.9783	1.81159	(-4.2252 ,7.8484)	0.5596	43.4783

**Propensity Score Weighted Changes in Suicidal Plan (% endorsing)**

Medication Group	Pre-Index Year	Post-Index Year	Absolute Change (post minus pre)	95%CI	P-value	Percent Change (post minus pre)
<b>Antipsychotics</b>	11.9033	11.6159	-0.2874	(-1.4261 ,0.8513)	0.6209	-2.4144
<b>Quetiapine</b>	12.3926	11.6542	-0.7384	(-2.1653 ,0.6885)	0.3106	-5.9584
<b>Risperidone</b>	11.3861	11.6179	0.23182	(-1.882 ,2.3456)	0.8299	2.036
<b>Olanzapine</b>	9.0338	11.2215	2.18767	(-1.9881 ,6.3634)	0.3063	24.2164
<b>Mirtazapine</b>	11.4468	10.9651	-0.48169	(-1.7316 ,0.7682)	0.4502	-4.2081
<b>Prazosin</b>	11.4188	10.539	-0.87982	(-1.7857 ,0.0261)	0.0571	-7.705
<b>Tricyclics</b>	9.4828	9.12	-0.36273	(-2.2551 ,1.5296)	0.7073	-3.8252
<b>Amitriptyline</b>	9.8013	9.4131	-0.38827	(-2.3662 ,1.5897)	0.7006	-3.9614
<b>Imipramine</b>	4.1586	4.6708	0.51221	(-5.0114 ,6.0358)	0.8567	12.317

**Number of Windows for Suicidal Plan**

Medication Group	n(pre)	n(post)
<b>Antipsychotics</b>	6111	5067
<b>Quetiapine</b>	4020	3238
<b>Risperidone</b>	1720	1502
<b>Olanzapine</b>	371	327
<b>Mirtazapine</b>	5053	3914
<b>Prazosin</b>	9717	7142
<b>Tricyclics</b>	1754	1545
<b>Amitriptyline</b>	1660	1453
<b>Imipramine</b>	94	92

**Models - Change in Outcomes**

For all subsequent model tables:

**Model 0: Unadjusted**

**Model 1: Adjusted for sociodemographics, comorbidities, prescribing facility factors, service utilization factors**

**Model 2: Adding days on index medication**

**Model 3: Model 1 covariates + days on index med + other augmenting classes**

**Model 4: Model 1 covariates + days on index med + other augmenting classes + dose of augmenting med**

**Model 5: Propensity weighted**

**Model 6: Propensity weighted + days on index med**

**Model 7: Propensity weighted + days on index med + other augmenting classes**

**Model 8: Propensity weighted + days on index med + other augmenting classes + dose of augmenting med**

**Unadjusted and Adjusted Models for Change in PTSD Checklist Score by Augmenting Medication Group**

PTSD Checklist	Model 0			Model 1			Model 2		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.02	(-0.3617,0.4021)	0.92	0.02	(-0.3585,0.404)	0.91	0.02291	(-0.3583,0.4042)	0.9062
Prazosin	-0.32	(-0.6338,-0.0106)	0.04	-0.36	(-0.6661,-0.0439)	0.03	-0.3544	(-0.6655,-0.0433)	0.0256
Tricyclics	0.02	(-0.5339,0.5663)	0.95	0.001	(-0.5481,0.5502)	1.00	-0.00066	(-0.5498,0.5485)	0.9981
PTSD Checklist	Model 3			Model 4			Model 5		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.00911	(-0.3898,0.3716)	0.9626	-0.03691	(-0.4176,0.3438)	0.8493	0.003	(-0.3621,0.3687)	0.99
Prazosin	-0.4017	(-0.7124,-0.0909)	0.0113	-0.4069	(-0.7177,-0.0962)	0.0103	-0.32	(-0.6717,0.0319)	0.07
Tricyclics	-0.03009	(-0.5784,0.5182)	0.9143	-0.02894	(-0.5772,0.5193)	0.9176	-0.15	(-0.525,0.2327)	0.45
PTSD Checklist	Model 6			Model 7			Model 8		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.003588	(-0.3618,0.3689)	0.9846	-0.03019	(-0.3949,0.3345)	0.8711	-0.05355	(-0.4183,0.3112)	0.7735
Prazosin	-0.3187	(-0.6705,0.033)	0.0757	-0.3769	(-0.728,-0.0257)	0.0354	-0.3814	(-0.7326,-0.0303)	0.0333
Tricyclics	-0.1466	(-0.5255,0.2323)	0.4482	-0.2049	(-0.5831,0.1733)	0.2882	-0.2044	(-0.5825,0.1738)	0.2894



**Unadjusted and Adjusted Models for Change in Primary Care PTSD Score by Augmenting Medication Group**

Primary Care PTSD	Model 0			Model 1			Model 2		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.03367	(-0.0767, 0.0093)	0.1248	-0.02893	(-0.0723, 0.0144)	0.1912	-0.02893	(-0.0723, 0.0145)	0.1912
Prazosin	0.04012	(-0.0016, 0.0819)	0.0596	0.03191	(-0.0086, 0.0724)	0.1222	0.03193	(-0.0085, 0.0724)	0.1218
Tricyclics	-0.08333	(-0.1417, -0.0249)	0.0052	-0.07394	(-0.1317, -0.0162)	0.0121	-0.07392	(-0.1317, -0.0161)	0.0122
Primary Care PTSD	Model 3			Model 4			Model 5		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.02922	(-0.0718, 0.0133)	0.1782	-0.02903	(-0.0696, 0.0116)	0.1611	-0.03007	(-0.075, 0.0149)	0.1898
Prazosin	0.01967	(-0.0194, 0.0588)	0.3239	0.0204	(-0.019, 0.0598)	0.3104	0.04348	(-0.0064, 0.0933)	0.0875
Tricyclics	-0.06912	(-0.1265, -0.0117)	0.0182	-0.07	(-0.1278, -0.0122)	0.0175	-0.13297	(-0.1801, -0.0859)	<.0001
Primary Care PTSD	Model 6			Model 7			Model 8		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.0299	(-0.0747, 0.0149)	0.1908	-0.02959	(-0.0728, 0.0136)	0.1792	-0.02922	(-0.0695, 0.0111)	0.1552
Prazosin	0.04352	(-0.0066, 0.0936)	0.0888	0.02313	(-0.0241, 0.0704)	0.3374	0.02428	(-0.0236, 0.0721)	0.3201
Tricyclics	-0.13267	(-0.1797, -0.0857)	<.0001	-0.12439	(-0.1701, -0.0787)	<.0001	-0.12607	(-0.1722, -0.08)	<.0001

**Unadjusted and Adjusted Models for Change in Mental Health ER Visits by Augmenting Medication Group**

Mental Health ER	Model 0			Model 1			Model 2		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.70789	(-11.1508, 12.5666)	0.9069	0.15292	(-1.9639, 2.2697)	0.8874	0.16572	(-2.1276, 2.4591)	0.8874
Prazosin	1.04274	(-4.6679, 6.7534)	0.7204	0.2398	(-0.8454, 1.325)	0.6649	0.24627	(-0.8679, 1.3605)	0.6649
Tricyclics	2.77294	(-0.2231, 5.7689)	0.0697	0.98052	(0.1051, 1.8559)	0.0281	0.98795	(0.1061, 1.8698)	0.0281
Mental Health ER	Model 3			Model 4			Model 5		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.3073	(-3.9273, 4.5419)	0.8869	0.43603	(-5.5758, 6.4478)	0.887	0.35484	(-7.0436, 7.7533)	0.9251
Prazosin	0.32922	(-1.1539, 1.8123)	0.6635	0.33939	(-1.1904, 1.8691)	0.6637	0.36918	(-0.716, 1.4544)	0.5049
Tricyclics	1.11058	(0.1236, 2.0976)	0.0274	1.13877	(0.1261, 2.1514)	0.0275	1.57053	(-1.2207, 4.3617)	0.2701
Mental Health ER	Model 6			Model 7			Model 8		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.44658	(-8.84, 9.7331)	0.9249	0.77338	(-14.8926, 16.4393)	0.9229	1.35195	(-25.94, 28.6439)	0.9227
Prazosin	0.41246	(-0.7968, 1.6217)	0.5038	0.48632	(-0.9025, 1.8752)	0.4925	0.53242	(-0.9829, 2.0477)	0.491
Tricyclics	1.64126	(-1.2679, 4.5505)	0.2688	1.86622	(-1.3561, 5.0886)	0.2563	1.95843	(-1.4115, 5.3284)	0.2547

### Unadjusted and Adjusted Models for Change in Mental Health Hospitalizations by Augmenting Medication Group

Mental Health Hospitalization	Model 0			Model 1			Model 2		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	1.85961	(-0.8011, 4.5203)	0.1707	0.53104	(-0.0862, 1.1483)	0.0917	0.52435	(-0.0851, 1.1338)	0.0917
Prazosin	1.6391	(-5.1264, 8.4046)	0.6349	0.3493	(-0.8219, 1.5205)	0.5588	0.3453	(-0.8124, 1.503)	0.5588
Tricyclics	4.08921	(0.2278, 7.9506)	0.0379	1.2691	(0.2956, 2.2426)	0.0106	1.26409	(0.2945, 2.2337)	0.0106
Mental Health Hospitalization	Model 3			Model 4			Model 5		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.74035	(-0.1088, 1.5895)	0.0875	0.96747	(-0.1399, 2.0749)	0.0868	1.2154	(-0.6773, 3.1081)	0.2082
Prazosin	0.47286	(-1.0916, 2.0373)	0.5536	0.49204	(-1.1327, 2.1168)	0.5528	0.49439	(-0.3905, 1.3793)	0.2735
Tricyclics	1.46837	(0.3569, 2.5798)	0.0096	1.51979	(0.3717, 2.6679)	0.0095	1.65635	(-4.8107, 8.1234)	0.6157
Mental Health Hospitalization	Model 6			Model 7			Model 8		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	1.28982	(-0.7164, 3.2961)	0.2076	1.73267	(-0.8999, 4.3652)	0.197	2.63405	(-1.3549, 6.623)	0.1956
Prazosin	0.53511	(-0.4216, 1.4918)	0.273	0.6133	(-0.4577, 1.6844)	0.2617	0.68328	(-0.5061, 1.8726)	0.2602
Tricyclics	1.73269	(-5.0247, 8.49)	0.6153	2.26508	(-6.3636, 10.8938)	0.6069	2.38642	(-6.6747, 11.4476)	0.6057

### Unadjusted and Adjusted Models for Change in Suicidal Thought by Augmenting Medication Group

Suicidal Thought	Model 0			Model 1			Model 2		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.7255	(-0.8827, 2.3337)	0.3766	0.59758	(-0.81, 2.0052)	0.4054	0.59288	(-0.8024, 1.9882)	0.4049
Prazosin	0.20808	(-8.0353, 8.4515)	0.9605	0.02725	(-0.1579, 0.2124)	0.773	0.02464	(-0.1422, 0.1915)	0.7723
Tricyclics	1.82464	(-0.1585, 3.8077)	0.0713	1.72243	(0.0279, 3.4169)	0.0463	1.72361	(0.0325, 3.4147)	0.0458
Suicidal Thought	Model 3			Model 4			Model 5		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.5623	(-0.9955, 2.1201)	0.4793	0.66117	(-1.4245, 2.7469)	0.5344	0.761	(-0.6143, 2.1363)	0.2781
Prazosin	-0.09563	(-0.4712, 0.2799)	0.6177	-0.08565	(-0.4326, 0.2613)	0.6285	-0.00756	(-0.0625, 0.0474)	0.7874
Tricyclics	1.71269	(-0.0186, 3.444)	0.0525	1.73283	(-0.0318, 3.4975)	0.0543	1.5647	(0.2452, 2.8842)	0.0201
Suicidal Thought	Model 6			Model 7			Model 8		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	0.76082	(-0.6142, 2.1359)	0.2782	0.69371	(-0.7931, 2.1805)	0.3605	0.80436	(-1.1973, 2.806)	0.4309
Prazosin	-0.00766	(-0.0634, 0.048)	0.7874	-0.24261	(-1.0616, 0.5764)	0.5615	-0.23242	(-1.0357, 0.5709)	0.5707
Tricyclics	1.56464	(0.2452, 2.884)	0.0201	1.52064	(0.1639, 2.8774)	0.028	1.53647	(0.1518, 2.9212)	0.0297

**Unadjusted and Adjusted Models for Change in Suicidal Plan by Augmenting Medication Group**

Suicidal Plan	Model 0			Model 1			Model 2		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.1335	(-1.4978, 1.2308)	0.8479	-0.19964	(-1.7359, 1.3366)	0.799	-0.20033	(-1.7432, 1.3425)	0.7991
Prazosin	-0.32589	(-1.5299, 0.8782)	0.5958	-0.59641	(-1.8933, 0.7005)	0.3674	-0.59407	(-1.8904, 0.7022)	0.3691
Tricyclics	0.23257	(-3.52, 3.9852)	0.9033	0.20183	(-2.0706, 2.4742)	0.8618	0.21192	(-2.0692, 2.4931)	0.8555
Suicidal Plan	Model 3			Model 4			Model 5		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.21393	(-1.7067, 1.2789)	0.7788	-0.21477	(-1.6149, 1.1854)	0.7637	-0.19429	(-1.7601, 1.3716)	0.8079
Prazosin	-0.63105	(-1.9307, 0.6686)	0.3413	-0.63272	(-1.9428, 0.6774)	0.3439	-0.59242	(-2.1772, 0.9923)	0.4638
Tricyclics	0.19136	(-2.2174, 2.6001)	0.8763	0.19729	(-2.2584, 2.653)	0.8749	-0.07534	(-0.9349, 0.7842)	0.8636
Suicidal Plan	Model 6			Model 7			Model 8		
	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val	Diff to Ref	95% CI	p-val
Mirtazapine	-0.19541	(-1.779, 1.3881)	0.8089	-0.20346	(-1.6917, 1.2848)	0.7887	-0.19563	(-1.4756, 1.0843)	0.7645
Prazosin	-0.58782	(-2.1699, 0.9943)	0.4665	-0.68477	(-2.314, 0.9444)	0.4101	-0.68922	(-2.3396, 0.9611)	0.4131
Tricyclics	-0.06777	(-0.8907, 0.7552)	0.8718	-0.11575	(-1.0183, 0.7868)	0.8015	-0.11453	(-1.0182, 0.7892)	0.8038