

## Supplement

**Supplement Table 1. Full model results for analyses of subsequent total emergency department utilization among self-harm vs. general control patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.39	(1.3, 1.4)
Age	1.03	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.22	(1.2, 1.3)
Hispanic	0.94	(0.9, 1.0)
Asian/Pacific Islander	0.49	(0.4, 0.6)
Other	0.86	(0.8, 0.9)
Insurance type (ref: private)		
Medicaid	1.49	(1.4, 1.5)
Self-pay	1.23	(1.1, 1.3)
Other	1.32	(1.2, 1.4)
Disposition at index visit (ref: discharged home)		
Admitted	1.05	(1.0, 1.1)
Other	1.09	(1.0, 1.2)
Patient ED utilization, 2006-09		
Total visits, mean $\pm$ SD	1.15	(1.1, 1.2)
Any mental health visit	1.34	(1.3, 1.4)
Any substance use visit	1.07	(0.9, 1.2)
Dispersion parameter	1.20	(1.2, 1.2)

**Supplement Table 2. Full model results for analyses of subsequent emergency department utilization for psychiatric complaints among self-harm vs. general control patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	3.64	(3.1, 4.2)
Age	1.02	(1.0, 1.1)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	0.94	(0.8, 1.1)
Hispanic	0.85	(0.7, 1.0)
Asian/Pacific Islander	0.36	(0.3, 0.5)
Other	0.82	(0.6, 1.1)
Insurance type (ref: private)		
Medicaid	1.25	(1.1, 1.4)
Self-pay	0.97	(0.8, 1.1)
Other	0.87	(0.7, 1.1)
Disposition at index visit (ref: discharged home)		
Admitted	1.76	(1.5, 2.0)
Other	1.14	(0.9, 1.5)
Patient ED utilization, 2006-09		
Total visits, mean $\pm$ SD	1.06	(1.0, 1.1)
Any mental health visit	2.72	(2.3, 3.2)
Any substance use visit	1.74	(1.3, 2.3)
Dispersion parameter	5.42	(5.0, 5.8)

**Supplement Table 3. Full model results for analyses of subsequent emergency**

**department utilization for non-psychiatric complaints among self-harm vs. general control patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.27	(1.2, 1.3)
Age	1.03	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.23	(1.2, 1.3)
Hispanic	0.94	(0.9, 1.0)
Asian/Pacific Islander	0.50	(0.4, 0.6)
Other	0.86	(0.8, 0.9)
Insurance type (ref: private)		
Medicaid	1.52	(1.5, 1.5)
Self-pay	1.25	(1.2, 1.3)
Other	1.36	(1.2, 1.5)
Disposition at index visit (ref: discharged home)		
Admitted	0.99	(0.9, 1.0)
Other	1.09	(1.0, 1.2)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.15	(1.1, 1.1)
Any mental health visit	1.26	(1.2, 1.3)
Any substance use visit	1.04	(0.9, 1.1)
Dispersion parameter	1.19	(1.2, 1.3)

**Supplement Table 4. Full model results for analyses of subsequent total inpatient admissions among self-harm vs. general control patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.81	(1.7, 1.9)
Age	1.06	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.25	(1.1, 1.3)
Hispanic	1.09	(1.0, 1.1)
Asian/Pacific Islander	0.63	(0.5, 0.8)
Other	0.93	(0.8, 1.1)
Insurance type (ref: private)		
Medicaid	1.36	(1.3, 1.4)
Self-pay	1.05	(0.9, 1.1)
Other	1.28	(1.0, 1.3)
Disposition at index visit (ref: discharged home)		
Admitted	1.80	(1.6, 2.0)
Other	1.35	(1.1, 1.7)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.08	(1.1, 1.1)
Any mental health visit	1.82	(1.6, 2.0)
Any substance use visit	1.20	(1.0, 1.4)
Dispersion parameter	2.25	(2.1, 2.3)

**Supplement Table 5. Full model results for analyses of subsequent inpatient admissions for psychiatric complaints among self-harm vs. general control patients.**

	IRR <sub>adi</sub>	95% CI
Self-harm patient group	5.55	(4.6, 6.6)
Age	0.96	(0.9, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	0.97	(0.8, 1.2)
Hispanic	0.70	(0.6, 0.9)
Asian/Pacific Islander	0.51	(0.3, 0.8)
Other	0.69	(0.5, 1.0)
Insurance type (ref: private)		
Medicaid	1.27	(1.0, 1.5)
Self-pay	1.10	(0.8, 1.4)
Other	0.82	(0.6, 1.1)
Disposition at index visit (ref: discharged home)		
Admitted	2.71	(2.2, 3.2)
Other	1.51	(1.0, 2.2)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.03	(1.0, 1.0)
Any mental health visit	3.62	(2.8, 4.6)
Any substance use visit	1.73	(1.2, 2.4)
Dispersion parameter	6.89	(6.2, 7.0)

**Supplement Table 6. Full model results for analyses of subsequent inpatient admissions for non-psychiatric complaints among self-harm vs. general control patients.**

	IRR <sub>adi</sub>	95% CI
Self-harm patient group	1.04	(0.9, 1.1)
Age	1.10	(1.1, 1.1)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.30	(1.1, 1.5)
Hispanic	1.24	(1.1, 1.3)
Asian/Pacific Islander	0.67	(0.5, 0.8)
Other	1.06	(0.9, 1.2)
Insurance type (ref: private)		
Medicaid	1.35	(1.2, 1.4)
Self-pay	1.04	(0.9, 1.2)
Other	1.48	(1.1, 1.9)
Disposition at index visit (ref: discharged home)		
Admitted	1.42	(1.2, 1.6)
Other	1.25	(1.0, 1.5)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.09	(1.1, 1.2)
Any mental health visit	1.28	(1.1, 1.4)
Any substance use visit	1.13	(0.9, 1.3)
Dispersion parameter	2.21	(2.0, 2.2)

**Supplement Table 7. Full model results for analyses of subsequent total inpatient costs among self-harm vs. general control patients.**

	Exp(b) <sup>a</sup>	95% CI
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Self-harm patient group	1.21	(1.1, 1.3)
Age	1.00	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.13	(1.0, 1.3)
Hispanic	0.92	(0.8, 1.0)
Asian/Pacific Islander	1.13	(0.7, 1.8)
Other	0.95	(0.8, 1.1)
Insurance type (ref: private)		
Medicaid	1.03	(0.9, 1.1)
Self-pay	0.92	(0.8, 1.0)
Other	1.18	(0.9, 1.5)
Disposition at index visit (ref: discharged home)		
Admitted	1.47	(1.3, 1.6)
Other	1.13	(0.9, 1.4)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.04	(1.0, 1.0)
Any mental health visit	1.42	(1.2, 1.6)
Any substance use visit	1.05	(0.9, 1.2)

<sup>a</sup> Exp(b) is interpreted as the multiplicative effect on mean costs associated with being in the self-harm patient group vs. the control patient group.

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**Supplement Table 8. Full model results for analyses of subsequent inpatient costs for psychiatric complaints among self-harm vs. general control patients.**

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	Exp(b) <sup>a</sup>	95% CI
Self-harm patient group	3.98	(3.3, 4.7)
Age	0.92	(0.9, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	0.80	(0.6, 1.0)
Hispanic	0.61	(0.5, 0.8)
Asian/Pacific Islander	0.63	(0.4, 1.0)
Other	0.77	(0.5, 1.1)
Insurance type (ref: private)		
Medicaid	0.94	(0.7, 1.1)
Self-pay	1.01	(0.7, 1.4)
Other	0.70	(0.5, 1.0)
Disposition at index visit (ref: discharged home)		
Admitted	2.27	(1.9, 2.7)
Other	1.26	(0.8, 1.7)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.00	(1.0, 1.0)
Any mental health visit	2.91	(2.2, 3.7)
Any substance use visit	1.63	(1.2, 2.1)

<sup>a</sup> Exp(b) is interpreted as the multiplicative effect on mean costs associated with being in the self-harm patient group vs. the control patient group.

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**Supplement Table 9. Full model results for analyses of subsequent inpatient costs for non-psychiatric complaints among self-harm vs. general control patients.**

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	Exp(b) <sup>a</sup>	95% CI
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Self-harm patient group	0.70	(0.6, 0.8)
Age	1.03	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.12	(0.9, 1.3)
Hispanic	1.00	(0.9, 1.0)
Asian/Pacific Islander	1.25	(0.7, 2.1)
Other	1.05	(0.9, 1.2)
Insurance type (ref: private)		
Medicaid	1.00	(0.9, 1.1)
Self-pay	0.89	(0.8, 1.0)
Other	1.44	(1.0, 2.0)
Disposition at index visit (ref: discharged home)		
Admitted	1.14	(1.0, 1.3)
Other	1.08	(0.8, 1.4)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.05	(1.0, 1.0)
Any mental health visit	1.00	(0.8, 1.1)
Any substance use visit	0.97	(0.8, 1.2)

<sup>a</sup> Exp(b) is interpreted as the multiplicative effect on mean costs associated with being in the self-harm patient group vs. the control patient group.

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**Supplement Table 10. Full model results for analyses of subsequent total emergency department utilization among self-harm vs. psychiatric patients.**

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	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.03	(0.9, 1.1)

Age	1.04	(1.03, 1.05)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.22	(1.1, 1.3)
Hispanic	0.88	(0.8, 0.9)
Asian/Pacific Islander	0.58	(0.5, 0.7)
Other	0.83	(0.8, 0.9)
Insurance type (ref: private)		
Medicaid	1.46	(1.4, 1.5)
Self-pay	1.16	(1.1, 1.2)
Other	1.45	(1.3, 1.6)
Disposition at index visit (ref: discharged home)		
Admitted	0.98	(0.9, 1.0)
Other	0.99	(0.9, 1.1)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	0.88	(0.8, 0.97)
\$50,000-\$74,999	1.01	(0.9, 1.06)
\$75,000-\$99,999	0.97	(0.9, 1.1)
≥\$100,000	0.73	(0.6, 0.9)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.12	(1.11, 1.13)
Any mental health visit	1.29	(1.2, 1.4)
Any substance use visit	1.06	(0.9, 1.2)
Dispersion parameter	1.23	(1.2, 1.3)

**Supplement Table 11. Full model results for analyses of subsequent emergency department utilization for psychiatric complaints among self-harm vs. psychiatric patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	0.87	(0.8, 0.9)
Age	1.04	(1.0, 1.0)

Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.29	(1.1, 1.5)
Hispanic	0.80	(0.7, 0.9)
Asian/Pacific Islander	0.84	(0.7, 1.1)
Other	0.92	(0.8, 1.1)
Insurance type (ref: private)		
Medicaid	1.40	(1.3, 1.5)
Self-pay	1.24	(1.1, 1.4)
Other	1.15	(0.9, 1.4)
Disposition at index visit (ref: discharged home)		
Admitted	1.61	(1.5, 1.7)
Other	1.13	(0.9, 1.3)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.06	(0.9, 1.2)
\$50,000-\$74,999	1.09	(1.0, 1.0)
\$75,000-\$99,999	1.19	(1.0, 1.3)
≥\$100,000	0.74	(0.5, 1.0)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.04	(1.0, 1.0)
Any mental health visit	2.26	(2.1, 2.4)
Any substance use visit	1.44	(1.2, 1.4)
Dispersion parameter	3.71	(3.5, 3.8)

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**Supplement Table 12. Full model results for analyses of subsequent emergency department utilization for non-psychiatric complaints among self-harm vs. psychiatric patients.**

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	IRR <sub>adi</sub>	95% CI
Self-harm patient group	1.08	(1.0, 1.1)
Age	1.05	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		

Non-Hispanic Black	1.19	(1.1, 1.2)
Hispanic	0.89	(0.8, 0.9)
Asian/Pacific Islander	0.53	(0.5, 0.6)
Other	0.81	(0.7, 0.9)
Insurance type (ref: private)		
Medicaid	1.48	(1.4, 1.5)
Self-pay	1.15	(1.1, 1.2)
Other	1.49	(1.3, 1.6)
Disposition at index visit (ref: discharged home)		
Admitted	0.87	(0.8, 0.9)
Other	0.95	(0.8, 1.0)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	0.85	(0.8, 0.9)
\$50,000-\$74,999	1.00	(1.0, 1.0)
\$75,000-\$99,999	0.93	(0.8, 1.0)
≥\$100,000	0.73	(0.6, 0.9)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.13	(1.1, 1.1)
Any mental health visit	1.16	(1.1, 1.2)
Any substance use visit	1.01	(0.9, 1.1)
Dispersion parameter	1.27	(1.2, 1.3)

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**Supplement Table 13. Full model results for analyses of subsequent total inpatient admissions among self-harm vs. psychiatric patients.**

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	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.12	(1.0, 1.1)
Age	1.02	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.29	(1.2, 1.3)
Hispanic	0.90	(0.8, 0.9)



Asian/Pacific Islander	0.79	(0.6, 0.9)
Other	0.98	(0.9, 1.0)
Insurance type (ref: private)		
Medicaid	1.35	(1.3, 1.3)
Self-pay	1.13	(1.0, 1.1)
Other	1.34	(1.1, 1.3)
Disposition at index visit (ref: discharged home)		
Admitted	1.76	(1.7, 1.8)
Other	1.21	(1.0, 1.2)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.03	(0.9, 1.0)
\$50,000-\$74,999	0.97	(0.9, 1.0)
\$75,000-\$99,999	0.99	(0.9, 1.0)
≥\$100,000	0.87	(0.7, 1.0)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.06	(1.0, 1.1)
Any mental health visit	1.79	(1.7, 1.8)
Any substance use visit	1.19	(1.1, 1.2)
Dispersion parameter	2.24	(2.1, 2.2)

**Supplement Table 14. Full model results for analyses of subsequent inpatient admissions for psychiatric complaints among self-harm vs. psychiatric patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.14	(1.0, 1.2)
Age	0.97	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.35	(1.2, 1.5)
Hispanic	0.74	(0.7, 0.8)

Asian/Pacific Islander	0.97	(0.7, 1.3)
Other	0.94	(0.8, 1.1)
Insurance type (ref: private)		
Medicaid	1.44	(1.3, 1.5)
Self-pay	1.30	(1.1, 1.5)
Other	1.15	(0.9, 1.4)
Disposition at index visit (ref: discharged home)		
Admitted	2.47	(2.3, 2.7)
Other	1.37	(1.1, 1.7)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.14	(0.9, 1.4)
\$50,000-\$74,999	1.05	(0.9, 1.1)
\$75,000-\$99,999	1.11	(0.9, 1.3)
≥\$100,000	1.02	(0.7, 1.4)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.02	(1.0, 1.0)
Any mental health visit	2.62	(2.4, 2.9)
Any substance use visit	1.49	(1.3, 1.7)
Dispersion parameter	5.30	(5.0, 5.5)

**Supplement Table 15. Full model results for analyses of subsequent inpatient admissions for non-psychiatric complaints among self-harm vs. psychiatric patients.**

	IRR <sub>adj</sub>	95% CI
Self-harm patient group	1.17	(1.1, 1.2)
Age	1.09	(1.1, 1.1)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.15	(1.0, 1.3)
Hispanic	1.06	(1.0, 1.1)

Asian/Pacific Islander	0.60	(0.5, 0.7)
Other	1.01	(0.8, 1.0)
Insurance type (ref: private)		
Medicaid	1.21	(1.1, 1.3)
Self-pay	0.98	(0.9, 1.1)
Other	1.54	(1.2, 1.9)
Disposition at index visit (ref: discharged home)		
Admitted	1.11	(1.0, 1.2)
Other	1.01	(0.8, 1.2)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.03	(0.8, 1.3)
\$50,000-\$74,999	0.90	(0.8, 1.0)
\$75,000-\$99,999	0.87	(0.8, 1.0)
≥\$100,000	0.70	(0.5, 1.0)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.10	(1.1, 1.1)
Any mental health visit	1.14	(1.0, 1.2)
Any substance use visit	1.00	(0.8, 1.0)
Dispersion parameter	2.42	(2.2, 2.6)

**Supplement Table 16. Full model results for analyses of subsequent total inpatient costs among self-harm vs. psychiatric patients.**

	Exp(b) <sup>a</sup>	95% CI
Self-harm patient group	1.06	(1.0, 1.1)
Age	1.01	(1.0, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.17	(1.1, 1.2)
Hispanic	0.88	(0.8, 1.0)

Asian/Pacific Islander	0.97	(0.8, 1.1)
Other	1.02	(0.9, 1.1)
Insurance type (ref: private)		
Medicaid	1.07	(1.0, 1.1)
Self-pay	1.06	(0.9, 1.1)
Other	1.23	(1.0, 1.4)
Disposition at index visit (ref: discharged home)		
Admitted	1.32	(1.2, 1.4)
Other	1.05	(0.9, 1.0)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.05	(0.9, 1.2)
\$50,000-\$74,999	0.98	(0.9, 1.0)
\$75,000-\$99,999	1.02	(0.9, 1.0)
≥\$100,000	1.04	(0.8, 1.3)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.02	(1.0, 1.0)
Any mental health visit	1.40	(1.3, 1.5)
Any substance use visit	1.12	(1.0, 1.2)

<sup>a</sup> Exp(b) is interpreted as the multiplicative effect on mean costs associated with being in the self-harm patient group vs. the control patient group.

**Supplement Table 17. Full model results for analyses of subsequent inpatient costs for psychiatric complaints among self-harm vs. psychiatric patients.**

	Exp(b) <sup>a</sup>	95% CI
Self-harm patient group	1.09	(1.0, 1.2)
Age	0.96	(0.9, 1.0)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	1.27	(1.1, 1.4)
Hispanic	0.76	(0.7, 0.8)
Asian/Pacific Islander	1.21	(0.9, 1.6)

Other	1.01	(0.9, 1.0)
Insurance type (ref: private)		
Medicaid	1.18	(1.1, 1.3)
Self-pay	1.25	(1.0, 1.4)
Other	0.92	(0.7, 1.1)
Disposition at index visit (ref: discharged home)		
Admitted	1.81	(1.7, 1.9)
Other	1.16	(0.9, 1.4)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.15	(0.9, 1.4)
\$50,000-\$74,999	1.06	(1.0, 1.1)
\$75,000-\$99,999	1.17	(1.0, 1.3)
≥\$100,000	1.18	(0.9, 1.5)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	0.98	(1.0, 1.0)
Any mental health visit	2.06	(1.9, 2.2)
Any substance use visit	1.45	(1.2, 1.6)
<sup>a</sup> Exp(b) is interpreted as the multiplicative effect on mean costs associated with being in the self-harm patient group vs. the control patient group.		

**Supplement Table 18. Full model results for analyses of subsequent inpatient costs for non-psychiatric complaints among self-harm vs. psychiatric patients.**

	Exp(b) <sup>a</sup>	95% CI
Self-harm patient group	1.11	(1.0, 1.2)
Age	1.08	(1.0, 1.1)
Race/ethnicity (ref: non-Hispanic White)		
Non-Hispanic Black	0.99	(0.9, 1.1)
Hispanic	1.00	(0.9, 1.1)
Asian/Pacific Islander	0.72	(0.6, 1.0)
Other	0.99	(0.8, 1.2)

Insurance type (ref: private)		
Medicaid	0.94	(0.8, 1.0)
Self-pay	0.88	(0.7, 1.0)
Other	1.52	(1.1, 2.0)
Disposition at index visit (ref: discharged home)		
Admitted	0.83	(0.7, 0.9)
Other	0.89	(0.7, 1.0)
Median income in patient ZIP code (ref: \$25,000-\$49,999)		
<\$25,000	1.17	(0.8, 1.6)
\$50,000-\$74,999	0.93	(0.8, 1.0)
\$75,000-\$99,999	0.90	(0.8, 1.0)
≥\$100,000	0.86	(0.6, 1.2)
Patient ED utilization, 2006-09		
Total visits, mean ± SD	1.07	(1.1, 1.1)
Any mental health visit	0.91	(0.8, 1.0)
Any substance use visit	0.89	(0.8, 1.0)

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<sup>a</sup> Exp(b) is interpreted as the multiplicative effect on mean costs associated with being in the self-harm patient group vs. the control patient group.

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