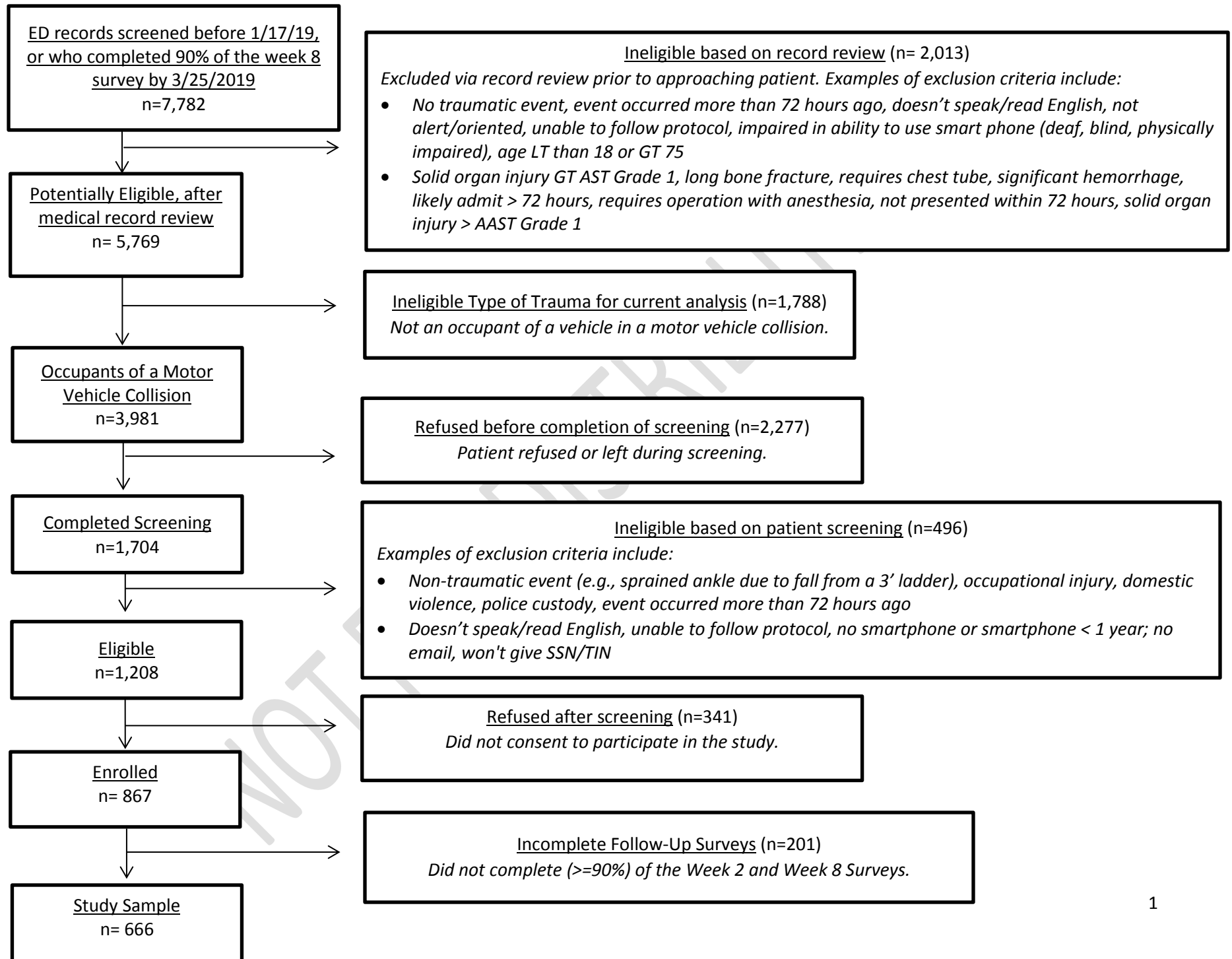


Figure 1. Flowchart of patients reviewed in records at the participating EDs as of 1/17/19.



**Table 1. Distributions of and Pearson correlations<sup>1</sup> between self-reports in the emergency department of peri-traumatic distress and dissociation and at two and eight weeks of depression, PTSD, post-concussive symptoms, and pain adverse post-traumatic neuropsychiatric sequelae (APNS) in the Freeze 1 AURORA MVC sample (n = 666)**

	Peri-traumatic		Two-week				Eight-week			
	Dist	Diss	MDE	PTSD	PCS	Pain	MDE	PTSD	PCS	Pain
I. Peri-traumatic										
Dist	1.00	.57	.28	.30	.17	.15	.18	.32	.12	.19
Diss	.57	1.00	.25	.34	.17	.18	.18	.26	.10	.14
II. Two-week										
MDE	.33	.32	1.00	.54	.23	.22	.53	.43	.17	.22
PTSD	.38	.38	.82	1.00	.38	.30	.38	.54	.27	.30
PCS	.16	.16	.39	.47	1.00	.39	.18	.32	.41	.30
Pain	.19	.19	.34	.40	.59	1.00	.15	.31	.35	.43
II. Eight-week										
MDE	.28	.28	.72	.63	.33	.30	1.00	.53	.23	.26
PTSD	.35	.32	.65	.73	.42	.40	.78	1.00	.36	.37
PCS	.16	.11	.31	.36	.60	.45	.44	.51	1.00	.44
Pain	.20	.11	.26	.33	.40	.57	.36	.45	.61	1.00
Prevalence (%) <sup>2</sup>	---	---	30.5	54.5	74.6	81.4	27.2	49.2	68.0	67.4

Abbreviations: dist, distress; diss, dissociation; MDE, major depressive episode; MVC, motor vehicle collision; pain, global pain; PCS, Post-Concussive Syndrome; PTSD, post-traumatic stress disorder

<sup>1</sup>The upper diagonal of the matrix shows the Pearson correlations with the dichotomous measures for the two-week and eight-week measures; the lower diagonal shows the Pearson correlations with the continuous versions of the two-week and eight-week measures.

<sup>2</sup>Prevalence of dichotomous measures of two-week and eight-week outcomes. The thresholds used were MDE (PROMIS network;  $\geq 60$ ), PTSD (PTSD Checklist;  $\geq 28$ ), PCS (Rivermead; 3 items with pre-post differences  $\geq 2$ ), and pain (0-10 global pain score;  $\geq 4$ ).

**Table 2. Distributions, univariate, and multivariate associations of socio-demographic characteristics with self-reported peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	% (SE)		Univariate associations				Multivariate associations			
			Distress		Dissociation		Distress		Dissociation	
			OR <sup>1</sup>	(95% CI)	OR <sup>1</sup>	(95% CI)	OR <sup>1</sup>	(95% CI)	OR <sup>1</sup>	(95% CI)
Age										
50+	18.3	(1.5)	0.1	(-0.2, 0.3)	-0.1	(-0.3, 0.2)	0.0	(-0.2, 0.3)	-0.1	(-0.4, 0.2)
35-49	28.7	(1.8)	0.1	(-0.2, 0.3)	-0.1	(-0.3, 0.1)	0.1	(-0.1, 0.3)	-0.1	(-0.4, 0.1)
25-34	30.5	(1.8)	-0.1	(-0.3, 0.1)	-0.1	(-0.3, 0.1)	-0.0	(-0.2, 0.2)	-0.1	(-0.3, 0.1)
18-24	22.5	(1.6)	Ref	--	Ref	--	Ref	--	Ref	--
<b>F<sub>num df, denom df</sub></b>			0.7 <sub>3,662</sub>		0.2 <sub>3,662</sub>		0.4 <sub>3,650</sub>		0.4 <sub>3,650</sub>	
Sex (female)	73.0	(1.7)	0.5	(0.3, 0.6)*	0.1	(-0.1, 0.2)	0.4	(0.3, 0.6)*	0.1	(-0.1, 0.2)
Race/ethnicity										
Non-Hispanic Black	56.3	(1.9)	-0.0	(-0.2, 0.1)	0.0	(-0.1, 0.2)	-0.1	(-0.3, 0.1)	0.0	(-0.1, 0.2)
Non-Hispanic White	30.0	(1.8)	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	10.5	(1.2)	0.0	(-0.2, 0.3)	0.0	(-0.3, 0.3)	-0.0	(-0.3, 0.3)	0.0	(-0.3, 0.3)
Other	3.2	(0.7)	-0.1	(-0.6, 0.3)	0.1	(-0.4, 0.5)	-0.1	(-0.6, 0.3)	0.1	(-0.3, 0.6)
<b>F<sub>num df, denom df</sub></b>			0.2 <sub>3,662</sub>		0.0 <sub>3,662</sub>		0.7 <sub>3,650</sub>		0.1 <sub>3,650</sub>	
Marital status										
Married/cohabitating	42.5	(1.9)	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>2</sup>	14.0	(1.3)	0.1	(-0.1, 0.4)	-0.1	(-0.3, 0.2)	0.0	(-0.2, 0.3)	-0.1	(-0.4, 0.1)
Never married	43.5	(1.9)	-0.0	(-0.2, 0.2)	-0.0	(-0.2, 0.1)	-0.0	(-0.2, 0.1)	-0.1	(-0.3, 0.1)
<b>F<sub>num df, denom df</sub></b>			0.6 <sub>2,663</sub>		0.2 <sub>2,663</sub>		0.1 <sub>2,650</sub>		0.8 <sub>2,650</sub>	
Education										
College graduate	22.1	(1.6)	-0.3	(-0.5, 0.0)	-0.1	(-0.4, 0.2)	-0.1	(-0.5, 0.2)	-0.1	(-0.4, 0.2)
Some college	44.0	(1.9)	-0.1	(-0.4, 0.1)	-0.0	(-0.3, 0.3)	-0.1	(-0.3, 0.2)	0.0	(-0.3, 0.3)
High school graduate	24.0	(1.7)	-0.2	(-0.5, 0.1)	-0.1	(-0.4, 0.2)	-0.1	(-0.4, 0.2)	-0.1	(-0.4, 0.2)
Less than high school	9.9	(1.2)	Ref	--	Ref	--	Ref	--	Ref	--
<b>F<sub>num df, denom df</sub></b>			1.3 <sub>3,662</sub>		0.7 <sub>3,662</sub>		0.3 <sub>3,650</sub>		0.5 <sub>3,650</sub>	
Income <sup>3</sup>										
More than \$35K	33.6	(1.8)	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	31.5	(1.8)	0.2	(0.1, 0.4)*	0.2	(-0.0, 0.4)	0.2	(0.0, 0.4)*	0.2	(-0.0, 0.4)
Less than \$19K	34.8	(1.8)	0.2	(0.0, 0.4)*	0.0	(-0.2, 0.2)	0.2	(-0.1, 0.4)	-0.0	(-0.2, 0.2)
<b>F<sub>num df, denom df</sub></b>			3.8 <sub>2,663</sub> *		2.2 <sub>2,663</sub>		2.6 <sub>2,650</sub>		2.52 <sub>2,650</sub>	
Employed (yes vs. no)	77.0	(1.6)	-0.2	(-0.4, -0.1)*	-0.1	(-0.3, 0.1)	-0.2	(-0.4, 0.0)	-0.1	(-0.3, 0.1)
Overall F <sub>15,650</sub>			--		--		3.0*		0.7	

---

Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio

\*Significant at the .05 level, two-sided test

<sup>1</sup>Standardized to mean=0 and standard deviation=1

<sup>2</sup>Separated, divorced, or widowed

<sup>3</sup>Family income before taxes

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**Table 3. Univariate associations between socio-demographic characteristics and self-reported PTSD with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	0.7	(0.5, 1.2)	0.7	(0.4, 1.2)	0.9	(0.6, 1.4)	0.9	(0.5, 1.4)	1.1	(0.6, 2.1)	1.0	(0.5, 1.9)
35-49	0.9	(0.6, 1.4)	0.9	(0.6, 1.5)	1.1	(0.7, 1.7)	1.1	(0.7, 1.8)	1.3	(0.7, 2.3)	1.2	(0.7, 2.2)
25-34	1.0	(0.6, 1.5)	1.0	(0.7, 1.7)	1.1	(0.7, 1.7)	1.2	(0.8, 1.9)	1.3	(0.7, 2.2)	1.3	(0.8, 2.3)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	1.9		2.6		1.4		2.5		1.2		1.3	
Sex (female)	2.0	(1.4, 2.9)*	1.9	(1.3, 2.8)*	1.8	(1.2, 2.5)*	1.5	(1.0, 2.1)*	1.1	(0.7, 1.7)	1.0	(0.6, 1.5)
Race/ethnicity												
Non-Hispanic Black	0.9	(0.6, 1.3)	0.9	(0.6, 1.3)	0.8	(0.6, 1.1)	0.8	(0.6, 1.1)	0.7	(0.5, 1.1)	0.7	(0.5, 1.2)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	1.3	(0.7, 2.2)	1.3	(0.7, 2.3)	1.3	(0.8, 2.3)	1.3	(0.7, 2.3)	1.2	(0.6, 2.4)	1.3	(0.6, 2.5)
Other	0.3	(0.1, 0.8)*	0.3	(0.1, 0.7)*	0.6	(0.2, 1.4)	0.6	(0.2, 1.5)	1.6	(0.5, 5.3)	1.5	(0.5, 5.3)
$\chi^2_3$	6.7		7.8		5.0		5.0		4.4		4.2	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	0.9	(0.6, 1.5)	0.9	(0.5, 1.5)	1.0	(0.7, 1.7)	1.0	(0.6, 1.6)	1.0	(0.5, 1.9)	1.0	(0.5, 1.8)
Never married	1.1	(0.8, 1.6)	1.2	(0.8, 1.7)	1.1	(0.8, 1.5)	1.1	(0.8, 1.6)	0.9	(0.6, 1.3)	0.9	(0.6, 1.4)
$\chi^2_2$	1.0		1.6		0.1		0.3		0.6		0.3	
Education												
College graduate	0.4	(0.2, 0.8)*	0.5	(0.2, 0.9)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.9)*	0.4	(0.2, 0.9)*
Some college	0.6	(0.3, 1.1)	0.6	(0.3, 1.1)	0.4	(0.2, 0.7)*	0.4	(0.2, 0.7)*	0.3	(0.2, 0.7)*	0.4	(0.2, 0.7)*
High school graduate	0.4	(0.2, 0.7)*	0.4	(0.2, 0.7)*	0.3	(0.2, 0.6)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.8)*	0.4	(0.2, 0.9)*
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	12.2*		9.8*		12.7*		10.8*		9.1*		8.5*	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.5	(1.0, 2.2)*	1.3	(0.9, 2.0)	1.5	(1.0, 2.2)*	1.3	(0.9, 1.9)	1.1	(0.7, 1.7)	1.0	(0.6, 1.6)
Less than \$19K	1.3	(0.9, 1.9)	1.3	(0.9, 1.9)	1.7	(1.2, 2.5)*	1.6	(1.1, 2.4)*	1.6	(1.0, 2.6)	1.6	(1.0, 2.5)
$\chi^2_2$	5.0		2.4		8.5*		5.8		4.4		4.3	
Employed (yes vs. no)	0.8	(0.6, 1.2)	0.9	(0.6, 1.4)	0.8	(0.6, 1.1)	0.9	(0.6, 1.3)	0.9	(0.5, 1.4)	0.9	(0.6, 1.5)

Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio; PTSD, post-traumatic stress disorder

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Table 4. Distributions, univariate, and multivariate associations of MVC characteristics with self-reported peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	%/ <b>Mean</b> (SE)		<b>Univariate associations</b>				<b>Multivariate associations</b>			
			<b>Distress</b>		<b>Dissociation</b>		<b>Distress</b>		<b>Dissociation</b>	
			<b>OR<sup>1</sup></b>	<b>(95% CI)</b>	<b>OR<sup>1</sup></b>	<b>(95% CI)</b>	<b>OR<sup>1</sup></b>	<b>(95% CI)</b>	<b>OR<sup>1</sup></b>	<b>(95% CI)</b>
<b>Role in MVC</b>										
Passenger	23.3	(1.6)	0.1	(-0.1, 0.3)	0.1	(-0.1, 0.3)	0.0	(-0.2, 0.2)	-0.0	(-0.2, 0.2)
Driver with others	19.2	(1.5)	0.2	(-0.0, 0.4)	0.2	(-0.0, 0.4)	0.1	(-0.1, 0.3)	0.1	(-0.1, 0.3)
Driver alone	57.5	(1.9)	Ref	--	Ref	--	Ref	--	Ref	--
<b>F<sub>num df, denom df</sub></b>			<b>1.8</b>	<b>2,663</b>	<b>1.3</b>	<b>2,663</b>	<b>0.6</b>	<b>2,648</b>	<b>0.3</b>	<b>2,648</b>
<b>Your vehicle collided with</b>										
Other moving vehicle	68.2	(1.8)	0.3	(0.1, 0.5)*	0.1	(-0.1, 0.3)	0.2	(-0.0, 0.4)	0.0	(-0.2, 0.2)
Stationary object	17.9	(1.5)	0.3	(-0.0, 0.5)	0.0	(-0.3, 0.3)	0.1	(-0.1, 0.4)	-0.1	(-0.4, 0.1)
Other <sup>2</sup>	14.0	(1.3)	Ref	--	Ref	--	Ref	--	Ref	--
<b>F<sub>num df, denom df</sub></b>			<b>3.1</b>	<b>2,663*</b>	<b>0.4</b>	<b>2,663</b>	<b>1.9</b>	<b>2,648</b>	<b>1.3</b>	<b>2,648</b>
<b>Damage to your vehicle</b>										
Severe	58.3	(1.9)	0.6	(0.3, 1.0)*	0.4	(0.1, 0.7)*	0.6	(0.3, 0.9)*	0.3	(0.0, 0.6)*
Moderate	26.4	(1.7)	0.2	(-0.1, 0.5)	0.1	(-0.3, 0.4)	0.2	(-0.1, 0.6)	0.1	(-0.2, 0.4)
Minor	8.9	(1.1)	-0.1	(-0.4, 0.3)	-0.1	(-0.5, 0.3)	0.0	(-0.3, 0.4)	-0.0	(-0.4, 0.4)
Other <sup>3</sup>	6.5	(1.0)	Ref	--	Ref	--	Ref	--	Ref	--
<b>F<sub>num df, denom df</sub></b>			<b>17.0</b>	<b>3,662*</b>	<b>9.1</b>	<b>3,662*</b>	<b>10.5</b>	<b>3,648*</b>	<b>4.3</b>	<b>3,648*</b>
Passengers with injuries (0-4 standardized) <sup>4</sup>	0.0	(0.0)	0.1	(0.0, 0.2)*	0.1	(0.0, 0.2)*	0.0	(-0.1, 0.1)	0.1	(-0.0, 0.2)
Others with injuries (any vs. none) <sup>4</sup>	10.2	(1.2)	0.2	(-0.1, 0.4)	0.2	(-0.1, 0.4)	-0.0	(-0.3, 0.2)	-0.0	(-0.3, 0.2)
<b>Transportation to ED</b>										
Ambulance	58.0	(1.9)	0.4	(0.2, 0.6)*	0.3	(0.2, 0.5)*	0.3	(0.1, 0.5)*	0.2	(0.0, 0.4)*
Other immediately	14.7	(1.4)	0.0	(-0.2, 0.3)	0.1	(-0.1, 0.4)	0.1	(-0.1, 0.3)	0.2	(-0.1, 0.4)
Other delay	27.3	(1.7)	Ref	--	Ref	--	Ref	--	Ref	--
<b>F<sub>num df, denom df</sub></b>			<b>13.6</b>	<b>2,663*</b>	<b>7.5</b>	<b>2,663*</b>	<b>6.8</b>	<b>2,648*</b>	<b>2.9</b>	<b>2,648</b>
<b>Personal injury</b>										
Hit head (yes vs. no)	57.4	(1.9)	0.3	(0.1, 0.4)*	0.4	(0.2, 0.5)*	-0.0	(-0.2, 0.1)	0.1	(-0.1, 0.2)
TBI (yes vs. no)	27.5	(1.7)	0.5	(0.3, 0.6)*	0.6	(0.4, 0.8)*	0.3	(0.1, 0.5)*	0.4	(0.2, 0.6)*
AIS-Max <sup>5</sup> (2+ vs 1)	13.1	(1.3)	-0.0	(-0.3, 0.2)	0.1	(-0.1, 0.4)	-0.1	(-0.3, 0.1)	0.0	(-0.2, 0.3)
Admitted (yes vs. no)	4.1	(0.8)	0.1	(-0.3, 0.5)	0.2	(-0.1, 0.6)	-0.0	(-0.4, 0.4)	0.1	(-0.2, 0.5)
Severity of pain (mean) <sup>6</sup>	0.0	(0.0)	0.2	(0.1, 0.3)*	0.1	(0.0, 0.2)*	0.2	(0.1, 0.2)*	0.1	(-0.0, 0.1)
Severity of other somatic symptoms (mean) <sup>7</sup>	0.0	(0.0)	0.2	(0.1, 0.3)*	0.2	(0.1, 0.2)*	0.1	(0.0, 0.2)*	0.1	(0.0, 0.2)*
Overall <b>F<sub>17,648</sub></b>			--	--	--	--	<b>7.8*</b>	--	<b>5.8*</b>	--

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Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Standardized to mean=0 and standard deviation=1

<sup>2</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>3</sup>None (n=12) and "don't know" (n=31)

<sup>4</sup>Moderate or severe injuries

<sup>5</sup>Max score of the nine AIS regions

<sup>6</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>7</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Table 5. Net univariate associations of MVC characteristics after controlling socio-demographics with self-reported PTSD with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
<b>Role in MVC</b>												
Passenger	1.1	(0.7, 1.7)	1.1	(0.7, 1.7)	2.1	(1.4, 3.1)*	2.2	(1.4, 3.4)*	3.2	(1.9, 5.6)*	3.2	(1.9, 5.6)*
Driver with others	1.4	(0.9, 2.1)	1.3	(0.8, 2.0)	1.3	(0.8, 2.0)	1.2	(0.8, 1.8)	1.1	(0.7, 2.0)	1.1	(0.6, 1.9)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	2.0		1.0		11.5*		11.8*		17.9*		17.9*	
<b>Your vehicle collided with</b>												
Other moving vehicle	0.8	(0.5, 1.3)	0.7	(0.4, 1.2)	1.1	(0.7, 1.8)	1.0	(0.6, 1.7)	1.3	(0.7, 2.5)	1.3	(0.7, 2.3)
Stationary object	0.8	(0.4, 1.4)	0.7	(0.4, 1.3)	0.7	(0.4, 1.3)	0.7	(0.4, 1.2)	0.8	(0.4, 1.6)	0.7	(0.3, 1.5)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	0.7		1.5		3.5		3.1		4.3		4.2	
<b>Damage to your vehicle</b>												
Severe	1.2	(0.6, 2.3)	0.8	(0.4, 1.6)	1.3	(0.7, 2.6)	0.9	(0.4, 1.8)	1.0	(0.4, 2.4)	0.9	(0.4, 2.1)
Moderate	0.9	(0.4, 1.8)	0.8	(0.4, 1.7)	1.1	(0.5, 2.2)	1.0	(0.5, 2.0)	0.9	(0.4, 2.3)	0.9	(0.4, 2.3)
Minor	0.8	(0.4, 1.9)	0.9	(0.4, 2.1)	1.1	(0.5, 2.5)	1.2	(0.5, 2.8)	1.3	(0.4, 3.6)	1.3	(0.5, 3.8)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	3.2		0.6		2.0		1.1		0.6		1.4	
<b>Passengers with injuries (0-4 standardized)<sup>7</sup></b>												
Passengers with injuries (0-4 standardized) <sup>7</sup>	1.2	(1.0, 1.4)*	1.1	(0.9, 1.3)	1.2	(1.1, 1.5)*	1.2	(1.0, 1.4)	1.2	(1.0, 1.5)	1.2	(1.0, 1.5)
Others with injuries (any vs. none) <sup>7</sup>	1.1	(0.7, 1.9)	0.9	(0.5, 1.7)	1.5	(0.9, 2.5)	1.3	(0.7, 2.2)	1.7	(0.9, 3.2)	1.6	(0.8, 3.2)
<b>Transportation to ED</b>												
Ambulance	1.2	(0.8, 1.7)	0.9	(0.6, 1.3)	1.7	(1.1, 2.4)*	1.3	(0.9, 1.9)	1.9	(1.2, 3.1)*	1.7	(1.0, 2.8)*
Other immediately	1.5	(0.9, 2.5)	1.4	(0.8, 2.4)	1.2	(0.7, 2.0)	1.1	(0.6, 1.9)	1.2	(0.6, 2.3)	1.2	(0.6, 2.3)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	2.2		3.6		7.6*		1.7		7.7*		5.1	
<b>Personal injury</b>												
Hit head (yes vs. no)	1.5	(1.1, 2.0)*	1.1	(0.8, 1.6)	1.3	(1.0, 1.8)	1.1	(0.8, 1.5)	1.1	(0.7, 1.6)	1.0	(0.7, 1.6)
TBI (yes vs. no)	2.1	(1.5, 3.1)*	1.4	(0.9, 2.1)	1.6	(1.1, 2.3)*	1.1	(0.7, 1.6)	1.0	(0.6, 1.6)	0.9	(0.6, 1.5)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.3	(0.8, 2.1)	1.1	(0.7, 1.9)	0.9	(0.5, 1.4)	0.8	(0.5, 1.3)	0.7	(0.4, 1.4)	0.7	(0.4, 1.4)
Admitted (yes vs. no)	1.1	(0.5, 2.4)	0.8	(0.3, 2.0)	0.8	(0.3, 1.7)	0.6	(0.3, 1.5)	0.7	(0.2, 1.9)	0.6	(0.2, 1.7)
Severity of pain <sup>9</sup>	1.4	(1.2, 1.6)*	1.3	(1.1, 1.5)*	1.3	(1.1, 1.6)*	1.2	(1.0, 1.4)*	1.0	(0.8, 1.3)	1.0	(0.8, 1.2)
Severity of other somatic symptom <sup>10</sup>	1.2	(1.0, 1.4)*	1.0	(0.9, 1.2)	1.0	(0.9, 1.2)	0.9	(0.8, 1.1)	0.9	(0.7, 1.1)	0.	(0.7, 1.1)

Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; PTSD, post-traumatic stress disorder; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 1. Univariate associations between socio-demographic characteristics and self-reported MDE with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	0.5	(0.3, 0.9)*	0.5	(0.3, 0.8)*	0.8	(0.5, 1.4)	0.8	(0.4, 1.4)	1.5	(0.7, 2.9)	1.5	(0.8, 2.9)
35-49	0.6	(0.4, 0.9)*	0.6	(0.3, 0.9)*	0.9	(0.5, 1.4)	0.9	(0.5, 1.4)	1.2	(0.7, 2.3)	1.3	(0.7, 2.3)
25-34	0.9	(0.6, 1.3)	0.9	(0.6, 1.4)	1.3	(0.8, 2.0)	1.3	(0.8, 2.1)	1.5	(0.8, 2.7)	1.5	(0.8, 2.7)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	9.3*		11.8*		4.1		5.1		2.2		2.2	
Sex (female)	1.5	(1.0, 2.2)*	1.2	(0.8, 1.9)	1.3	(0.9, 2.0)	1.2	(0.8, 1.8)	0.9	(0.6, 1.5)	0.9	(0.6, 1.6)
Race/ethnicity												
Non-Hispanic Black	0.7	(0.5, 1.1)	0.7	(0.5, 1.0)	0.7	(0.5, 1.0)*	0.7	(0.4, 1.0)*	0.7	(0.5, 1.2)	0.7	(0.4, 1.2)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	1.0	(0.6, 1.8)	1.0	(0.6, 1.8)	1.4	(0.8, 2.5)	1.4	(0.8, 2.5)	1.4	(0.7, 2.9)	1.4	(0.7, 2.9)
Other	0.2	(0.0, 0.9)*	0.2	(0.0, 0.8)*	0.7	(0.2, 2.0)	0.7	(0.2, 2.0)	2.2	(0.6, 8.0)	2.2	(0.6, 7.9)
$\chi^2_3$	7.3		8.0*		9.0*		9.5*		6.5		6.5	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	1.0	(0.6, 1.7)	1.0	(0.6, 1.7)	1.0	(0.6, 1.7)	1.0	(0.6, 1.7)	1.0	(0.5, 2.0)	1.1	(0.5, 2.1)
Never married	1.2	(0.8, 1.7)	1.2	(0.8, 1.8)	0.9	(0.6, 1.3)	0.9	(0.6, 1.4)	0.7	(0.5, 1.1)	0.7	(0.4, 1.1)
$\chi^2_2$	0.9		1.5		0.2		0.1		2.4		2.6	
Education												
College graduate	0.6	(0.3, 1.1)	0.7	(0.4, 1.3)	0.9	(0.5, 1.7)	1.0	(0.5, 1.9)	1.5	(0.7, 3.3)	1.5	(0.7, 3.3)
Some college	1.1	(0.6, 2.0)	1.2	(0.7, 2.2)	1.1	(0.6, 2.0)	1.2	(0.6, 2.2)	1.2	(0.6, 2.5)	1.2	(0.6, 2.5)
High school graduate	0.7	(0.4, 1.3)	0.8	(0.4, 1.4)	0.9	(0.4, 1.6)	0.9	(0.5, 1.8)	1.1	(0.5, 2.5)	1.1	(0.5, 2.5)
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	10.2*		8.1*		1.9		1.3		1.1		1.1	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.6	(1.1, 2.4)*	1.4	(0.9, 2.1)	1.0	(0.6, 1.5)	0.9	(0.6, 1.3)	0.6	(0.4, 1.1)	0.6	(0.4, 1.1)
Less than \$19K	1.3	(0.9, 2.0)	1.2	(0.8, 1.9)	1.3	(0.9, 2.0)	1.3	(0.8, 1.9)	1.1	(0.6, 1.8)	1.1	(0.6, 1.8)
$\chi^2_2$	4.9		2.3		2.7		3.3		4.0		4.0	
Employed (yes vs. no)	0.8	(0.6, 1.2)	1.0	(0.6, 1.4)	0.9	(0.6, 1.3)	1.0	(0.7, 1.5)	0.9	(0.6, 1.5)	0.9	(0.6, 1.5)

Abbreviations: CI, confidence interval; MDE, major depressive episode; MVC, motor vehicle collision; OR, odds ratio

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 2. Univariate associations between socio-demographic characteristics and self-reported PCS with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	1.0	(0.6, 1.8)	1.0	(0.6, 1.8)	1.3	(0.8, 2.2)	1.3	(0.8, 2.3)	1.4	(0.7, 2.5)	1.4	(0.8, 2.5)
35-49	0.9	(0.5, 1.4)	0.9	(0.5, 1.4)	1.1	(0.7, 1.7)	1.1	(0.7, 1.7)	1.1	(0.7, 1.9)	1.1	(0.7, 1.9)
25-34	0.9	(0.5, 1.5)	0.9	(0.6, 1.5)	0.8	(0.5, 1.3)	0.8	(0.5, 1.3)	0.8	(0.5, 1.3)	0.8	(0.5, 1.3)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	0.6		0.4		4.4		4.0		4.6		4.5	
Sex (female)	1.5	(1.1, 2.3)*	1.4	(0.9, 2.1)	1.5	(1.1, 2.2)*	1.4	(1.0, 2.1)	1.4	(0.9, 2.1)	1.3	(0.9, 2.0)
Race/ethnicity												
Non-Hispanic Black	0.7	(0.5, 1.0)	0.7	(0.5, 1.0)	0.8	(0.6, 1.2)	0.8	(0.6, 1.2)	0.9	(0.6, 1.4)	0.9	(0.6, 1.4)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	0.8	(0.4, 1.5)	0.8	(0.4, 1.5)	0.9	(0.5, 1.6)	0.9	(0.5, 1.6)	1.0	(0.5, 2.0)	1.0	(0.5, 2.0)
Other	0.3	(0.1, 0.9)*	0.3	(0.1, 0.9)*	1.3	(0.5, 3.8)	1.4	(0.5, 3.9)	2.8	(0.9, 8.8)	2.8	(0.9, 8.9)
$\chi^2_3$	6.4		6.4		1.8		1.8		4.0		4.0	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	0.9	(0.6, 1.6)	0.9	(0.5, 1.6)	0.9	(0.5, 1.5)	0.9	(0.5, 1.4)	0.9	(0.5, 1.7)	0.9	(0.5, 1.7)
Never married	1.2	(0.8, 1.8)	1.2	(0.8, 1.8)	1.0	(0.7, 1.5)	1.0	(0.7, 1.5)	0.9	(0.6, 1.4)	0.9	(0.6, 1.4)
$\chi^2_2$	1.4		1.7		0.3		0.4		0.1		0.1	
Education												
College graduate	0.8	(0.4, 1.7)	0.9	(0.4, 1.9)	0.7	(0.4, 1.4)	0.8	(0.4, 1.5)	0.8	(0.4, 1.7)	0.8	(0.4, 1.7)
Some college	0.7	(0.4, 1.4)	0.7	(0.4, 1.5)	0.6	(0.3, 1.2)	0.6	(0.3, 1.2)	0.6	(0.3, 1.2)	0.6	(0.3, 1.3)
High school graduate	0.4	(0.2, 0.8)*	0.4	(0.2, 0.9)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.9)*	0.4	(0.2, 0.9)*
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	10.9*		10.3*		14.1*		13.6*		8.0*		8.0*	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.1	(0.7, 1.7)	1.0	(0.6, 1.6)	0.9	(0.6, 1.3)	0.8	(0.5, 1.2)	0.8	(0.5, 1.2)	0.7	(0.5, 1.2)
Less than \$19K	0.9	(0.6, 1.3)	0.8	(0.5, 1.2)	0.9	(0.6, 1.4)	0.9	(0.6, 1.3)	0.9	(0.6, 1.4)	0.9	(0.5, 1.3)
$\chi^2_2$	1.6		1.5		0.5		1.0		1.4		1.7	
Employed (yes vs. no)	0.8	(0.5, 1.2)	0.9	(0.6, 1.3)	0.8	(0.6, 1.2)	0.9	(0.6, 1.3)	0.8	(0.5, 1.3)	0.8	(0.5, 1.3)

Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio; PCS, Post-Concussive Syndrome

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 3. Univariate associations between socio-demographic characteristics and self-reported pain with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	1.5	(0.8, 2.8)	1.5	(0.8, 2.9)	2.6	(1.5, 4.5)*	2.7	(1.5, 4.6)*	2.8	(1.5, 5.1)*	2.8	(1.5, 5.2)*
35-49	1.5	(0.9, 2.6)	1.6	(0.9, 2.7)	1.9	(1.2, 3.0)*	1.9	(1.2, 3.1)*	1.8	(1.1, 3.1)*	1.9	(1.1, 3.1)*
25-34	1.2	(0.7, 2.1)	1.3	(0.8, 2.2)	1.2	(0.8, 1.8)	1.2	(0.8, 1.9)	1.1	(0.7, 1.8)	1.2	(0.7, 1.9)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	2.8		3.1		17.1*		16.7*		14.7*		14.3*	
Sex (female)	2.2	(1.5, 3.4)*	2.2	(1.4, 3.4)*	1.8	(1.2, 2.5)*	1.6	(1.1, 2.3)*	1.4	(0.9, 2.1)	1.2	(0.8, 1.9)
Race/ethnicity												
Non-Hispanic Black	0.8	(0.5, 1.3)	0.8	(0.5, 1.3)	1.1	(0.8, 1.6)	1.1	(0.8, 1.6)	1.1	(0.7, 1.7)	1.2	(0.8, 1.7)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	0.9	(0.4, 1.8)	0.8	(0.4, 1.7)	1.4	(0.8, 2.5)	1.4	(0.7, 2.5)	1.4	(0.7, 2.8)	1.4	(0.7, 2.9)
Other	0.4	(0.1, 1.1)	0.4	(0.1, 1.0)	0.7	(0.3, 1.7)	0.7	(0.3, 1.8)	0.9	(0.3, 2.7)	1.0	(0.3, 2.9)
$\chi^2_3$	3.4		3.6		2.1		2.0		1.2		1.3	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	0.9	(0.5, 1.6)	0.8	(0.5, 1.6)	1.2	(0.7, 2.0)	1.1	(0.7, 1.9)	1.3	(0.7, 2.4)	1.3	(0.7, 2.3)
Never married	0.7	(0.5, 1.1)	0.7	(0.5, 1.1)	0.8	(0.6, 1.2)	0.8	(0.6, 1.2)	0.9	(0.6, 1.3)	0.9	(0.6, 1.3)
$\chi^2_2$	2.2		2.1		2.3		2.0		2.1		1.7	
Education												
College graduate	1.0	(0.5, 2.2)	1.1	(0.5, 2.5)	0.4	(0.2, 0.9)*	0.5	(0.2, 1.0)*	0.4	(0.2, 0.9)*	0.4	(0.2, 0.9)*
Some college	1.1	(0.5, 2.2)	1.1	(0.6, 2.3)	0.6	(0.3, 1.1)	0.6	(0.3, 1.1)	0.5	(0.2, 1.0)	0.5	(0.2, 1.1)
High school graduate	0.8	(0.4, 1.6)	0.8	(0.4, 1.7)	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*	0.4	(0.2, 0.9)*
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	2.1		1.8		8.5*		7.0		6.6		5.7	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.6	(1.0, 2.6)	1.5	(0.9, 2.4)	1.3	(0.9, 1.9)	1.2	(0.8, 1.7)	1.1	(0.7, 1.7)	1.0	(0.7, 1.6)
Less than \$19K	1.3	(0.8, 2.1)	1.2	(0.8, 2.0)	1.5	(1.0, 2.2)*	1.4	(1.0, 2.1)	1.4	(0.9, 2.2)	1.4	(0.9, 2.1)
$\chi^2_2$	3.6		2.3		4.3		3.0		2.5		2.1	
Employed (yes vs. no)	0.8	(0.5, 1.3)	0.8	(0.5, 1.4)	0.7	(0.4, 1.0)	0.7	(0.5, 1.1)	0.7	(0.5, 1.1)	0.8	(0.5, 1.2)

Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio; pain, global pain

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 4. Multivariate associations between socio-demographic characteristics and self-reported PTSD with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	0.8	(0.4, 1.4)	0.8	(0.4, 1.5)	0.9	(0.5, 1.7)	0.9	(0.5, 1.7)	1.0	(0.5, 2.1)	1.0	(0.5, 2.1)
35-49	1.1	(0.6, 1.7)	1.2	(0.7, 2.0)	1.4	(0.8, 2.2)	1.5	(0.9, 2.4)	1.4	(0.8, 2.6)	1.4	(0.7, 2.6)
25-34	1.0	(0.7, 1.6)	1.1	(0.7, 1.8)	1.3	(0.8, 2.0)	1.3	(0.8, 2.2)	1.3	(0.7, 2.3)	1.3	(0.7, 2.3)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	1.8		2.3		3.3		4.1		1.8		1.8	
Sex (female)	2.0	(1.4, 2.8)*	1.9	(1.3, 2.8)*	1.8	(1.2, 2.5)*	1.5	(1.0, 2.2)*	1.1	(0.7, 1.7)	1.0	(0.6, 1.6)
Race/ethnicity												
Non-Hispanic Black	0.8	(0.5, 1.1)	0.7	(0.5, 1.1)	0.6	(0.4, 0.9)*	0.6	(0.4, 0.9)*	0.6	(0.4, 0.9)*	0.6	(0.4, 1.0)*
Hispanic	1.2	(0.6, 2.1)	1.1	(0.6, 2.1)	1.1	(0.6, 1.9)	1.1	(0.6, 2.0)	1.0	(0.5, 2.0)	1.0	(0.5, 2.1)
Other	0.3	(0.1, 0.8)*	0.2	(0.1, 0.6)*	0.5	(0.2, 1.2)	0.4	(0.2, 1.2)	1.2	(0.3, 4.4)	1.2	(0.3, 4.4)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	8.0*		9.9*		9.7*		9.4*		6.4		5.9	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	0.9	(0.5, 1.5)	0.9	(0.5, 1.6)	1.0	(0.6, 1.7)	1.1	(0.6, 1.9)	1.1	(0.6, 2.2)	1.1	(0.6, 2.2)
Never married	1.1	(0.7, 1.6)	1.2	(0.8, 1.8)	1.1	(0.7, 1.6)	1.1	(0.8, 1.7)	0.9	(0.6, 1.5)	1.0	(0.6, 1.5)
$\chi^2_2$	0.4		1.0		0.1		0.5		0.3		0.2	
Education												
College graduate	0.5	(0.2, 1.0)*	0.5	(0.2, 1.0)	0.4	(0.2, 0.8)*	0.4	(0.2, 0.9)*	0.4	(0.2, 1.0)	0.5	(0.2, 1.1)
Some college	0.6	(0.3, 1.1)	0.6	(0.3, 1.1)	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*
High school graduate	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.9)*	0.4	(0.2, 0.9)*
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	8.4*		7.7		9.5*		9.5*		7.1		7.0	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.4	(0.9, 2.2)	1.3	(0.8, 2.0)	1.5	(1.0, 2.2)	1.3	(0.8, 2.0)	1.1	(0.7, 1.9)	1.1	(0.6, 1.8)
Less than \$19K	1.2	(0.8, 1.9)	1.2	(0.8, 2.0)	1.7	(1.1, 2.7)*	1.7	(1.1, 2.7)*	1.7	(1.0, 3.0)	1.7	(0.9, 3.0)
$\chi^2_2$	2.7		1.2		5.9		5.0		3.9		4.1	
Employed (yes vs. no)	0.9	(0.6, 1.3)	1.0	(0.7, 1.6)	0.9	(0.6, 1.4)	1.1	(0.7, 1.6)	1.1	(0.6, 1.8)	1.1	(0.7, 1.9)
Overall $\chi^2_{15}$	37.6*		31.8		36.9*		29.5*		19.7		18.5	

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Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio; PTSD, post-traumatic stress disorder

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 5. Multivariate associations between socio-demographic characteristics and self-reported MDE with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	0.4	(0.2, 0.8)*	0.4	(0.2, 0.8)*	0.7	(0.3, 1.3)	0.7	(0.3, 1.3)	1.2	(0.5, 2.6)	1.2	(0.5, 2.6)
35-49	0.6	(0.4, 1.0)	0.6	(0.3, 1.0)	0.8	(0.5, 1.4)	0.8	(0.5, 1.5)	1.0	(0.5, 2.1)	1.1	(0.5, 2.2)
25-34	0.9	(0.6, 1.4)	0.9	(0.6, 1.5)	1.2	(0.8, 2.0)	1.3	(0.8, 2.2)	1.4	(0.8, 2.7)	1.5	(0.8, 2.7)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	8.9*		10.2*		5.1		5.8		1.7		1.7	
Sex (female)	1.4	(1.0, 2.2)	1.2	(0.8, 1.8)	1.3	(0.9, 2.0)	1.2	(0.8, 1.8)	0.9	(0.5, 1.5)	0.9	(0.5, 1.5)
Race/ethnicity												
Non-Hispanic Black	0.6	(0.4, 0.9)*	0.6	(0.4, 0.9)*	0.6	(0.4, 0.9)*	0.6	(0.4, 0.9)*	0.7	(0.4, 1.2)	0.7	(0.4, 1.2)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	0.9	(0.5, 1.7)	0.9	(0.5, 1.7)	1.3	(0.7, 2.4)	1.3	(0.7, 2.4)	1.5	(0.7, 3.1)	1.5	(0.7, 3.1)
Other	0.2	(0.1, 1.0)	0.2	(0.0, 1.0)	0.7	(0.3, 2.2)	0.7	(0.2, 2.1)	2.3	(0.6, 8.8)	2.3	(0.6, 8.6)
$\chi^2_3$	8.3*		8.5*		10.7*		11.1*		7.0		7.0	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	1.1	(0.6, 2.0)	1.2	(0.7, 2.2)	1.2	(0.7, 2.1)	1.2	(0.7, 2.2)	1.1	(0.6, 2.3)	1.2	(0.6, 2.4)
Never married	1.0	(0.6, 1.4)	1.0	(0.7, 1.6)	0.8	(0.6, 1.3)	0.9	(0.6, 1.4)	0.7	(0.4, 1.2)	0.7	(0.4, 1.2)
$\chi^2_2$	0.3		0.4		1.3		1.2		1.9		1.9	
Education												
College graduate	0.7	(0.4, 1.5)	0.8	(0.4, 1.6)	1.0	(0.5, 2.0)	1.0	(0.5, 2.1)	1.3	(0.5, 3.2)	1.3	(0.5, 3.2)
Some college	1.2	(0.7, 2.2)	1.2	(0.7, 2.3)	1.2	(0.7, 2.3)	1.2	(0.6, 2.3)	1.3	(0.6, 2.8)	1.3	(0.6, 2.8)
High school graduate	0.7	(0.4, 1.4)	0.7	(0.4, 1.4)	0.9	(0.5, 1.8)	0.9	(0.5, 1.8)	1.2	(0.5, 2.7)	1.2	(0.5, 2.7)
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	7.7		7.3		2.2		1.7		0.5		0.5	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.5	(0.9, 2.3)	1.3	(0.8, 2.1)	1.0	(0.6, 1.5)	0.9	(0.5, 1.4)	0.7	(0.4, 1.2)	0.7	(0.4, 1.2)
Less than \$19K	1.2	(0.7, 2.0)	1.2	(0.7, 1.9)	1.4	(0.9, 2.3)	1.4	(0.8, 2.3)	1.2	(0.7, 2.3)	1.3	(0.7, 2.3)
$\chi^2_2$	3.0		1.3		3.4		4.5		4.3		4.4	
Employed (yes vs. no)	0.8	(0.5, 1.2)	0.8	(0.5, 1.3)	0.9	(0.6, 1.4)	0.9	(0.6, 1.5)	0.9	(0.5, 1.7)	0.9	(0.5, 1.7)
Overall $\chi^2_{15}$	33.5*		29.5*		22.3		22.1		15.6		15.6	

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Abbreviations: CI, confidence interval; MDE, major depressive episode; MVC, motor vehicle collision; OR, odds ratio

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 6. Multivariate associations between socio-demographic characteristics and self-reported PCS with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	1.0	(0.5, 1.9)	1.0	(0.5, 2.0)	1.4	(0.7, 2.6)	1.4	(0.8, 2.6)	1.4	(0.7, 2.8)	1.4	(0.7, 2.8)
35-49	1.0	(0.5, 1.7)	1.0	(0.6, 1.7)	1.1	(0.7, 1.9)	1.2	(0.7, 1.9)	1.1	(0.6, 2.0)	1.1	(0.6, 2.0)
25-34	0.9	(0.5, 1.5)	0.9	(0.5, 1.5)	0.8	(0.5, 1.2)	0.8	(0.5, 1.3)	0.7	(0.4, 1.3)	0.7	(0.4, 1.3)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	0.3		0.3		4.8		4.9		4.3		4.4	
Sex (female)	1.5	(1.0, 2.2)	1.3	(0.9, 2.0)	1.4	(1.0, 2.1)	1.3	(0.9, 2.0)	1.3	(0.9, 2.0)	1.3	(0.8, 2.0)
Race/ethnicity												
Non-Hispanic Black	0.7	(0.4, 1.1)	0.7	(0.4, 1.1)	0.8	(0.6, 1.2)	0.8	(0.6, 1.2)	0.9	(0.6, 1.4)	0.9	(0.6, 1.4)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	0.8	(0.4, 1.6)	0.8	(0.4, 1.6)	1.0	(0.5, 1.9)	1.0	(0.5, 1.9)	1.1	(0.6, 2.2)	1.1	(0.6, 2.2)
Other	0.3	(0.1, 0.9)*	0.3	(0.1, 0.8)*	1.3	(0.4, 3.8)	1.3	(0.4, 3.9)	2.7	(0.8, 8.5)	2.7	(0.8, 8.6)
$\chi^2_3$	6.6		6.7		1.7		1.5		3.6		3.5	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	0.9	(0.5, 1.7)	0.9	(0.5, 1.7)	0.8	(0.4, 1.3)	0.8	(0.4, 1.3)	0.8	(0.4, 1.5)	0.8	(0.4, 1.5)
Never married	1.3	(0.9, 2.1)	1.4	(0.9, 2.2)	1.2	(0.8, 1.7)	1.2	(0.8, 1.8)	1.1	(0.7, 1.7)	1.1	(0.7, 1.7)
$\chi^2_2$	2.3		2.9		2.1		2.3		0.6		0.7	
Education												
College graduate	0.8	(0.4, 1.8)	0.8	(0.4, 1.9)	0.7	(0.3, 1.5)	0.7	(0.3, 1.5)	0.7	(0.3, 1.7)	0.7	(0.3, 1.7)
Some college	0.7	(0.3, 1.4)	0.7	(0.3, 1.4)	0.6	(0.3, 1.2)	0.6	(0.3, 1.2)	0.6	(0.3, 1.3)	0.6	(0.3, 1.3)
High school graduate	0.4	(0.2, 0.9)*	0.4	(0.2, 0.9)*	0.4	(0.2, 0.7)*	0.4	(0.2, 0.8)*	0.4	(0.2, 1.0)*	0.4	(0.2, 1.0)*
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	8.1*		7.8*		10.6*		10.5*		5.5		5.6	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.2	(0.7, 2.0)	1.1	(0.7, 1.8)	1.0	(0.6, 1.5)	0.9	(0.6, 1.4)	0.9	(0.5, 1.4)	0.8	(0.5, 1.4)
Less than \$19K	0.9	(0.6, 1.5)	0.9	(0.5, 1.5)	1.1	(0.7, 1.7)	1.0	(0.6, 1.6)	1.0	(0.6, 1.7)	1.0	(0.6, 1.7)
$\chi^2_2$	1.4		0.8		0.1		0.3		0.5		0.7	
Employed (yes vs. no)	0.8	(0.5, 1.4)	0.9	(0.6, 1.5)	1.0	(0.7, 1.6)	1.1	(0.7, 1.6)	1.0	(0.6, 1.6)	1.0	(0.6, 1.6)
Overall $\chi^2_{15}$	24.1		21.6		24.0		22.3		17.8		17.6	

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Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio; PCS, Post-Concussive Syndrome

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 7. Multivariate associations between socio-demographic characteristics and self-reported pain with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week					
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Age												
50+	1.4	(0.7, 2.8)	1.5	(0.7, 3.1)	3.1	(1.7, 5.9)*	3.3	(1.7, 6.3)*	3.5	(1.7, 7.1)*	3.6	(1.7, 7.4)*
35-49	1.6	(0.8, 2.9)	1.7	(0.9, 3.2)	2.3	(1.4, 3.9)*	2.4	(1.4, 4.0)*	2.3	(1.3, 4.0)*	2.3	(1.3, 4.1)*
25-34	1.2	(0.7, 2.0)	1.2	(0.7, 2.2)	1.2	(0.8, 2.0)	1.3	(0.8, 2.0)	1.3	(0.8, 2.1)	1.3	(0.8, 2.1)
18-24	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	2.2		3.0		17.4*		17.9*		15.4*		15.3*	
Sex (female)	2.2	(1.5, 3.4)*	2.3	(1.5, 3.6)*	1.8	(1.2, 2.6)*	1.6	(1.1, 2.3)*	1.4	(0.9, 2.1)	1.2	(0.8, 1.9)
Race/ethnicity												
Non-Hispanic Black	0.8	(0.5, 1.3)	0.7	(0.4, 1.2)	1.0	(0.6, 1.4)	1.0	(0.7, 1.5)	1.0	(0.6, 1.5)	1.0	(0.7, 1.6)
Non-Hispanic White	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Hispanic	0.8	(0.4, 1.8)	0.8	(0.4, 1.7)	1.4	(0.8, 2.7)	1.4	(0.8, 2.7)	1.5	(0.7, 2.9)	1.5	(0.7, 3.1)
Other	0.3	(0.1, 1.0)*	0.3	(0.1, 0.9)*	0.6	(0.2, 1.6)	0.6	(0.2, 1.6)	0.9	(0.3, 2.7)	0.9	(0.3, 2.8)
$\chi^2_3$	4.4		5.1		2.9		2.8		1.5		1.6	
Marital status												
Married/cohabitating	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
Previously married <sup>5</sup>	0.7	(0.3, 1.3)	0.7	(0.3, 1.3)	0.7	(0.4, 1.3)	0.7	(0.4, 1.3)	0.9	(0.5, 1.7)	0.9	(0.4, 1.7)
Never married	0.7	(0.5, 1.2)	0.8	(0.5, 1.2)	1.0	(0.7, 1.4)	1.0	(0.7, 1.5)	1.1	(0.7, 1.7)	1.1	(0.7, 1.7)
$\chi^2_2$	2.2		2.0		1.0		1.2		0.3		0.5	
Education												
College graduate	1.4	(0.6, 3.2)	1.5	(0.6, 3.5)	0.5	(0.2, 1.1)	0.5	(0.2, 1.2)	0.4	(0.2, 0.9)*	0.4	(0.2, 1.0)*
Some college	1.2	(0.6, 2.6)	1.2	(0.6, 2.7)	0.6	(0.3, 1.2)	0.6	(0.3, 1.2)	0.5	(0.2, 1.1)	0.5	(0.2, 1.1)
High school graduate	1.0	(0.5, 2.2)	1.1	(0.5, 2.4)	0.5	(0.2, 1.0)*	0.5	(0.2, 1.0)*	0.4	(0.2, 1.0)*	0.4	(0.2, 1.0)*
Less than high school	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	0.9		1.1		4.7		4.2		5.2		4.7	
Income <sup>6</sup>												
More than \$35K	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
\$19-35K	1.9	(1.1, 3.3)*	1.8	(1.0, 3.1)*	1.4	(0.9, 2.1)	1.2	(0.8, 2.0)	1.1	(0.7, 1.8)	1.1	(0.6, 1.7)
Less than \$19K	1.7	(1.0, 2.9)	1.7	(1.0, 3.0)	1.6	(1.0, 2.6)*	1.6	(1.0, 2.6)	1.4	(0.8, 2.4)	1.4	(0.8, 2.4)
$\chi^2_2$	6.0		5.3		4.0		3.5		1.8		1.8	
Employed (yes vs. no)	0.8	(0.5, 1.3)	0.8	(0.5, 1.4)	0.9	(0.6, 1.4)	1.0	(0.6, 1.5)	1.0	(0.6, 1.7)	1.1	(0.7, 1.8)
Overall $\chi^2_{15}$	28.6*		26.2*		40.3*		34.3*		27.4*		24.7	

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Abbreviations: CI, confidence interval; MVC, motor vehicle collision; OR, odds ratio; pain, global pain

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>Separated, widowed, or divorced

<sup>6</sup>Family income before taxes

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**Appendix Table 8. Net univariate associations of MVC characteristics after controlling socio-demographics with self-reported MDE with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
<b>Role in MVC</b>												
Passenger	0.6	(0.4, 0.9)*	0.6	(0.3, 0.9)*	1.7	(1.1, 2.7)*	1.7	(1.1, 2.7)*	3.0	(1.7, 5.5)*	3.0	(1.7, 5.5)*
Driver with others	0.9	(0.6, 1.4)	0.8	(0.5, 1.3)	1.2	(0.8, 1.9)	1.1	(0.7, 1.8)	1.3	(0.7, 2.4)	1.4	(0.7, 2.5)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	5.1		5.7		5.6		5.6		13.5*		13.6*	
<b>Your vehicle collided with</b>												
Other moving vehicle	0.9	(0.5, 1.4)	0.8	(0.4, 1.3)	0.9	(0.5, 1.4)	0.8	(0.5, 1.4)	0.9	(0.5, 1.8)	0.9	(0.5, 1.8)
Stationary object	1.2	(0.7, 2.3)	1.2	(0.6, 2.3)	0.9	(0.5, 1.7)	0.9	(0.5, 1.7)	0.8	(0.4, 1.8)	0.8	(0.4, 1.8)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	2.6		4.1		0.4		0.8		0.4		0.3	
<b>Damage to your vehicle</b>												
Severe	1.7	(0.8, 3.6)	1.1	(0.5, 2.5)	0.8	(0.4, 1.6)	0.6	(0.3, 1.2)	0.4	(0.1, 0.9)*	0.4	(0.1, 1.0)*
Moderate	1.0	(0.5, 2.4)	0.9	(0.4, 2.2)	0.6	(0.3, 1.3)	0.5	(0.2, 1.2)	0.3	(0.1, 0.9)*	0.3	(0.1, 0.9)*
Minor	0.9	(0.3, 2.3)	0.8	(0.3, 2.4)	0.5	(0.2, 1.3)	0.5	(0.2, 1.4)	0.4	(0.1, 1.2)	0.4	(0.1, 1.2)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	8.0*		0.9		3.9		2.5		5.0		4.8	
<b>Passengers with injuries (0-4 standardized)<sup>7</sup></b>												
Others with injuries (any vs. none) <sup>7</sup>	1.0	(0.8, 1.2)	0.9	(0.8, 1.1)	1.2	(1.0, 1.4)*	1.1	(1.0, 1.4)	1.3	(1.0, 1.6)*	1.3	(1.0, 1.6)*
Others with injuries (any vs. none) <sup>7</sup>	0.7	(0.4, 1.3)	0.6	(0.3, 1.1)	1.6	(0.9, 2.7)	1.5	(0.8, 2.5)	2.7	(1.4, 5.2)*	2.7	(1.4, 5.4)*
<b>Transportation to ED</b>												
Ambulance	1.0	(0.7, 1.5)	0.8	(0.5, 1.2)	1.4	(1.0, 2.2)	1.2	(0.8, 1.9)	1.6	(1.0, 2.7)	1.7	(1.0, 2.8)
Other immediately	0.9	(0.5, 1.6)	0.8	(0.5, 1.5)	0.8	(0.4, 1.4)	0.7	(0.4, 1.3)	0.8	(0.4, 1.7)	0.8	(0.4, 1.7)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	0.2		1.6		6.7*		3.7		6.1*		6.4*	
<b>Personal injury</b>												
Hit head (yes vs. no)	1.7	(1.2, 2.4)*	1.4	(1.0, 2.1)	1.8	(1.3, 2.7)*	1.6	(1.1, 2.4)*	1.5	(1.0, 2.4)	1.5	(1.0, 2.5)
TBI (yes vs. no)	1.8	(1.2, 2.6)*	1.2	(0.8, 1.9)	1.9	(1.3, 2.8)*	1.5	(1.0, 2.3)*	1.5	(0.9, 2.4)	1.5	(0.9, 2.5)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.4	(0.8, 2.3)	1.3	(0.8, 2.2)	1.3	(0.8, 2.2)	1.2	(0.7, 2.1)	1.2	(0.6, 2.2)	1.1	(0.6, 2.2)
Admitted (yes vs. no)	1.4	(0.6, 3.2)	1.2	(0.5, 3.0)	1.0	(0.4, 2.4)	0.9	(0.3, 2.2)	0.6	(0.2, 2.0)	0.6	(0.2, 2.0)
Severity of pain <sup>9</sup>	1.7	(1.4, 2.0)*	1.5	(1.2, 1.9)*	1.5	(1.2, 1.8)*	1.4	(1.1, 1.7)*	1.2	(0.9, 1.5)	1.2	(0.9, 1.5)
Severity of other somatic symptom <sup>10</sup>	1.2	(1.0, 1.4)	1.0	(0.9, 1.2)	1.0	(0.9, 1.2)	0.9	(0.8, 1.1)	1.0	(0.8, 1.2)	0.9	(0.8, 1.2)

Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MDE, major depressive episode; MVC, motor vehicle collision; OR, odds ratio; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 9. Net univariate associations of MVC characteristics after controlling socio-demographics with self-reported PCS with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
<b>Role in MVC</b>												
Passenger	1.5	(0.9, 2.4)	1.5	(0.9, 2.4)	1.2	(0.8, 1.9)	1.2	(0.8, 1.9)	1.1	(0.7, 1.8)	1.1	(0.7, 1.8)
Driver with others	1.2	(0.7, 1.9)	1.1	(0.7, 1.8)	1.1	(0.7, 1.8)	1.1	(0.7, 1.7)	1.1	(0.6, 1.8)	1.1	(0.6, 1.7)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	2.6		2.4		1.1		1.0		0.1		0.1	
<b>Your vehicle collided with</b>												
Other moving vehicle	0.7	(0.4, 1.3)	0.7	(0.4, 1.2)	1.5	(0.9, 2.4)	1.4	(0.9, 2.3)	1.8	(1.0, 3.1)*	1.7	(1.0, 3.0)
Stationary object	0.7	(0.4, 1.4)	0.7	(0.3, 1.4)	1.1	(0.6, 1.9)	1.0	(0.6, 1.9)	1.3	(0.7, 2.5)	1.3	(0.7, 2.5)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	1.3		1.9		4.0		3.4		4.6		4.4	
<b>Damage to your vehicle</b>												
Severe	1.6	(0.8, 3.4)	1.3	(0.6, 2.7)	1.6	(0.8, 3.1)	1.4	(0.7, 2.7)	1.4	(0.7, 3.1)	1.3	(0.6, 2.9)
Moderate	1.1	(0.5, 2.3)	1.1	(0.5, 2.2)	1.4	(0.7, 2.9)	1.4	(0.7, 2.8)	1.5	(0.7, 3.5)	1.5	(0.7, 3.4)
Minor	1.2	(0.5, 2.8)	1.2	(0.5, 3.0)	1.6	(0.7, 3.7)	1.6	(0.7, 3.8)	1.8	(0.7, 4.7)	1.8	(0.7, 4.8)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	4.7		1.2		1.8		1.2		1.6		1.7	
<b>Passengers with injuries (0-4 standardized)<sup>7</sup></b>												
Passengers with injuries (0-4 standardized) <sup>7</sup>	1.3	(1.1, 1.6)*	1.3	(1.0, 1.6)*	1.2	(1.0, 1.5)*	1.2	(1.0, 1.4)	1.1	(0.9, 1.3)	1.1	(0.9, 1.3)
<b>Others with injuries (any vs. none)<sup>7</sup></b>												
Others with injuries (any vs. none) <sup>7</sup>	1.7	(0.9, 3.3)	1.6	(0.8, 3.1)	1.9	(1.0, 3.5)*	1.8	(1.0, 3.3)	1.6	(0.8, 3.1)	1.6	(0.8, 3.1)
<b>Transportation to ED</b>												
Ambulance	1.1	(0.7, 1.6)	0.9	(0.6, 1.3)	1.3	(0.9, 2.0)	1.2	(0.8, 1.8)	1.3	(0.8, 2.0)	1.3	(0.8, 2.0)
Other immediately	0.9	(0.5, 1.7)	0.9	(0.5, 1.6)	0.7	(0.4, 1.1)	0.6	(0.4, 1.1)	0.6	(0.3, 1.1)	0.6	(0.3, 1.1)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	0.2		0.5		9.4*		7.2*		8.6*		8.0*	
<b>Personal injury</b>												
Hit head (yes vs. no)	2.1	(1.4, 3.0)*	1.8	(1.2, 2.6)*	1.3	(1.0, 1.9)	1.2	(0.9, 1.7)	1.0	(0.6, 1.4)	0.9	(0.6, 1.4)
TBI (yes vs. no)	2.0	(1.3, 3.2)*	1.5	(1.0, 2.5)	1.3	(0.9, 1.9)	1.1	(0.7, 1.6)	0.9	(0.6, 1.3)	0.8	(0.5, 1.3)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.0	(0.6, 1.7)	0.9	(0.5, 1.6)	0.6	(0.4, 1.0)*	0.6	(0.3, 1.0)*	0.5	(0.3, 0.9)*	0.5	(0.3, 0.9)*
Admitted (yes vs. no)	1.2	(0.4, 3.0)	1.0	(0.4, 2.7)	0.4	(0.2, 0.9)*	0.4	(0.2, 0.9)*	0.3	(0.1, 0.7)*	0.3	(0.1, 0.6)*
<b>Severity of pain<sup>9</sup></b>												
Severity of pain <sup>9</sup>	1.4	(1.1, 1.7)*	1.3	(1.1, 1.6)*	1.3	(1.1, 1.6)*	1.3	(1.1, 1.6)*	1.2	(1.0, 1.4)	1.2	(1.0, 1.4)
<b>Severity of other somatic symptom<sup>10</sup></b>												
Severity of other somatic symptom <sup>10</sup>	1.9	(1.6, 2.4)*	1.8	(1.5, 2.3)*	1.5	(1.3, 1.8)*	1.4	(1.2, 1.7)*	1.1	(0.9, 1.3)	1.1	(0.9, 1.3)

Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; PCS, Post-Concussive Syndrome; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 10. Net univariate associations of MVC characteristics after controlling socio-demographics with self-reported pain with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Role in MVC												
Passenger	1.2	(0.7, 2.0)	1.2	(0.7, 2.1)	1.0	(0.6, 1.5)	1.0	(0.6, 1.5)	0.9	(0.6, 1.4)	0.9	(0.6, 1.5)
Driver with others	0.8	(0.5, 1.4)	0.8	(0.4, 1.3)	1.1	(0.7, 1.7)	1.0	(0.6, 1.6)	1.2	(0.7, 2.0)	1.1	(0.7, 1.9)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	1.3		1.8		0.2		0.0		0.8		0.5	
Your vehicle collided with												
Other moving vehicle	0.6	(0.3, 1.1)	0.5	(0.3, 1.0)	0.9	(0.5, 1.4)	0.8	(0.5, 1.3)	1.0	(0.6, 1.8)	1.0	(0.6, 1.7)
Stationary object	0.5	(0.2, 1.1)	0.5	(0.2, 1.1)	0.7	(0.4, 1.3)	0.6	(0.3, 1.2)	0.8	(0.4, 1.6)	0.8	(0.4, 1.5)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	3.5		4.0		1.6		1.9		0.8		0.8	
Damage to your vehicle												
Severe	1.4	(0.7, 3.2)	1.2	(0.5, 2.7)	1.9	(0.9, 3.7)	1.5	(0.7, 3.0)	1.8	(0.8, 3.8)	1.5	(0.7, 3.2)
Moderate	1.0	(0.4, 2.2)	1.0	(0.4, 2.2)	1.2	(0.6, 2.5)	1.1	(0.5, 2.4)	1.3	(0.6, 2.9)	1.3	(0.6, 2.8)
Minor	2.3	(0.8, 6.9)	2.6	(0.9, 8.0)	1.9	(0.8, 4.6)	2.0	(0.8, 4.8)	1.5	(0.6, 3.9)	1.6	(0.6, 4.0)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	5.5		5.0		6.7		3.9		3.1		1.5	
Passengers with injuries (0-4 standardized) <sup>7</sup>												
Passengers with injuries (0-4 standardized) <sup>7</sup>	1.1	(0.9, 1.4)	1.1	(0.9, 1.4)	1.1	(0.9, 1.3)	1.1	(0.9, 1.3)	1.1	(0.9, 1.3)	1.0	(0.9, 1.3)
Others with injuries (any vs. none) <sup>7</sup>	1.7	(0.8, 3.6)	1.5	(0.7, 3.3)	0.9	(0.5, 1.5)	0.8	(0.5, 1.4)	0.6	(0.4, 1.2)	0.6	(0.3, 1.1)
Transportation to ED												
Ambulance	1.5	(0.9, 2.3)	1.2	(0.8, 2.0)	1.2	(0.8, 1.8)	1.1	(0.7, 1.6)	1.0	(0.7, 1.6)	0.9	(0.6, 1.5)
Other immediately	0.8	(0.4, 1.5)	0.8	(0.4, 1.4)	0.6	(0.4, 1.1)	0.6	(0.4, 1.1)	0.6	(0.3, 1.0)	0.6	(0.3, 1.0)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	5.2		3.0		7.3*		4.9		5.1		4.2	
Personal injury												
Hit head (yes vs. no)	1.1	(0.7, 1.6)	0.9	(0.6, 1.4)	1.2	(0.9, 1.7)	1.1	(0.8, 1.5)	1.1	(0.8, 1.7)	1.1	(0.7, 1.6)
TBI (yes vs. no)	1.1	(0.7, 1.7)	0.8	(0.5, 1.2)	1.0	(0.7, 1.4)	0.7	(0.5, 1.1)	0.9	(0.6, 1.3)	0.7	(0.5, 1.1)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.8	(0.9, 3.6)	1.7	(0.8, 3.3)	1.4	(0.8, 2.4)	1.4	(0.8, 2.3)	1.3	(0.7, 2.3)	1.2	(0.7, 2.2)
Admitted (yes vs. no)	0.7	(0.3, 1.7)	0.6	(0.2, 1.4)	0.7	(0.3, 1.7)	0.6	(0.3, 1.5)	0.7	(0.3, 1.9)	0.7	(0.3, 1.8)
Severity of pain <sup>9</sup>	1.8	(1.4, 2.2)*	1.7	(1.4, 2.1)*	1.5	(1.3, 1.8)*	1.4	(1.2, 1.7)*	1.3	(1.0, 1.5)*	1.2	(1.0, 1.5)
Severity of other somatic symptom <sup>10</sup>	1.3	(1.0, 1.6)*	1.2	(1.0, 1.5)	1.2	(1.0, 1.4)	1.1	(0.9, 1.3)	1.0	(0.8, 1.2)	1.0	(0.8, 1.2)

Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; pain, global pain; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 11. Net multivariate associations of MVC characteristics after controlling socio-demographics with self-reported PTSD with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Role in MVC												
Passenger	0.9	(0.6, 1.6)	1.0	(0.6, 1.7)	1.9	(1.1, 3.1)*	2.1	(1.2, 3.5)*	3.4	(1.7, 6.6)*	3.5	(1.8, 6.7)*
Driver with others	1.3	(0.8, 2.1)	1.3	(0.7, 2.1)	1.2	(0.7, 1.9)	1.2	(0.7, 2.0)	1.1	(0.6, 2.1)	1.1	(0.6, 2.1)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	1.3		1.0		6.6*		8.0*		15.3*		15.5*	
Your vehicle collided with												
Other moving vehicle	0.8	(0.5, 1.3)	0.7	(0.4, 1.2)	1.0	(0.6, 1.6)	0.9	(0.5, 1.6)	1.2	(0.7, 2.4)	1.2	(0.6, 2.3)
Stationary object	0.7	(0.4, 1.2)	0.7	(0.4, 1.3)	0.6	(0.3, 1.2)	0.6	(0.3, 1.2)	0.7	(0.3, 1.5)	0.6	(0.3, 1.5)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	1.7		1.8		3.9		2.5		3.9		3.8	
Damage to your vehicle												
Severe	1.1	(0.6, 2.3)	0.8	(0.4, 1.7)	1.3	(0.7, 2.8)	0.9	(0.4, 2.0)	1.1	(0.4, 2.7)	1.0	(0.4, 2.5)
Moderate	0.9	(0.4, 1.9)	0.8	(0.4, 1.7)	1.1	(0.5, 2.4)	1.0	(0.5, 2.2)	1.0	(0.4, 2.7)	1.0	(0.4, 2.7)
Minor	0.9	(0.4, 2.1)	0.9	(0.4, 2.2)	1.2	(0.5, 2.9)	1.2	(0.5, 3.0)	1.5	(0.5, 4.4)	1.6	(0.5, 4.8)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	1.5		0.4		1.1		0.7		0.8		1.4	
Passengers with injuries (0-4 standardized) <sup>7</sup>												
	1.2	(0.9, 1.5)	1.1	(0.9, 1.4)	1.1	(0.9, 1.3)	1.0	(0.8, 1.3)	0.9	(0.7, 1.2)	0.9	(0.7, 1.2)
Others with injuries (any vs. none) <sup>7</sup>												
	1.0	(0.6, 1.7)	1.0	(0.5, 1.7)	1.2	(0.7, 2.0)	1.2	(0.6, 2.1)	1.5	(0.7, 2.9)	1.5	(0.7, 3.0)
Transportation to ED												
Ambulance	1.0	(0.7, 1.6)	0.9	(0.6, 1.3)	1.5	(1.0, 2.3)*	1.3	(0.9, 2.0)	1.9	(1.1, 3.3)*	1.8	(1.0, 3.0)*
Other immediately	1.7	(1.0, 3.0)	1.6	(0.9, 2.9)	1.3	(0.7, 2.2)	1.2	(0.7, 2.1)	1.2	(0.6, 2.3)	1.2	(0.6, 2.3)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	4.4		5.3		4.5		1.7		7.0*		5.0	
Personal injury												
Hit head (yes vs. no)	1.0	(0.7, 1.4)	1.0	(0.6, 1.5)	1.0	(0.7, 1.5)	1.0	(0.7, 1.5)	1.1	(0.7, 1.8)	1.1	(0.7, 1.9)
TBI (yes vs. no)	1.9	(1.2, 3.0)*	1.4	(0.8, 2.2)	1.5	(1.0, 2.4)	1.1	(0.7, 1.9)	1.0	(0.5, 1.8)	0.9	(0.5, 1.7)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.1	(0.7, 1.9)	1.1	(0.6, 1.9)	0.8	(0.5, 1.3)	0.8	(0.5, 1.3)	0.8	(0.4, 1.6)	0.8	(0.4, 1.6)
Admitted (yes vs. no)	0.9	(0.4, 2.1)	0.8	(0.3, 1.9)	0.7	(0.3, 1.8)	0.6	(0.3, 1.6)	0.7	(0.2, 2.1)	0.7	(0.2, 2.1)
Severity of pain <sup>9</sup>												
	1.3	(1.1, 1.6)*	1.3	(1.1, 1.6)*	1.3	(1.1, 1.6)*	1.2	(1.0, 1.5)*	1.1	(0.8, 1.3)	1.0	(0.8, 1.3)
Severity of other somatic symptom <sup>10</sup>												
	1.1	(0.9, 1.3)	1.0	(0.8, 1.2)	0.9	(0.8, 1.1)	0.9	(0.7, 1.0)	0.8	(0.7, 1.1)	0.8	(0.7, 1.0)
Overall $\chi^2_{17}$	36.6*		18.0		37.4*		25.3		32.9*		31.8*	

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Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; PTSD, post-traumatic stress disorder; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 12. Net multivariate associations of MVC characteristics after controlling socio-demographics with self-reported MDE with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
<b>Role in MVC</b>												
Passenger	0.6	(0.3, 1.0)*	0.5	(0.3, 1.0)*	1.6	(0.9, 2.7)	1.6	(0.9, 2.8)	2.8	(1.4, 5.7)*	2.8	(1.4, 5.8)*
Driver with others	0.9	(0.5, 1.5)	0.8	(0.5, 1.5)	1.2	(0.7, 2.0)	1.2	(0.7, 2.0)	1.2	(0.6, 2.5)	1.3	(0.6, 2.6)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	4.6		4.1		2.7		3.1		8.8*		8.9*	
<b>Your vehicle collided with</b>												
Other moving vehicle	0.9	(0.5, 1.5)	0.8	(0.5, 1.4)	0.8	(0.5, 1.4)	0.8	(0.5, 1.4)	0.9	(0.5, 1.9)	0.9	(0.5, 1.9)
Stationary object	1.1	(0.6, 2.1)	1.2	(0.6, 2.3)	0.8	(0.4, 1.6)	0.9	(0.4, 1.7)	0.8	(0.3, 1.8)	0.8	(0.3, 1.8)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	1.1		2.4		0.5		0.5		0.5		0.5	
<b>Damage to your vehicle</b>												
Severe	1.7	(0.7, 3.8)	1.2	(0.5, 2.9)	0.8	(0.4, 1.7)	0.6	(0.3, 1.4)	0.3	(0.1, 0.9)*	0.4	(0.1, 1.0)*
Moderate	1.1	(0.5, 2.7)	1.1	(0.4, 2.6)	0.7	(0.3, 1.5)	0.6	(0.3, 1.4)	0.4	(0.1, 1.0)	0.4	(0.1, 1.1)
Minor	1.0	(0.4, 2.7)	0.9	(0.3, 2.8)	0.6	(0.2, 1.7)	0.6	(0.2, 1.6)	0.4	(0.1, 1.5)	0.4	(0.1, 1.5)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	5.0		0.8		1.4		1.5		4.7		4.0	
<b>Passengers with injuries (0-4 standardized)<sup>7</sup></b>												
Passengers with injuries (0-4 standardized) <sup>7</sup>	1.1	(0.8, 1.3)	1.0	(0.8, 1.3)	1.1	(0.9, 1.4)	1.1	(0.8, 1.3)	1.1	(0.8, 1.5)	1.1	(0.8, 1.5)
<b>Others with injuries (any vs. none)<sup>7</sup></b>												
Others with injuries (any vs. none) <sup>7</sup>	0.6	(0.3, 1.2)	0.6	(0.3, 1.2)	1.3	(0.8, 2.4)	1.3	(0.8, 2.4)	2.4	(1.2, 4.9)*	2.5	(1.2, 5.1)*
<b>Transportation to ED</b>												
Ambulance	0.9	(0.6, 1.5)	0.8	(0.5, 1.2)	1.2	(0.8, 1.9)	1.1	(0.7, 1.8)	1.4	(0.8, 2.4)	1.4	(0.8, 2.5)
Other immediately	1.2	(0.6, 2.1)	1.0	(0.6, 1.9)	0.8	(0.4, 1.6)	0.8	(0.4, 1.5)	0.7	(0.3, 1.6)	0.7	(0.3, 1.6)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	0.5		1.9		2.5		1.6		3.8		4.2	
<b>Personal injury</b>												
Hit head (yes vs. no)	1.2	(0.8, 1.9)	1.3	(0.8, 2.1)	1.3	(0.8, 2.1)	1.4	(0.9, 2.2)	1.4	(0.8, 2.5)	1.4	(0.8, 2.5)
TBI (yes vs. no)	1.3	(0.8, 2.1)	1.0	(0.6, 1.6)	1.6	(1.0, 2.5)	1.3	(0.8, 2.1)	1.2	(0.7, 2.3)	1.3	(0.7, 2.4)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.1	(0.7, 2.0)	1.2	(0.7, 2.1)	1.1	(0.6, 1.9)	1.1	(0.6, 1.9)	1.0	(0.5, 2.1)	1.0	(0.5, 2.1)
Admitted (yes vs. no)	1.0	(0.4, 2.7)	1.0	(0.4, 2.6)	0.7	(0.3, 1.9)	0.7	(0.2, 1.8)	0.5	(0.1, 1.8)	0.5	(0.1, 1.8)
<b>Severity of pain<sup>9</sup></b>												
Severity of pain <sup>9</sup>	1.6	(1.3, 2.0)*	1.5	(1.2, 1.9)*	1.4	(1.1, 1.7)*	1.4	(1.1, 1.7)*	1.2	(0.9, 1.5)	1.2	(0.9, 1.5)
<b>Severity of other somatic symptom<sup>10</sup></b>												
Severity of other somatic symptom <sup>10</sup>	1.0	(0.9, 1.3)	1.0	(0.8, 1.2)	0.9	(0.7, 1.1)	0.8	(0.7, 1.0)	0.8	(0.7, 1.1)	0.9	(0.7, 1.1)
Overall $\chi^2_{17}$	44.0*		30.3*		36.6*		27.1		34.8*		35.4*	

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Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MDE, major depressive episode; MVC, motor vehicle collision; OR, odds ratio; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 13. Net multivariate associations of MVC characteristics after controlling socio-demographics with self-reported PCS with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week				Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>		M2 <sup>2</sup>		M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Role in MVC												
Passenger	1.2	(0.7, 2.2)	1.3	(0.7, 2.3)	0.9	(0.5, 1.6)	0.9	(0.6, 1.6)	0.9	(0.5, 1.6)	0.9	(0.5, 1.6)
Driver with others	1.0	(0.6, 1.8)	1.0	(0.6, 1.8)	0.9	(0.5, 1.5)	0.9	(0.5, 1.5)	0.9	(0.5, 1.6)	0.9	(0.5, 1.6)
Driver alone	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	0.5		0.7		0.2		0.2		0.3		0.3	
Your vehicle collided with												
Other moving vehicle	0.7	(0.4, 1.2)	0.7	(0.4, 1.2)	1.5	(0.9, 2.5)	1.5	(0.9, 2.5)	1.7	(1.0, 3.1)	1.7	(1.0, 3.1)
Stationary object	0.7	(0.3, 1.4)	0.7	(0.3, 1.5)	1.3	(0.7, 2.3)	1.3	(0.7, 2.4)	1.6	(0.8, 3.1)	1.6	(0.8, 3.2)
Other <sup>5</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	1.7		2.0		2.7		2.4		3.4		3.3	
Damage to your vehicle												
Severe	1.2	(0.6, 2.7)	1.1	(0.5, 2.4)	1.2	(0.6, 2.4)	1.1	(0.5, 2.3)	1.1	(0.5, 2.5)	1.1	(0.5, 2.5)
Moderate	1.0	(0.4, 2.2)	0.9	(0.4, 2.1)	1.2	(0.6, 2.7)	1.2	(0.6, 2.6)	1.3	(0.5, 3.2)	1.3	(0.5, 3.2)
Minor	1.1	(0.4, 2.7)	1.1	(0.4, 2.8)	1.6	(0.6, 3.9)	1.6	(0.6, 3.9)	1.8	(0.7, 5.1)	1.8	(0.7, 5.1)
Other <sup>6</sup>	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_3$	1.2		0.5		1.2		1.5		2.3		2.4	
Passengers with injuries (0-4 standardized) <sup>7</sup>												
Passengers with injuries (0-4 standardized) <sup>7</sup>	1.3	(1.0, 1.7)	1.2	(0.9, 1.6)	1.2	(0.9, 1.5)	1.2	(0.9, 1.5)	1.1	(0.8, 1.4)	1.1	(0.8, 1.4)
Others with injuries (any vs. none) <sup>7</sup>	1.5	(0.7, 3.0)	1.4	(0.7, 2.9)	1.7	(0.9, 3.3)	1.8	(0.9, 3.3)	1.5	(0.8, 3.1)	1.5	(0.8, 3.1)
Transportation to ED												
Ambulance	1.0	(0.6, 1.5)	0.9	(0.6, 1.4)	1.3	(0.9, 2.1)	1.3	(0.8, 2.0)	1.4	(0.8, 2.2)	1.3	(0.8, 2.2)
Other immediately	1.2	(0.7, 2.3)	1.1	(0.6, 2.2)	0.7	(0.4, 1.2)	0.7	(0.4, 1.2)	0.5	(0.3, 1.0)	0.5	(0.3, 1.0)
Other delay	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--	Ref	--
$\chi^2_2$	0.6		0.9		7.3*		6.8*		9.9*		9.6*	
Personal injury												
Hit head (yes vs. no)	1.6	(1.0, 2.6)*	1.6	(1.0, 2.6)*	1.2	(0.8, 1.8)	1.2	(0.8, 1.8)	1.0	(0.6, 1.6)	1.0	(0.6, 1.6)
TBI (yes vs. no)	1.0	(0.6, 1.7)	0.8	(0.5, 1.5)	0.9	(0.6, 1.5)	0.8	(0.5, 1.4)	0.9	(0.5, 1.6)	0.9	(0.5, 1.6)
AIS-Max <sup>8</sup> (2+ vs. 1)	0.8	(0.4, 1.5)	0.8	(0.4, 1.4)	0.6	(0.3, 1.0)	0.6	(0.3, 1.0)	0.6	(0.3, 1.0)	0.6	(0.3, 1.0)
Admitted (yes vs. no)	1.0	(0.4, 2.9)	1.0	(0.3, 2.8)	0.4	(0.2, 1.1)	0.4	(0.2, 1.0)	0.3	(0.1, 0.8)*	0.3	(0.1, 0.8)*
Severity of pain <sup>9</sup>	1.2	(1.0, 1.5)*	1.2	(1.0, 1.5)	1.3	(1.0, 1.5)*	1.2	(1.0, 1.5)*	1.2	(0.9, 1.4)	1.2	(0.9, 1.4)
Severity of other somatic symptom <sup>10</sup>	1.8	(1.5, 2.3)*	1.8	(1.4, 2.2)*	1.4	(1.2, 1.7)*	1.4	(1.2, 1.7)*	1.0	(0.8, 1.3)	1.0	(0.8, 1.3)
Overall $\chi^2_{17}$	57.1*		46.3*		48.3*		43.5*		29.7*		29.5*	

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Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; PCS, Post-Concussive Syndrome; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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**Appendix Table 14. Net multivariate associations of MVC characteristics after controlling socio-demographics with self-reported pain with and without controls for peritraumatic distress and dissociation in the Freeze 1 AURORA MVC sample (n = 666)**

	Two-week		Eight-week				Eight-week controlling two-week			
	M1 <sup>1</sup>	M2 <sup>2</sup>	M3 <sup>1</sup>		M4 <sup>2</sup>		M5 <sup>3</sup>		M6 <sup>4</sup>	
	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
Role in MVC										
Passenger	0.9 (0.5, 1.8)	1.0 (0.5, 1.9)	0.9 (0.5, 1.5)	0.9 (0.5, 1.5)	0.8 (0.5, 1.5)	0.9 (0.5, 1.5)	0.8 (0.5, 1.5)	0.9 (0.5, 1.5)	0.9 (0.5, 1.5)	0.9 (0.5, 1.5)
Driver with others	0.7 (0.4, 1.4)	0.7 (0.4, 1.4)	1.0 (0.6, 1.7)	1.0 (0.6, 1.7)	1.1 (0.6, 2.0)	1.0 (0.6, 1.7)	1.1 (0.6, 2.0)	1.1 (0.6, 1.9)	1.1 (0.6, 1.9)	1.1 (0.6, 1.9)
Driver alone	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --
$\chi^2_2$	0.9	1.0	0.3	0.2	0.8	0.2	0.8	0.5	0.5	0.5
Your vehicle collided with										
Other moving vehicle	0.5 (0.3, 1.1)	0.5 (0.2, 1.0)	0.9 (0.5, 1.5)	0.9 (0.5, 1.5)	1.1 (0.6, 1.9)	0.9 (0.5, 1.5)	1.1 (0.6, 1.9)	1.0 (0.6, 1.8)	1.0 (0.6, 1.8)	1.0 (0.6, 1.8)
Stationary object	0.5 (0.2, 1.1)	0.5 (0.2, 1.2)	0.6 (0.3, 1.2)	0.7 (0.3, 1.3)	0.8 (0.4, 1.5)	0.7 (0.3, 1.3)	0.8 (0.4, 1.5)	0.8 (0.4, 1.5)	0.8 (0.4, 1.5)	0.8 (0.4, 1.5)
Other <sup>5</sup>	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --
$\chi^2_2$	3.5	3.6	2.3	1.8	1.6	1.8	1.6	1.4	1.4	1.4
Damage to your vehicle										
Severe	1.5 (0.6, 3.5)	1.4 (0.6, 3.3)	1.8 (0.9, 3.9)	1.5 (0.7, 3.3)	1.7 (0.8, 3.7)	1.5 (0.7, 3.3)	1.7 (0.8, 3.7)	1.5 (0.7, 3.3)	1.5 (0.7, 3.3)	1.5 (0.7, 3.3)
Moderate	1.1 (0.4, 2.6)	1.1 (0.4, 2.7)	1.2 (0.6, 2.7)	1.2 (0.5, 2.5)	1.3 (0.6, 2.9)	1.2 (0.5, 2.5)	1.3 (0.6, 2.9)	1.2 (0.5, 2.7)	1.2 (0.5, 2.7)	1.2 (0.5, 2.7)
Minor	2.7 (0.9, 8.7)	3.2 (1.0, 10.4)	2.1 (0.8, 5.3)	2.1 (0.8, 5.3)	1.6 (0.6, 4.2)	2.1 (0.8, 5.3)	1.6 (0.6, 4.2)	1.6 (0.6, 4.2)	1.6 (0.6, 4.2)	1.6 (0.6, 4.2)
Other <sup>6</sup>	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --
$\chi^2_3$	5.0	5.5	5.8	4.4	2.7	4.4	2.7	1.6	1.6	1.6
Passengers with injuries (0-4 standardized) <sup>7</sup>										
Others with injuries (any vs. none) <sup>7</sup>	1.2 (0.9, 1.6)	1.1 (0.8, 1.5)	1.1 (0.9, 1.4)	1.1 (0.9, 1.4)	1.1 (0.8, 1.4)	1.1 (0.9, 1.4)	1.1 (0.8, 1.4)	1.1 (0.8, 1.4)	1.1 (0.8, 1.4)	1.1 (0.8, 1.4)
Transportation to ED	1.4 (0.6, 3.0)	1.4 (0.6, 3.0)	0.7 (0.4, 1.3)	0.7 (0.4, 1.3)	0.6 (0.3, 1.1)	0.7 (0.4, 1.3)	0.6 (0.3, 1.1)	0.6 (0.3, 1.1)	0.6 (0.3, 1.1)	0.6 (0.3, 1.1)
Ambulance	1.6 (1.0, 2.7)	1.5 (0.9, 2.6)	1.3 (0.9, 2.0)	1.2 (0.8, 1.8)	1.1 (0.7, 1.7)	1.2 (0.8, 1.8)	1.1 (0.7, 1.7)	1.0 (0.6, 1.6)	1.0 (0.6, 1.6)	1.0 (0.6, 1.6)
Other immediately	1.2 (0.6, 2.2)	1.1 (0.5, 2.1)	0.8 (0.5, 1.4)	0.8 (0.4, 1.3)	0.6 (0.3, 1.2)	0.8 (0.4, 1.3)	0.6 (0.3, 1.2)	0.6 (0.3, 1.2)	0.6 (0.3, 1.2)	0.6 (0.3, 1.2)
Other delay	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --	Ref --
$\chi^2_2$	4.0	3.2	4.1	3.0	3.5	3.0	3.5	3.1	3.1	3.1
Personal injury										
Hit head (yes vs. no)	0.9 (0.5, 1.5)	0.8 (0.5, 1.4)	1.2 (0.8, 1.8)	1.2 (0.8, 1.9)	1.2 (0.7, 1.9)	1.2 (0.8, 1.9)	1.2 (0.7, 1.9)	1.2 (0.8, 2.0)	1.2 (0.8, 2.0)	1.2 (0.8, 2.0)
TBI (yes vs. no)	0.7 (0.4, 1.4)	0.6 (0.3, 1.1)	0.7 (0.4, 1.1)	0.6 (0.3, 1.0)*	0.7 (0.4, 1.2)	0.6 (0.3, 1.0)*	0.7 (0.4, 1.2)	0.6 (0.4, 1.1)	0.6 (0.4, 1.1)	0.6 (0.4, 1.1)
AIS-Max <sup>8</sup> (2+ vs. 1)	1.7 (0.8, 3.6)	1.6 (0.7, 3.4)	1.5 (0.9, 2.8)	1.5 (0.9, 2.7)	1.5 (0.8, 2.7)	1.5 (0.9, 2.7)	1.5 (0.8, 2.7)	1.5 (0.8, 2.7)	1.5 (0.8, 2.7)	1.5 (0.8, 2.7)
Admitted (yes vs. no)	0.5 (0.2, 1.5)	0.5 (0.2, 1.3)	0.6 (0.3, 1.6)	0.6 (0.2, 1.5)	0.7 (0.2, 1.8)	0.6 (0.2, 1.5)	0.7 (0.2, 1.8)	0.7 (0.2, 1.8)	0.7 (0.2, 1.8)	0.7 (0.2, 1.8)
Severity of pain <sup>9</sup>	1.7 (1.4, 2.2)*	1.7 (1.4, 2.2)*	1.5 (1.2, 1.8)*	1.4 (1.2, 1.7)*	1.2 (1.0, 1.5)*	1.4 (1.2, 1.7)*	1.2 (1.0, 1.5)*	1.2 (1.0, 1.5)	1.2 (1.0, 1.5)	1.2 (1.0, 1.5)
Severity of other somatic symptom <sup>10</sup>	1.2 (1.0, 1.5)	1.2 (0.9, 1.5)	1.1 (0.9, 1.3)	1.1 (0.9, 1.3)	1.0 (0.8, 1.2)	1.1 (0.9, 1.3)	1.0 (0.8, 1.2)	1.0 (0.8, 1.2)	1.0 (0.8, 1.2)	1.0 (0.8, 1.2)
Overall $\chi^2_{17}$	47.1*	43.5*	37.4*	31.2*	19.4	31.2*	19.4	17.3	17.3	17.3

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Abbreviations: AIS, Abbreviated Injury Scale; CI, confidence interval; ED, emergency department; MVC, motor vehicle collision; OR, odds ratio; pain, global pain; TBI, traumatic brain injury

\*Significant at the .05 level, two-sided test

<sup>1</sup>Without controls for peritraumatic distress/dissociation

<sup>2</sup>With controls for peritraumatic distress/dissociation

<sup>3</sup>With controls for two-week PTSD (both continuous and categorical) but not peritraumatic distress/dissociation

<sup>4</sup>With controls for two-week PTSD (both continuous and categorical) and peritraumatic distress/dissociation

<sup>5</sup>No collision (n=81), "other" (n=8), and "don't know" (n=8)

<sup>6</sup>None (n=12) and "don't know" (n=31)

<sup>7</sup>Moderate or severe injuries

<sup>8</sup>Max score of the nine AIS regions

<sup>9</sup>Self-reported 0-10 scale on pain intensity right now, standardized to mean=0 and standard deviation=1

<sup>10</sup>Sum of all differences in each somatic symptom between 30-day (self-reported 0-10 scale) and right now (self-reported 0-10 scale), standardized to mean=0 and standard deviation=1

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