

Supplementary file S2

Table S1. Bivariate relationships between injury outcomes and participant demographics

			% Car crash				% Burn [#]				
						2+				2+	
			n	Ever	Never	Once	times	Ever	Never	Once	times
All		4783	52.6	47.4	24.4	28.2	11.6	88.4	9.6	2.1	
ACE count	0	2412	48.5	51.5	23.4	25.2	9.0	91.0	7.9	1.1	
	1	1056	52.9	47.1	24.3	28.6	11.3	88.7	9.2	2.1	
	2-3	813	58.3	41.7	26.9	31.4	14.5	85.5	11.7	2.8	
	4+	502	62.5	37.5	25.5	37.1	20.3	79.7	14.9	5.4	
	X ²		46.462			52.62	59.888			72.658	
	p		<0.001			<0.001	<0.001			<0.001	
Gender	Male	1809	63.0	37.0	23.9	39.1	13.2	86.8	10.4	2.8	
	Female	2974	46.3	53.7	24.7	21.6	10.7	89.3	9.0	1.6	
	X ²		125.580			189.21	7.135			10.03	
	p		<0.001			<0.001	0.008			0.007	
Age group	18-29	448	39.5	60.5	25.4	14.1	16.3	83.7	11.8	4.5	
	30-39	521	52.4	47.6	26.7	25.7	13.1	86.9	10.2	2.9	
	40-49	787	63.0	37.0	23.9	39.1	12.5	87.5	10.2	2.3	
	50-59	1037	58.4	41.6	23.9	34.5	12.1	87.9	9.9	2.1	
	60-69	898	55.0	45.0	24.9	30.1	11.7	88.3	10.2	1.4	
	70+	1092	43.2	56.8	23.4	19.9	8.0	92.0	7.0	1.0	
	X ²		119.886			174.043	25.479			36.091	
	p		<0.001			<0.001	<0.001			<0.001	
Ethnicity	White	4483	52.9	47.1	24.4	28.5	11.6	88.4	9.6	2.0	
	Other	300	49.3	50.7	24.7	24.7	12.3	87.7	9.3	3.0	
	X ²		1.408			2.185	0.157			1.373	
	p		0.235			0.335	0.692			0.503	
Deprivation quintile	1 - most	1204	47.8	52.2	23.5	24.3	15.6	84.4	11.9	3.7	
	2	865	51.4	48.6	24.2	27.3	10.3	89.7	9.0	1.3	
	3	847	51.4	48.6	23.1	28.2	13.0	87.0	10.5	2.5	
	4	926	56.0	44.0	26.5	29.6	9.4	90.6	8.2	1.2	
	5 - least	941	57.8	42.2	25.0	32.8	8.7	91.3	7.5	1.2	
	X ²		26.972			31.604	33.929			44.239	
	p		<0.001			<0.001	<0.001			<0.001	
Survey method	Telephone	3944	52.8	47.2	23.7	29.0	10.8	89.2	9.1	1.7	
	Online	839	52.1	47.9	27.7	24.4	15.4	84.6	11.7	3.7	
	X ²		0.128			9.601	13.935			19.414	
	p		0.721			0.008	<0.001			<0.001	
Study area	Bolton	1865	53.3	46.7	22.7	30.6	12.2	87.8	9.9	2.3	
	Wales	2918	52.2	47.8	25.5	26.7	11.3	88.7	9.4	1.9	
	X ²		0.523			9.751	0.891			1.235	
	p		0.470			0.008	0.345			0.539	

ACE = adverse childhood experience.

Table S2. Logistic regression analysis of relationships between ACEs, socio-demographics, study area and survey type and having ever experienced injury types

		Car crash				Burn [#]			
		Low		High		Low		High	
		AOR	CI	CI	P	AOR	CI	CI	P
ACE count	0	Ref.			<0.001	Ref.			<0.001
	1	1.22	1.05	1.41	0.011	1.22	0.96	1.55	0.101
	2-3	1.49	1.26	1.77	<0.001	1.54	1.21	1.97	0.001
	4+	1.88	1.53	2.32	<0.001	2.24	1.71	2.93	<0.001
Gender	Male	2.13	1.88	2.41	<0.001	1.35	1.13	1.63	0.001
Age group	18-29	Ref.			<0.001	Ref.			0.059
	30-39	1.85	1.42	2.40	<0.001	0.84	0.58	1.20	0.334
	40-49	2.79	2.17	3.57	<0.001	0.84	0.60	1.19	0.327
	50-59	2.19	1.72	2.78	<0.001	0.86	0.62	1.19	0.361
	60-69	1.86	1.46	2.38	<0.001	0.85	0.61	1.20	0.367
	70+	1.15	0.91	1.47	0.245	0.59	0.41	0.84	0.003
Ethnicity	White	1.17	0.90	1.51	0.240	1.27	0.87	1.85	0.225
Deprivation quintile	1 - most	0.62	0.52	0.75	<0.001	1.79	1.34	2.38	<0.001
	2	0.75	0.62	0.91	0.003	1.14	0.83	1.57	0.422
	3	0.77	0.64	0.94	0.009	1.54	1.13	2.09	0.006
	4	0.94	0.78	1.14	0.530	1.08	0.79	1.48	0.639
	5 - least	Ref.			<0.001	Ref.			<0.001
Survey method	Online	0.99	0.84	1.16	0.899	1.34	1.07	1.68	0.011
Study area	Wales	0.88	0.77	1.00	0.045	0.93	0.77	1.13	0.469

AOR = adjusted odds ratio; CI = confidence interval (95%); Ref = reference category. Reference categories for gender, ethnicity, survey method and study area were female, other, telephone and Bolton Local Authority respectively. [#]Severe enough to require professional medical attention. Full wording of all questions is provided in Supplementary file S1.

Table S3. Multinomial logistic regression analysis of ACEs, socio-demographics, survey method and associations with car crashes and burns

		Car crash										Burn [#]									
		Once					2+ times					Once					2+ times				
		Reference	Low	High			Low	High			Reference	Low	High			Low	High				
		category*	AOR	CI	CI	P	AOR	CI	CI	P	category*	AOR	CI	CI	P	AOR	CI	CI	P		
ACE count	0	<0.001	Ref.				Ref.				<0.001	Ref.				Ref.					
	1		1.15	0.96	1.38	0.130	1.28	1.07	1.54	0.007		1.15	0.89	1.49	0.292	1.74	0.98	3.08	0.060		
	2-3		1.43	1.17	1.75	0.001	1.54	1.26	1.89	<0.001		1.45	1.11	1.89	0.006	2.17	1.22	3.85	0.008		
	4+		1.53	1.18	1.97	0.001	2.30	1.80	2.93	<0.001		1.95	1.45	2.62	<0.001	4.13	2.34	7.29	<0.001		
Gender	Male	<0.001	1.47	1.26	1.71	<0.001	3.01	2.59	3.49	<0.001	0.001	1.25	1.03	1.53	0.028	1.98	1.32	2.98	0.001		
Age	18-29	<0.001	Ref.				Ref.				0.140	Ref.				Ref.					
	30-39		1.43	1.05	1.94	0.022	2.66	1.86	3.80	<0.001		0.88	0.58	1.32	0.531	0.73	0.36	1.48	0.386		
	40-49		1.68	1.26	2.26	<0.001	4.95	3.55	6.90	<0.001		0.92	0.63	1.34	0.650	0.65	0.33	1.27	0.203		
	50-59		1.45	1.10	1.92	0.009	3.62	2.62	4.99	<0.001		0.93	0.64	1.34	0.690	0.67	0.35	1.29	0.226		
	60-69		1.40	1.05	1.86	0.021	2.76	1.98	3.85	<0.001		0.98	0.67	1.42	0.899	0.48	0.23	1.02	0.057		
	70+		1.05	0.79	1.39	0.746	1.40	1.00	1.96	0.049		0.66	0.45	0.98	0.041	0.35	0.16	0.79	0.011		
Ethnicity	White	0.227	1.05	0.77	1.42	0.781	1.31	0.95	1.80	0.095	0.447	1.28	0.83	1.95	0.264	1.27	0.60	2.70	0.532		
Deprivation quintile	1 - most		0.73	0.59	0.92	0.007	0.53	0.42	0.66	<0.001		1.61	1.18	2.20	0.002	2.81	1.41	5.61	0.003		
	2		0.82	0.65	1.04	0.094	0.69	0.55	0.86	0.001		1.17	0.83	1.64	0.364	0.97	0.42	2.27	0.948		
	3		0.79	0.63	1.01	0.056	0.75	0.60	0.95	0.016		1.44	1.04	2.01	0.029	2.12	1.01	4.45	0.048		
	4		1.03	0.82	1.29	0.828	0.87	0.69	1.09	0.211		1.09	0.78	1.53	0.620	1.01	0.43	2.35	0.982		
	5 - least	<0.001	Ref.				Ref.				<0.001	Ref.				Ref.					
Survey method	Online	0.048	1.13	0.93	1.36	0.219	0.86	0.70	1.05	0.129	0.019	1.26	0.98	1.62	0.070	1.74	1.10	2.77	0.019		
Study area	Wales	0.001	1.02	0.87	1.19	0.798	0.76	0.65	0.89	0.001	0.728	0.94	0.77	1.17	0.595	0.87	0.56	1.35	0.530		

AOR = adjusted odds ratio; CI = confidence interval (95%); Ref = reference category. *Reference category for dependent variables was none. Reference categories for gender, ethnicity, survey method and study area were female, other, telephone and Bolton Local Authority respectively. [#]Requiring professional medical attention. Full wording of all questions is provided in Supplementary file S1.

Table S4. Multinomial logistic regression analysis of ACE types, socio-demographics, survey method and associations with car crash and burns

		Car crash									Burn [#]								
		Once					2+ times				Once					2+ times			
		Reference category*	AOR	Low CI	High CI	P	AOR	Low CI	High CI	P	Reference category*	AOR	Low CI	High CI	P	AOR	Low CI	High CI	P
ACE type	Physical abuse	0.051	1.05	0.81	1.35	0.728	1.33	1.05	1.69	0.019	0.419	1.06	0.77	1.46	0.719	1.51	0.82	2.79	0.191
	Emotional abuse	0.012	1.06	0.85	1.32	0.605	1.37	1.11	1.69	0.004	0.157	0.83	0.62	1.12	0.218	0.62	0.34	1.15	0.129
	Sexual abuse	0.040	1.19	0.90	1.57	0.223	1.42	1.08	1.86	0.011	0.023	1.38	0.99	1.92	0.061	2.02	1.11	3.67	0.021
	Divorce	0.007	1.36	1.12	1.66	0.002	1.22	0.99	1.49	0.058	0.318	1.10	0.85	1.43	0.487	0.70	0.41	1.21	0.203
	Domestic violence	0.046	1.21	0.95	1.54	0.117	0.87	0.68	1.11	0.267	0.063	1.33	0.98	1.81	0.070	1.67	0.92	3.02	0.093
	Mental illness	0.189	0.85	0.67	1.07	0.167	1.07	0.85	1.34	0.579	0.016	1.47	1.11	1.94	0.007	1.50	0.86	2.63	0.157
	Alcohol abuse	0.814	1.08	0.83	1.41	0.564	1.07	0.82	1.39	0.621	0.429	1.08	0.77	1.50	0.661	1.49	0.81	2.73	0.202
	Drug abuse	0.778	1.12	0.71	1.78	0.629	1.17	0.75	1.83	0.497	0.346	0.78	0.45	1.36	0.386	1.55	0.69	3.49	0.287
	Incarceration	0.034	1.17	0.67	2.03	0.576	1.89	1.15	3.12	0.013	0.008	1.99	1.15	3.44	0.014	2.64	1.18	5.90	0.018
Gender	Male	<0.001	1.45	1.24	1.69	<0.001	3.07	2.64	3.58	<0.001	0.001	1.21	0.98	1.49	0.075	2.13	1.37	3.30	0.001
Age	18-29	<0.001	Ref.				Ref.				0.111	Ref.				Ref.			
	30-39		1.45	1.06	2.00	0.022	2.99	2.05	4.38	<0.001		1.01	0.65	1.57	0.961	0.89	0.42	1.90	0.762
	40-49		1.69	1.24	2.30	0.001	5.36	3.75	7.65	<0.001		1.02	0.67	1.54	0.928	0.70	0.33	1.48	0.347
	50-59		1.45	1.08	1.94	0.014	3.85	2.71	5.45	<0.001		1.06	0.71	1.58	0.782	0.69	0.33	1.44	0.316
	60-69		1.41	1.05	1.91	0.024	2.94	2.05	4.20	<0.001		1.09	0.72	1.65	0.684	0.47	0.21	1.08	0.077
	70+		1.04	0.78	1.40	0.780	1.46	1.02	2.10	0.041		0.72	0.47	1.10	0.131	0.35	0.15	0.84	0.018
Ethnicity	White	0.411	1.05	0.76	1.45	0.775	1.25	0.90	1.74	0.191	0.486	1.24	0.78	1.95	0.364	1.41	0.61	3.30	0.423
Deprivation quintile	1 - most		0.71	0.57	0.90	0.004	0.51	0.40	0.64	<0.001		1.53	1.11	2.11	0.009	2.60	1.29	5.26	0.008
	2		0.83	0.65	1.05	0.113	0.68	0.54	0.87	0.002		1.14	0.81	1.62	0.451	0.78	0.32	1.91	0.584
	3		0.79	0.62	1.00	0.050	0.76	0.60	0.95	0.019		1.41	1.01	1.97	0.046	1.98	0.93	4.22	0.077
	4		1.03	0.82	1.30	0.777	0.86	0.68	1.08	0.197		1.09	0.77	1.53	0.634	0.96	0.41	2.25	0.923
	5 - least	<0.001	Ref.				Ref.				0.001	Ref.				Ref.			
Survey method	Online	0.027	1.13	0.93	1.38	0.220	0.83	0.67	1.02	0.080	0.134	1.21	0.92	1.58	0.170	1.52	0.92	2.52	0.106
Study area	Wales	0.001	0.99	0.85	1.16	0.919	0.75	0.64	0.88	<0.001	0.841	0.97	0.78	1.21	0.810	0.88	0.56	1.39	0.580

AOR = adjusted odds ratio; CI = confidence interval (95%); Ref = reference category. *Reference category for dependant variables was none. Reference categories for gender, ethnicity, survey method and study area were female, other, telephone and Bolton Local Authority respectively. [#]Requiring professional medical attention. Full wording of all questions is provided in Supplementary file S1.