Table S1: Sociodemographic and injury characteristics of patients excluded due to missing intention of injury or key explanatory variables

Variable	Included	Excluded			
	Study sample N=7,605	Missing intention of injury (outcome)		Missing key explanatory variables [a]	
		n=232	p value [b]	n=44	p value [c]
Sex, n (%)			0.100		<0.001[*]
Male	5,488 (72.2)	156 (67.2)		43 (97.7)	
Female	2,117 (27.8)	76 (32.8)		1 (2.3)	
Age			0.021[*]		0.605
15 – 24, n (%)	1,805 (23.7)	63 (27.2)		12 (27.3)	
25 – 34, n (%)	2,590 (34.1)	71 (30.6)		13 (29.5)	
35 – 44, n (%)	1,649 (21.7)	43 (18.5)		12 (27.3)	
45 – 54, n (%)	805 (10.6)	38 (16.4)		2 (4.5)	
55+, n (%)	756 (9.9)	17 (7.3)		5 (11.4)	
Hospital, n (%)			<0.001[*]		0.001[*]
LHD	3,250 (42.7)	86 (37.1)		32 (72.7)	
LRH	2,866 (37.7)	91 (39.2)		9 (20.5)	
ERH	1,061 (14.0)	54 (23.3)		3 (6.8)	
CHP	428 (5.6)	1 (0.4)		0 (0.0)	
Injury severity score [d]			0.183		<0.001[*]
Median [IQR]	8 [2–13]	8 [1–22]		23.5 [8.5–37.5]	
Overall hospital mortality, n (%)			<0.001[*]		<0.001[*]
Died	153 (2.0)	41 (17.7) [e]		22 (50.0) [e]	
Intention of injury, n (%)			<0.001[*]		<0.001[*]
IPVRI	1,366 (18.0)	-		22 (50.0)	
Unintentional	6,239 (82.0)	-		22 (50.0)	
Missing	-	232 (100.0)		-	

[*] Significant at the p<0.05 level

[a] Excluded due to missing data for all of the following: education level, employment status, and household SES cluster

[b] Comparison between the included sample (N=7,605) and those excluded due to missing intention of injury (n=232)

[c] Comparison between the included sample (N=7,605) and those excluded due to missing all SDH explanatory variables (n=44)

[d] Injury severity score (ISS) ranges from 1–75, with higher scores indicating more severe injury.

[e] Overall hospital mortality was missing for 7 of those in the missing intentional injury group, and 3 of those in the missing key explanatory variables group

Abbreviations: Social determinant of health (SDH), Laquintinie Hospital of Douala (LHD), Limbe Regional Hospital (LRH), Edea Regional Hospital (ERH), Catholic Hospital Pouma (CHP), interquartile range (IQR), interpersonal violence related injury (IPVRI)

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Table S2: Adjusted logistic regression models estimating associations with interpersonal violence related injury among male patients who sought hospital-level care in Cameroon between 2017-2020 (n=5,488)

Variables	Adjusted model 1, education level		Adjusted model 2, employment status		Adjusted model 3, household SES cluster		Adjusted model 4, alcohol use		Adjusted model 5, all three SDH		Adjusted model, full [a]	
	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value
Education level												
Primary or no formal	1.23 [0.95–1.60]	0.117	-	-	-	-	-	-	1.22 [0.92–1.63]	0.167	1.22 [0.91–1.64]	0.174
Secondary/high school	1.00 [0.78–1.29]	0.990	-	-	-	-	-	-	1.08 [0.83–1.41]	0.574	1.07 [0.82–1.40]	0.623
Tertiary/university	Ref.	Ref.	-	-	-	-	-	-	Ref.	Ref.	Ref.	Ref.
Missing data	1.35 [0.97–1.89]	0.076	-	-	-	-	-	-	1.24 [0.87–1.78]	0.230	1.26 [0.88–1.80]	0.212
Employment status												
Employed [b]	-	-	Ref.	Ref.	-	-	-	-	Ref.	Ref.	Ref.	Ref.
Unemployed [c]	-	-	2.52 [2.03–3.13]	<0.001*	-	-	-	-	2.48 [1.99–3.10]	<0.001*	2.44 [1.95–3.06]	<0.001*
Retired	-	-	0.70 [0.34–1.43]	0.330	-	-	-	-	0.75 [0.36–1.54]	0.430	0.75 [0.36–1.55]	0.438
Student or apprentice	-	-	1.16 [0.90–1.48]	0.246	-	-	-	-	1.29 [0.99–1.68]	0.060	1.30 [0.99–1.70]	0.055
Missing data	-	-	2.05 [1.34–3.16]	0.001*	-	-	-	-	1.87 [1.20–2.90]	0.005*	1.88 [1.20–2.94]	0.005*
Household SES cluster												
Rural [d]	-	-	-	-	1.48 [1.07–2.04]	0.017*	-	-	1.45 [1.05–2.02]	0.026*	1.45 [1.04–2.03]	0.028*
Urban poor	-	-	-	-	2.59 [1.62–4.13]	<0.001*	-	-	2.08 [1.28–3.39]	0.003*	2.08 [1.27–3.41]	0.004*
Urban MC homeowners	-	-	-	-	1.17 [0.90–1.52]	0.246	-	-	1.09 [0.83–1.44]	0.518	1.10 [0.84–1.45]	0.489
Urban MC tenants	-	-	-	-	1.15 [0.93–1.42]	0.211	-	-	1.19 [0.96–1.49]	0.120	1.23 [0.98–1.54]	0.069
Urban wealthy	-	-	-	-	Ref.	Ref.	-	-	Ref.	Ref.	Ref.	Ref.
Missing data	-	-	-	-	1.40 [0.92–2.12]	0.113	-	-	1.33 [0.87–2.03]	0.186	1.35 [0.88–2.07]	0.166
Alcohol use [e]												
Yes	-	-	-	-	-	-	2.35 [1.93–2.85]	<0.001*	-	-	2.33 [1.91–2.83]	<0.001*
No	-	-	-	-	-	-	Ref.	Ref.	-	-	Ref.	Ref.
Unknown	-	-	-	-	-	-	1.36 [1.09–1.68]	0.006*	-	-	1.21 [0.97–1.51]	0.089
Age group												
15 – 24	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
25 – 34	0.87 [0.73–1.04]	0.118	0.93 [0.77–1.12]	0.447	0.89 [0.75–1.07]	0.216	0.84 [0.71–1.00]	0.050	0.93 [0.77–1.14]	0.499	0.88 [0.73–1.08]	0.224
35 – 44	0.71 [0.58–0.86]	0.001*	0.80 [0.64–1.00]	0.047*	0.72 [0.58–0.89]	0.002*	0.70 [0.57–0.86]	0.001*	0.81 [0.65–1.02]	0.077	0.80 [0.63–1.01]	0.057
45 – 54	0.72 [0.55–0.93]	0.012*	0.82 [0.62–1.08]	0.153	0.74 [0.57–0.97]	0.027*	0.70 [0.54–0.91]	0.007*	0.85 [0.65–1.13]	0.269	0.83 [0.63–1.10]	0.198
55+	0.39 [0.28–0.54]	<0.001*	0.48 [0.33–0.69]	<0.001*	0.40 [0.29–0.56]	<0.001*	0.39 [0.28–0.54]	<0.001*	0.49 [0.34–0.72]	<0.001*	0.50 [0.34–0.72]	<0.001*
Hospital												
LHD	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
LRH	0.46 [0.39–0.54]	<0.001*	0.51 [0.44–0.60]	<0.001*	0.48 [0.41–0.56]	<0.001*	0.54 [0.46–0.64]	<0.001*	0.52 [0.44–0.61]	<0.001*	0.59 [0.49–0.70]	<0.001*
ERH	0.49 [0.39–0.61]	<0.001*	0.50 [0.40–0.63]	<0.001*	0.45 [0.35–0.57]	<0.001*	0.51 [0.41–0.64]	<0.001*	0.48 [0.38–0.61]	<0.001*	0.51 [0.40–0.65]	<0.001*
CHP	0.15 [0.09–0.26]	<0.001*	0.16 [0.09–0.27]	<0.001*	0.13 [0.08–0.23]	<0.001*	0.11 [0.06–0.19]	<0.001*	0.16 [0.09–0.27]	<0.001*	0.12 [0.07–0.21]	<0.001*

* Significant at the p<0.05 level

[a] Results are the same as those presented in Table 3

[b] Includes trauma registry categories of self-employed, salaried worker, and any applicable free text responses were grouped

[c] Includes unemployed (unable to work) and unemployed (able to work)

[d] Rural poor and rural wealthy household SES clusters were combined due to the small sample size of rural poor

[e] "Did alcohol likely contribute to this injury?"

Abbreviations: aOR (adjusted odds ratio), CI (confidence interval), Ref. (reference), MC (middle-class), Laquintinie Hospital of Douala (LHD), Limbe Regional Hospital (LRH), Edea Regional Hospital (ERH), Catholic Hospital Pouma (CHP)

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Table S3: Adjusted logistic regression models estimating associations with interpersonal violence related injury among female patients who sought hospital-level care in Cameroon between 2017-2020 (n=2,117)

Variables	Adjusted model 1, education level		Adjusted model 2, employment status		Adjusted model 3, household SES cluster		Adjusted model 4, alcohol use		Adjusted model 5, all three SDH		Adjusted model, full [a]	
	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value	aOR [95% CI]	p value
Education level												
Primary or no formal	2.27 [1.49–3.47]	<0.001[*]	-	-	-	-	-	-	1.90 [1.18–3.04]	0.008[*]	1.78 [1.10–2.87]	0.019[*]
Secondary/high school	1.64 [1.12–2.41]	0.011[*]	-	-	-	-	-	-	1.54 [1.03–2.30]	0.036[*]	1.54 [1.03–2.32]	0.037[*]
Tertiary/university	Ref.	Ref.	-	-	-	-	-	-	Ref.	Ref.	Ref.	Ref.
Missing data	1.72 [1.00–2.98]	0.051	-	-	-	-	-	-	1.40 [0.79–2.49]	0.246	1.41 [0.79–2.52]	0.238
Employment status												
Employed [b]	-	-	Ref.	Ref.	-	-	-	-	Ref.	Ref.	Ref.	Ref.
Unemployed [c]	-	-	2.44 [1.33–4.45]	0.004[*]	-	-	-	-	2.57 [1.39–4.77]	0.003[*]	2.53 [1.35–4.72]	0.004[*]
Retired or housewife	-	-	1.44 [1.05–1.99]	0.025[*]	-	-	-	-	1.34 [0.96–1.86]	0.084	1.32 [0.95–1.85]	0.100
Student or apprentice	-	-	0.73 [0.47–1.14]	0.166	-	-	-	-	0.89 [0.55–1.43]	0.630	0.89 [0.55–1.44]	0.629
Missing data	-	-	3.36 [0.79–14.3]	0.101	-	-	-	-	3.63 [0.83–16.0]	0.088	3.89 [0.88–17.1]	0.072
Household SES cluster												
Rural [d]	-	-	-	-	1.97 [1.16–3.33]	0.011[*]	-	-	1.78 [1.05–3.03]	0.034[*]	1.60 [0.93–2.75]	0.090
Urban poor	-	-	-	-	2.14 [0.73–6.26]	0.163	-	-	2.21 [0.75–6.52]	0.150	2.39 [0.81–7.06]	0.116
Urban MC homeowners	-	-	-	-	1.24 [0.75–2.05]	0.393	-	-	1.03 [0.61–1.74]	0.901	1.07 [0.63–1.81]	0.799
Urban MC tenants	-	-	-	-	0.97 [0.69–1.36]	0.854	-	-	0.93 [0.66–1.31]	0.671	0.93 [0.65–1.32]	0.681
Urban wealthy	-	-	-	-	Ref.	Ref.	-	-	Ref.	Ref.	Ref.	Ref.
Missing data	-	-	-	-	0.79 [0.38–1.63]	0.516	-	-	0.67 [0.32–1.41]	0.293	0.71 [0.34–1.49]	0.364
Alcohol use [e]												
Yes	-	-	-	-	-	-	3.94 [2.58–6.02]	<0.001[*]	-	-	3.71 [2.41–5.72]	<0.001[*]
No	-	-	-	-	-	-	Ref.	Ref.	-	-	Ref.	Ref.
Unknown	-	-	-	-	-	-	0.69 [0.37–1.26]	0.223	-	-	0.74 [0.40–1.36]	0.329
Age group												
15 – 24	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
25 – 34	1.23 [0.89–1.69]	0.211	1.02 [0.70–1.50]	0.915	1.31 [0.94–1.83]	0.112	1.24 [0.90–1.71]	0.188	1.19 [0.79–1.80]	0.400	1.20 [0.79–1.81]	0.393
35 – 44	0.81 [0.56–1.17]	0.257	0.72 [0.47–1.13]	0.154	0.93 [0.64–1.35]	0.688	0.92 [0.64–1.33]	0.663	0.79 [0.50–1.26]	0.326	0.83 [0.52–1.32]	0.429
45 – 54	0.55 [0.34–0.89]	0.015[*]	0.49 [0.28–0.83]	0.008[*]	0.61 [0.38–0.97]	0.038[*]	0.64 [0.39–1.02]	0.062	0.51 [0.30–0.89]	0.017[*]	0.55 [0.31–0.95]	0.032[*]
55+	0.23 [0.12–0.42]	<0.001[*]	0.20 [0.10–0.38]	<0.001[*]	0.27 [0.15–0.49]	<0.001[*]	0.32 [0.17–0.58]	<0.001[*]	0.19 [0.10–0.37]	<0.001[*]	0.22 [0.11–0.43]	<0.001[*]
Hospital												
LHD	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
LRH	1.31 [0.98–1.75]	0.070	1.28 [0.96–1.70]	0.097	1.22 [0.92–1.62]	0.163	1.33 [0.99–1.78]	0.059	1.39 [1.03–1.88]	0.033[*]	1.51 [1.10–2.07]	0.011[*]
ERH	1.38 [0.95–2.02]	0.091	1.35 [0.92–1.97]	0.121	1.08 [0.70–1.65]	0.734	1.48 [1.00–2.17]	0.047[*]	1.08 [0.70–1.65]	0.740	1.17 [0.76–1.82]	0.473
CHP	0.53 [0.22–1.25]	0.145	0.40 [0.17–0.96]	0.039[*]	0.34 [0.14–0.83]	0.018[*]	0.35 [0.15–0.84]	0.019[*]	0.34 [0.14–0.86]	0.023[*]	0.26 [0.10–0.69]	0.006[*]

[*] Significant at the p<0.05 level

[a] Results are the same as those presented in Table 3

[b] Includes trauma registry categories of self-employed, salaried worker, and any applicable free text responses were grouped

[c] Includes unemployed (unable to work) and unemployed (able to work)

[d] Rural poor and rural wealthy household SES clusters were combined due to the small sample size of rural poor

[e] "Did alcohol likely contribute to this injury?"

Abbreviations: aOR (adjusted odds ratio), CI (confidence interval), Ref. (reference), MC (middle-class), Laquintinie Hospital of Douala (LHD), Limbe Regional Hospital (LRH), Edea Regional Hospital (ERH), Catholic Hospital Pouma (CHP)