

Table S1 Code for location in the master code system

	Code*
Residence	0101 one or two stories 0102 three or more stories
Public access facilities	
Cinemas/Theaters	0201 cinemas and variety theater 0222 TV studio et al
Commercial facilities	0203 café and night club 0205 adult entertainment 0206 food court, restaurant 0207 department store, shopping mall 0208 market place, exhibition hall 0224 underground shopping mall
Medical facilities	0210 hospital 0211 clinics
Schools	0213 kindergarten, nursery school 0214 school for the impaired 0215 school including university 0216 specialized training college
Traffic facilities	0219 station, train 0220 airport 0223 parking facilities
Entertainment facilities	0204 gaming center, bowling alley 0225 sports stadium
Religious site	0221 temple, church
Bathhouses	0218 public bath, sauna
Nursing homes	0212 nursing homes, elderly facility
Hotels	0209 accommodations
Public facilities and others	0202 town hall, community hall 0217 library, museum 0226 government agency building 0227 zoo, amusement park
Workplaces	
Factory	0301 factory 0302 indoor workshop without factory 0303 outdoor workshop 0304 indoor construction site 0305 outdoor construction site
Offices and others	0306 - 0314 various types of office workplaces
Road	0401 - 0407 various sites on the roads
Other location	
Bare land	0501 park, garden 0502 public square 0503 vacant land

Table S1 (continued)

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	Code*
Wilderness areas	0505 mountain, forest 0506 fields
River/Pond	0504 river, pond
Railway territory	0508 railway territory
Seacoast	0507 seacoast

Code shown is examples. Residence and public access facilities have more detailed code tables.

Table S2 Results of logistic regression for cardiac arrest in patients from seacoast

Variable	Univariate analysis		Multivariate analysis	
	Odds ratio	95% Confidence interval	Odds ratio	95% Confidence interval
Sex (male)	1.08	0.94-1.25	0.97	0.83-1.14
Age (year)*	1.04	1.03-1.04	1.04	1.03-1.04
Response Time (min)*	1.02	1.02-1.03	1.02	1.01-1.02
Season (summer)*	0.58	0.51-0.66	0.85	0.73-0.98
Day of the week (weekend)*	0.65	0.58-0.74	0.83	0.72-0.95
Cause (drowning)*	11.48	10.12-13.03	10.30	9.00-11.78

* Represent significant $P < 0.05$.

Table S3 Results of logistic regression for location (seacoast vs. non-seacoast) in patients suffered from external cause

Variable	Univariate analysis		Multivariate analysis	
	Odds ratio	95% Confidence interval	Odds ratio	95% Confidence interval
Sex (male)	3.24	3.09-3.38	2.65	2.53-2.77
Age (year)	0.98	0.98-0.98	0.98	0.98-0.98
Response Time (min)	1.01	1.01-1.01	1.01	1.01-1.01
Season (summer)	2.10	2.02-2.18	2.06	1.98-2.14
Day of the week (weekend)	1.91	1.84-1.98	1.80	1.73-1.87
Cause (drowning)	42.43	40.39-44.57	50.76	48.22-53.44

Table S4 Comparison of patients of matched pairs (seacoast *vs.* non-seacoast) in patients suffered from external cause

Patient characteristics	Seacoast (N=9,918)	Non-seacoast (N=9,918)	SMD	P
Sex			0.00	0.87
Male	7,537 (76.0)	7,527 (75.9)		
Female	2,381 (24.0)	2,391 (24.1)		
Age (years), median/IQR	49 (29–67)	49 (28–67)	0.01	0.49
Response time (min), median/IQR	14 (10–19)	13 (10–19)	0.07	<0.001
Season			0.01	0.36
Summer	4,231 (42.7)	4,167 (42.0)		
Other seasons	5,687 (57.3)	5,751 (58.0)		
Day of the week			0.01	0.71
Weekday	5,620 (56.7)	5,594 (56.4)		
Weekend	4,298 (43.3)	4,324 (43.6)		
Cause			0.02	0.10
Drowning	1,321 (13.3)	1,244 (12.5)		
Others	8,597 (86.7)	8,674 (87.5)		

Data are presented as n (%) or median (interquartile range). Percentages represent the proportion of each subgroup within the seacoast or non-seacoast.