

Clinical and Echocardiographic Predictors for the Presence of Late Gadolinium Enhancement on Cardiac Magnetic Resonance Imaging in Patients with Carbon Monoxide Poisoning

Supplementary materials

Supplementary Table S1. Predictors of LGE positivity using univariate logistic regression

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Variables	Univariate		
	Standardized β	OR (95% CI)	p-value
Sex			
Male		Ref.	
Female	-0.077	0.75 (0.38–1.47)	0.405
Age			
≤ 45		Ref.	
> 45	-0.098	0.7 (0.35–1.38)	0.299
Intentionality			
No		Ref.	
Yes	0.002	1.01 (0.52–1.95)	0.981
Source			
Charcoal		Ref.	
Gas and oil	0.093	1.03 (0.42–2.51)	0.948
Fire	-0.133	0.55 (0.15–1.99)	0.359
Maximal estimated CO exposure times (hours)			
> 5		Ref.	
≤ 5	-0.169	0.54 (0.28–1.05)	0.069
Hypertension			
No		Ref.	
Yes	-0.010	0.96 (0.45–2.05)	0.916
Diabetes mellitus			
No		Ref.	
Yes	-0.030	0.83 (0.28–2.48)	0.743
Hyperlipidemia			
No		Ref.	
Yes	-0.109	0.43 (0.11–1.67)	0.223
Time from rescue to HBO₂ (h)			
≤ 4		Ref.	
> 4	0.177	2.418 (1.001–5.841)	0.0497
Glasgow Coma Scale			
> 6		Ref.	
≤ 6	-0.105	0.62 (0.28–1.38)	0.244

Loss of consciousness				
No			Ref.	
Yes	0.017	1.12 (0.35–3.59)		0.855
Shock				
No			Ref.	
Yes	0.010	1.06 (0.4–2.83)		0.911
Laboratory findings				
COHb (%)				
≤30			Ref.	
>30	-0.101	0.69 (0.35–1.34)		0.271
Creatinine (mg/dL)				
>0.9			Ref.	
≤0.9	-0.155	0.57 (0.29–1.11)		0.096
Creatine kinase (U/L)				
≤500			Ref.	
>500	0.190	1.99 (1.02–3.91)		0.045
Initial troponin I (pg/mL)				
>480			Ref.	
≤480	-0.196	0.49 (0.25–0.96)		0.037
Peak troponin I (pg/mL)				
>990			Ref.	
≤990	-0.184	0.514 (0.264–0.999)		0.0496
BNP (pg/mL)				
>95			Ref.	
≤95	-0.224	0.43 (0.20–0.90)		0.024
Bicarbonate (mmol/L)				
>20			Ref.	
≤20	0.203	2.08 (1.07–4.07)		0.032
Lactate (mg/dL)				
≤2			Ref.	
>2	0.231	2.56 (1.24–5.29)		0.011
LVEF (%)				
>63			Ref.	
≤63	0.197	2.23 (1.08–4.6)		0.030
LV GLS (%)				
≤-16			Ref.	
>-16	0.322	3.31 (1.57–7.02)		0.002

LVEDV (mL)			
≤103		Ref.	
>103	0.114	1.52 (0.78–2.95)	0.222
LVESV (mL)			
≤43		Ref.	
>43	0.234	2.34 (1.18–4.61)	0.014
LVEDD (mm)			
≤49		Ref.	
>49	0.124	1.59 (0.81–3.09)	0.176
LVESD (mm)			
≤29		Ref.	
>29	0.207	3.21 (1.17–8.84)	0.024
SWT (mm)			
>7		Ref.	
≤7	0.104	1.5 (0.73–3.07)	0.274
PWT (mm)			
≤7		Ref.	
>7	0.063	1.28 (0.64–2.56)	0.489
LVMI (g/m²)			
≤70		Ref.	
>70	0.191	2.14 (1.05–4.35)	0.036
LAVI (mL/m²)			
≤19		Ref.	
>19	0.171	2.43 (0.97–6.05)	0.057
Septal e' (cm/s)			
≤4		Ref.	
>4	0.088	1.58 (0.63–3.92)	0.328
E/e' (ratio)			
>7		Ref.	
≤7	0.152	1.81 (0.86–3.81)	0.119
RVSP (mmHg)			
≤27		Ref.	
>27	0.108	1.49 (0.75–2.97)	0.255

Abbreviations: OR = odds ratio, CI = confidence interval, CO = carbon monoxide, HBO₂ = hyperbaric oxygen therapy, COHb = carboxyhemoglobin, BNP = β -type natriuretic peptide, LVEF = left ventricular ejection fraction, LV GLS = left ventricular global longitudinal strain, LVEDV = left ventricular end-diastolic volume, LVESV = left ventricular end-systolic volume, LVEDD = left ventricular end-diastolic dimension,

LVEDD = left ventricular end-systolic dimension, SWT = septal wall thickness, PWT = posterior wall thickness, LVMI = left ventricular mass index, LAVI = left atrial volume index, Septal e' = septal early mitral tissue velocity, RVSP = right ventricular systolic pressure, LGE = late gadolinium enhancement.