

**Supplementary Table 1. Causes of rhabdomyolysis and the prevalence of AKI**

Cause of rhabdomyolysis	Total patients	Prevalence of AKI	No bicarbonate group (n = 1,584)			Bicarbonate group (n = 2,493)		
			no AKI (n = 854)	AKI (n = 730)	p-value	No AKI (n = 519)	AKI (n = 1,974)	p-value
Surgical	2,243	1,489 (66.2)	491 (56.5)	378 (43.5)		263 (19.1)	1,111 (80.9)	
Postsurgical	1,766 (43.3)	1,176 (66.6)	388 (45.4)	231 (31.6)	<0.001	202 (38.9)	945 (47.9)	<0.001
Crush or compression	470 (11.5)	309 (65.7)	102 (11.9)	146 (20.0)	<0.001	59 (11.4)	163 (8.3)	0.03
Burn	7 (0.2)	4 (57.1)	1 (0.1)	1 (0.1)	0.99	2 (0.4)	3 (0.2)	0.61
Medical	1,834	1,215 (66.2)	363 (50.8)	352 (49.2)		256 (22.9)	863 (77.1)	
Cardiac arrest or shock	691 (16.9)	620 (89.7)	42 (4.9)	109 (14.9)	<0.001	29 (5.6)	511 (25.9)	<0.001
Myositis or infection	273 (6.7)	132 (48.4)	109 (12.8)	65 (8.9)	0.02	32 (6.2)	67 (3.4)	0.006
Seizure	195 (4.8)	113 (57.9)	51 (6.0)	42 (5.8)	0.94	31 (6.0)	71 (3.6)	0.02
Cerebrovascular disease	159 (3.9)	102 (64.2)	47 (6.2)	63 (9.9)	0.01	10 (2.2)	39 (2.3)	<0.001
Exercise or military training	130 (3.2)	30 (23.1)	19 (2.2)	5 (0.7)	0.02	81 (15.6)	25 (1.3)	<0.001
Heat stroke or malignant hyperthermia/malignant neuroleptic syndrome	121 (3.0)	54 (44.6)	34 (4.0)	22 (3.0)	0.37	33 (6.4)	32 (1.6)	<0.001
Use of statins or fibrates	57 (1.4)	27 (47.4)	20 (2.3)	9 (1.2)	0.15	10 (1.9)	18 (0.9)	0.09
Alcohol	52 (1.3)	34 (65.4)	9 (1.1)	8 (1.1)	0.99	9 (1.7)	26 (1.3)	0.61
Other drugs	50 (1.23)	33 (66.0)	7 (0.8)	6 (0.8)	0.99	10 (1.9)	27 (1.4)	0.46
Idiopathic disease	49 (1.2)	34 (69.4)	11 (1.3)	9 (1.2)	0.99	4 (0.8)	25 (1.3)	0.48
Metabolic disease	33 (0.81)	22 (66.7)	6 (0.7)	7 (1.0)	0.78	5 (1.0)	15 (0.8)	0.85
Hypothermia	12 (0.3)	8 (66.7)	3 (0.4)	3 (0.4)	0.99	1 (0.2)	5 (0.3)	<0.001
Immobilization	11 (0.3)	6 (54.5)	4 (0.5)	4 (0.5)	0.99	1 (0.2)	2 (0.1)	<0.001
Genetic	1 (0.02)	0 (0)	1 (0.1)	0 (0.0)	0.99	0 (0)	0 (0)	NA

Data are expressed number only or number (%).

AKI, acute kidney injury, NA, not applicable.