

Table S1. Predictor Characteristics in population B

Predictors	Overall, n=30043	No Delirium, n=26075	Delirium, n=3968	P value	% Missing
Predisposing risk factors					
Age, year	77.0 (66.0-86.0)	76.0 (65.0-85.0)	84.0 (75.0-89.0)	<0.001	0.0
Men	16883 (56.2)	14849 (56.9)	2034 (51.3)	<0.001	0.0
Body mass index, kg/m ²	21.8 (19.3-24.5)	22.0 (19.5-24.7)	20.5 (18.1-23.2)	<0.001	1.8
Take of benzodiazepine medications	649 (2.2)	503 (2.0)	146 (3.8)	<0.001	3.0
Take of opioid medications	601 (2.1)	434 (1.7)	167 (4.3)	<0.001	3.0
Take of steroid medications	1099 (3.8)	873 (3.5)	226 (5.8)	<0.001	3.0
Dementia	4425 (15.2)	3041 (12.0)	1384 (35.6)	<0.001	3.0
Brain tissue disorder	5505 (18.9)	4497 (17.8)	1008 (25.9)	<0.001	3.0
Heavy drinker	755 (2.6)	586 (2.3)	169 (4.3)	<0.001	3.0
History of delirium	1022 (3.5)	580 (2.3)	442 (11.4)	<0.001	3.0
Use of ambulance	19172 (63.8)	15932 (61.1)	3240 (81.7)	<0.001	0.0
Room at hospitalization				<0.001	0.0
Bay of general ward	4192 (14.0)	3881 (14.9)	311 (7.8)		
Intensive care unit	11968 (39.8)	9420 (36.1)	2548 (64.2)		
Private room of general ward	13883 (46.2)	12774 (49.0)	1109 (27.9)		
Schedule of treatment				<0.001	0.0
Catheterization	1866 (6.2)	1622 (6.2)	244 (6.1)		
Endoscopic treatment	2718 (9.0)	2491 (9.6)	227 (5.7)		
Preserved treatment	17264 (57.5)	15187 (58.2)	2077 (52.3)		
Surgery	8195 (27.3)	6775 (26.0)	1420 (35.8)		
Vital sign					
Systolic blood pressure, mmHg	135 (117-156)	136 (117-156)	133 (113-155)	<0.001	0.2
Diastolic blood pressure, mmHg	78 (66-90)	78 (67-90)	76 (64-89)	<0.001	0.2

Pulse rate, times/minute	82 (70-96)	82 (70-95)	85 (73-100)	<0.001	1.9
SpO ₂ , %	97 (95-98)	97 (95-98)	96 (95-98)	<0.001	1.1
Respiratory rate, times/minute	18 (16-21)	18 (16-21)	19 (16-23)	<0.001	0.9
Body temperature, °C	36.7 (36.4-37.2)	36.7 (36.4-37.2)	36.8 (36.4-37.3)	<0.001	0.1
Glasgow Coma Scale	15 (14-15)	15 (14-15)	14 (12-15)	<0.001	37.1
Laboratory data					
Sodium, mmol/L	139 (137-140)	139 (137-141)	139 (136-141)	<0.001	0.4
Potassium, mmol/L	4.03 (3.69-4.40)	4.03 (3.70-4.39)	4.03 (3.62-4.45)	0.26	0.4
Chloride, mmol/L	104 (101-106)	104 (101-106)	103 (100-106)	<0.001	0.4
Total protein, g/dL	6.8 (6.3-7.2)	6.8 (6.3-7.2)	6.6 (6.0-7.1)	<0.001	0.8
Albumin, g/dL	3.6 (3.2-4.1)	3.7 (3.2-4.1)	3.4 (2.9-3.8)	<0.001	0.8
Albumin/globulin ratio	1.19 (0.97-1.42)	1.21 (0.97-1.43)	1.09 (0.88-1.31)	<0.001	0.8
Blood urea nitrogen, mg/dL	18.7 (14.0-27.0)	18.3 (13.8-26.2)	21.8 (15.9-32.9)	<0.001	0.4
Creatinine, mg/dL	0.87 (0.68-1.22)	0.87 (0.68-1.20)	0.95 (0.70-1.41)	<0.001	0.4
Aspartate aminotransferase, IU/L	24 (18-36)	24 (18-35)	25 (19-39)	<0.001	0.4
Alanine transaminase, IU/L	18 (12-30)	18 (12-30)	17 (11-27)	<0.001	0.4
γ-glutamyltranspeptidase, IU/L	28 (16-62)	29 (17-63)	24 (14-49)	<0.001	7.2
Lactate dehydrogenase, IU/L	216 (178-271)	213 (176-266)	236 (195-299)	<0.001	0.6
Total bilirubin, mg/dL	0.80 (0.60-1.10)	0.80 (0.60-1.10)	0.80 (0.60-1.10)	0.37	0.6
Glucose, mg/dL	128 (108-162)	127 (108-161)	134 (110-171)	<0.001	2.6
White blood cells, 10 ³ /μL	8.2 (6.1-11.3)	8.1 (6.1-11.1)	8.8 (6.4-12.3)	<0.001	0.4
Red blood cells, 10 ⁶ /μL	4.0 (3.5-4.5)	4.1 (3.5-4.6)	3.8 (3.3-4.3)	<0.001	0.4
Hemoglobin, g/dL	12.4 (10.7-13.9)	12.5 (10.8-14.0)	11.7 (10.2-13.3)	<0.001	0.4
Hematocrit, %	37.4 (32.6-41.6)	37.7 (32.9-41.8)	35.6 (31.0-40.0)	<0.001	0.4
Mean Corpuscular Volume, μm ³	92.7 (89.0-96.6)	92.6 (88.9-96.5)	93.5 (89.8-97.5)	<0.001	0.4
Blood platelet count, x10 ³ /μL	20 (16-25)	20 (16-25)	19 (15-24)	<0.001	0.4
C-reactive protein, mg/dL	0.64 (0.11-4.72)	0.58 (0.10-4.46)	1.25 (0.18-6.52)	<0.001	3.0
Activated partial thromboplastin time, second	30.1 (26.6-35.7)	29.9 (26.5-35.4)	31.3 (27.2-37.6)	<0.001	3.7
Prothrombin time, second	12.6 (11.6-14.2)	12.6 (11.6-14.0)	13.1 (11.9-15.3)	<0.001	3.4

Prothrombin time-international normalized ratio	1.02 (0.95-1.15)	1.02 (0.94-1.13)	1.06 (0.97-1.24)	<0.001	3.4
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Data are expressed as median (interquartile range), number (%).