

Table S1 The results of all variables for which univariate analysis was performed to identify the factors related to the “predictable death group”

Variables	Subgroup	Total (n=847)	Group A (n=232)		Group B (n=615)		P value
		n	n	%	n	%	
Age	20–69 year	328	104	31.7	224	68.3	0.03
	70 and above year	519	128	24.7	391	75.3	
Sex	Male	429	104	24.2	325	75.8	0.04
	Female	418	128	30.6	290	69.4	
Primary cancer site	Lung	146	41	28.1	105	71.9	0.84
	Stomach/esophagus	125	28	22.4	97	77.6	0.19
	Colon/rectum	186	29	30.5	66	69.5	0.47
	Liver/biliary system	70	21	30.0	49	70.0	0.68
	Pancreas	92	22	23.9	70	76.1	0.46
	Ovary/uterus	46	18	39.1	28	60.9	0.09
	Prostate/bladder/kidney/testis	67	15	22.4	52	77.6	0.39
Liver metastasis	Absent	503	128	25.5	375	74.6	0.14
	Present	344	104	30.2	240	69.8	
Bone metastasis	Absent	614	170	27.7	444	72.3	0.80
	Present	380	62	26.6	171	73.4	
Lung metastasis	Absent	515	128	24.9	387	75.2	0.05
	Present	331	104	31.4	227	68.6	
Cardiovascular comorbidity	Absent	796	219	27.5	577	72.5	0.87
	Present	51	13	25.5	38	74.5	
Cerebrovascular comorbidity	Absent	780	216	27.7	564	72.3	0.57
	Present	67	16	23.9	51	76.1	
Kidney comorbidity	Absent	832	229	27.5	603	72.5	0.77
	Present	15	3	20.0	12	80.0	
Diabetes comorbidity	Absent	735	201	27.4	534	72.7	1.00
	Present	112	31	27.7	81	72.3	
Dementia comorbidity	Absent	775	217	28.0	558	72.0	0.22
	Present	72	15	20.8	57	79.2	
Surgery	Not performed	482	129	26.8	353	73.2	0.64
	Performed	365	103	28.2	262	71.8	
Chemotherapy	Not receive	312	78	25.0	234	75.0	0.12
	Receive (not within 1 month)	461	139	30.2	322	69.9	
	Receive (within 1 month)	73	15	20.6	58	79.5	
Radiation therapy	Not receive	842	231	27.4	611	72.6	1.00
	Receive	5	1	20.0	4	80.0	

Table S1 (continued)

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Variables	Subgroup	Total (n=847)		Group A (n=232)		Group B (n=615)		P value
		n		n	%	n	%	
Oxygen administration	Absent	327		63	19.3	264	80.7	<0.01
	Present	507		156	30.8	351	69.2	
Opioid administration	Absent	188		38	20.2	150	79.8	0.04
	Present	646		181	28.0	465	72.0	
Steroid administration	Absent	568		144	25.4	424	74.7	0.40
	Present	266		75	28.2	191	71.8	
Antipsychotics administration	Absent	476		132	27.7	344	72.3	0.30
	Present	358		87	24.3	271	75.7	
Anxiolytic administration	Absent	599		147	24.5	452	75.5	0.08
	Present	235		72	30.6	163	69.4	
Administration of airway secretion inhibitors	Absent	790		208	26.3	582	73.7	1.00
	Present	44		11	25.0	33	75.0	
Continuous deep sedation	No	802		210	26.2	592	73.8	0.84
	Yes	32		9	28.1	23	71.9	
Infusion therapy	Absent	331		102	30.8	229	69.2	0.02
	Present	503		117	23.3	386	76.7	
Richmond agitation sedation scale score	From -5 to -2	692		187	27.0	505	73.0	0.21
	From -1 to 5	141		31	22.0	110	78.0	
Decreased response to verbal stimuli	No	648		150	23.1	498	76.9	<0.01
	Yes	186		69	37.1	117	62.9	
Decreased response to visual stimuli	No	549		116	21.1	433	78.9	<0.01
	Yes	285		103	36.1	182	63.9	
Peripheral cyanosis	Absent	638		142	22.3	496	77.7	<0.01
	Present	196		77	39.3	119	60.7	
Pulselessness of radial artery	Absent	769		184	23.9	585	76.0	<0.01
	Present	65		35	53.9	30	46.1	
Respiration with mandibular movement	Absent	784		186	23.7	598	76.3	<0.01
	Present	50		33	66.0	17	34.0	
Hyperextension of neck	Absent	789		200	25.4	589	74.6	0.02
	Present	45		19	42.2	26	57.8	
Inability to close eyelids	Absent	773		196	25.4	577	74.6	0.04
	Present	61		23	37.7	38	62.3	
Grunting of vocal cords	Absent	793		201	25.4	592	74.6	0.02
	Present	41		18	43.9	23	56.1	

Table S1 (continued)

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Variables	Subgroup	Total (n=847)	Group A (n=232)		Group B (n=615)		P value
		n	n	%	n	%	
Urine output over last 12 hours	200 mL and above	630	132	21.0	498	79.0	<0.01
	200 mL or less	204	87	42.7	117	57.3	
Apnea	Absent	707	185	26.2	522	73.8	0.91
	Present	127	34	26.8	93	73.2	
Cheyne-Stokes breathing	Absent	781	201	25.7	580	74.3	0.20
	Present	53	18	34.0	35	66.0	
Body temperature	Lower than 37.5 degrees	568	154	27.1	414	72.9	0.08
	Above 37.5 degrees	206	43	20.9	163	79.1	
SpO2	90% and above	92	48	52.2	44	47.8	<0.01
	89% or less	707	158	22.4	549	77.6	
Respiratory rate	24 times or less per minute	689	173	25.1	516	74.9	0.06
	25 times or more per minute	58	21	36.2	37	63.8	
Pain	IPOS (from 0 to 1)	534	129	24.2	405	75.8	0.07
	IPOS (from 2 to 4)	300	90	30.0	210	70.0	
Dyspnea	IPOS (from 0 to 1)	493	115	23.3	378	76.7	0.02
	IPOS (from 2 to 4)	341	104	30.5	237	69.5	
Fatigue	IPOS (from 0 to 1)	434	115	26.5	319	73.5	0.87
	IPOS (from 2 to 4)	400	104	26.0	296	74.0	
Delirium	Absent	398	111	27.9	287	72.1	0.35
	Present	436	108	24.8	328	75.2	
Edema	No	330	78	23.6	252	76.4	0.17
	Yes	504	141	28.0	363	72.0	

Group A: patients whose physicians answered “not surprised” and actually died in the next 1 day. We defined group A as “predictable death group”; group B: patients whose physicians answered “not surprised” and did not actually die in the next 1 day. SpO2, saturation of percutaneous oxygen; IPOS, integrated palliative care outcome scale.