

Appendix H: Descriptive Statistics

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¹indicates one-time measurements per patient.
²indicates multiple measurements per patient (feature).
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²indicates multiple measurements per patient (feature).
¹indicates one-time measurements per patient.
²indicates multiple measurements per patient (feature).

Table 1 Descriptive Statistics

	count	mean	std	min	25%	50%	75%	max
¹ age in years	4,175	54.0	16.11	18.0	43.0	55.0	67.0	116.0
¹ already intubated before anaesthesia	4,175	0.08	0.26	0.0	0.0	0.0	0.0	1.0
¹ ASA class	4,175	2.64	0.74	1.0	2.0	3.0	3.0	5.0
¹ BMI in kg/m ²	4,175	25.06	4.39	14.51	22.22	24.49	27.27	58.44
¹ pre-operative creatinine in mg/dL	4,175	0.95	0.36	0.2	0.8	0.9	1.0	9.3
¹ initially measured p/F ratio	4,175	462.16	100.07	300.0	392.06	459.19	518.33	1534.46
¹ incision to closure time in min	4,175	245.25	102.59	13.0	177.38	235.0	300.25	1194.25
¹ postoperative (in-hospital) length of stay in days	4,175	11.44	10.92	1.0	6.0	7.0	12.0	175.0
¹ mechanical ventilation time in min	4,175	356.58	118.53	58.98	277.12	347.0	423.75	1382.0
¹ no extubation after surgery	4,175	0.22	0.42	0.0	0.0	0.0	0.0	1.0
¹ sex (0=female)	4,175	0.44	0.5	0.0	0.0	0.0	1.0	1.0
² CO ₂ in mmHg	14,495	34.75	3.09	4.2	33.0	35.0	36.99	57.0
² static pulmonary compliance in ml/cm H ₂ O	14,495	47.34	10.98	4.99	40.01	46.61	53.95	217.19
² diastolic blood pressure in mmHg	14,495	59.19	9.87	14.0	53.0	58.0	64.0	222.0
² F _i O ₂	14,495	0.47	0.16	0.2	0.37	0.42	0.49	1.0
² Gadrey's <i>pa</i> O ₂ in mmHg	14,495	106.78	18.53	46.27	91.64	105.2	132.76	132.76
² heart rate in 1/min	14,495	59.22	13.3	29.0	50.0	57.0	66.0	180.0
² hemoglobin in g/dL	14,495	12.02	1.8	5.3	11.0	12.2	13.3	17.8
² mean arterial pressure in mmHg	14,495	79.11	10.21	14.0	73.0	78.0	85.0	243.0
² <i>p</i> AO ₂ in mmHg	14,495	268.29	107.98	95.25	203.4	238.18	281.52	636.84
² measured <i>pa</i> O ₂ in mmHg	14,495	204.34	86.41	32.7	152.1	183.7	223.85	626.1
² pH	14,495	7.41	0.05	6.99	7.38	7.42	7.44	7.98
² respiratory rate in 1/min	14,495	11.19	2.31	5.0	10.0	11.0	12.0	39.0
² respiratory minute volume in L	14,495	5.65	1.35	2.1	4.7	5.5	6.42	15.79
² SpO ₂ in %	14,495	98.74	1.16	81.55	98.0	99.0	100.0	100.0
² systolic blood pressure in mmHg	14,495	114.94	14.36	17.0	106.0	114.0	123.0	283.0
² temperature in °C	14,495	36.33	0.78	32.09	35.88	36.4	36.9	38.99
² measurement taken intraoperatively	14,495	0.82	0.38	0.0	1.0	1.0	1.0	1.0

Table 2 Descriptive Statistics - test data

	count	mean	std	min	25 %	50 %	75 %	max
¹ age in years	1,044	53.91	16.12	18.0	43.0	55.0	67.0	89.0
¹ already intubated before anaesthesia	1,044	0.08	0.27	0.0	0.0	0.0	0.0	1.0
¹ ASA class	1,044	2.62	0.74	1.0	2.0	3.0	3.0	5.0
¹ BMI in kg/m ²	1,044	25.16	4.45	15.62	22.31	24.44	27.34	54.69
¹ pre-operative creatinine in mg/dL	1,044	0.96	0.4	0.3	0.8	0.9	1.0	7.8
¹ initially measured p/F ratio	1,044	462.01	107.08	300.42	389.36	457.54	516.43	1,193.31
¹ incision to closure time in min	1,044	247.89	108.73	24.25	179.44	230.75	300.75	1,194.25
¹ postoperative (in-hospital) length of stay in days	1,044	11.43	12.16	1.0	6.0	7.0	12.0	175.0
¹ mechanical ventilation time in min	1,044	358.87	124.22	101.75	275.75	343.88	420.44	1,382.0
¹ no extubation after surgery	1,044	0.21	0.41	0.0	0.0	0.0	0.0	1.0
¹ sex (0=female)	1,044	0.43	0.5	0.0	0.0	0.0	1.0	1.0
² CO ₂ in mmHg	3,599	34.78	2.96	21.0	33.0	35.0	37.0	49.76
² static pulmonary compliance in ml/cm H ₂ O	3,599	47.28	10.87	7.64	40.0	46.84	54.913	126.98
² diastolic blood pressure in mmHg	3,599	59.43	10.54	18.0	53.0	68.0	64.0	222.0
² F _i O ₂	3,599	0.47	0.16	0.22	0.37	0.42	0.49	1.0
² Gadrey's <i>paO</i> ₂ in mmHg	3,599	107.17	18.59	55.95	91.64	105.2	132.76	132.76
² heart rate in 1/min	3,599	58.29	13.05	31.0	50.0	56.0	64.0	129.0
² hemoglobin in g/dL	3,599	11.97	1.82	5.5	11.0	12.2	13.2	17.2
² mean arterial pressure in mmHg	3,599	79.42	10.3	39.0	73.0	78.0	85.0	225.0
² <i>pAO</i> ₂ in mmHg	3,599	268.93	109.47	102.88	202.75	236.08	282.74	634.87
² measured <i>paO</i> ₂ in mmHg	3,599	203.25	84.76	32.7	153.0	183.0	220.0	601.7
² pH	3,599	7.42	0.05	7.2	7.39	7.42	7.45	7.98
² respiratory rate in 1/min	3,599	11.15	2.17	5.0	10.0	11.0	12.0	39.0
² respiratory minute volume in L	3,599	5.58	1.3	2.11	4.7	5.42	6.4	12.19
² SpO ₂ in %	3,599	98.76	1.14	89.0	98.0	99.0	100.0	100.0
² systolic blood pressure in mmHg	3,599	115.36	14.12	53.0	106.0	114.0	123.0	232.0
² temperature in °C	3,599	36.34	0.77	32.1	35.85	36.4	36.9	38.38
² measurement taken intraoperatively	3,599	0.82	0.38	0.0	1.0	1.0	1.0	1.0

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Table 3 Descriptive Statistics - training data

	count	mean	std	min	25 %	50 %	75 %	max
¹ age in years	3,131	54.03	16.11	18.0	43.0	55.0	66.0	116.0
¹ already intubated before anaesthesia	3,131	0.07	0.26	0.0	0.0	0.0	0.0	1.0
¹ ASA class	3,131	2.65	0.74	1.0	2.0	3.0	3.0	5.0
¹ BMI in kg/m ²	3,131	25.02	4.37	14.51	22.21	24.54	27.22	58.44
¹ pre-operative creatinine in mg/dL	3,131	0.94	0.34	0.2	0.8	0.9	1.0	9.3
¹ initially measured p/F ratio	3,131	462.21	97.64	300.0	393.46	459.74	518.76	1,534.46
¹ incision to closure time in min	3,131	244.37	100.46	13.0	176.25	236.0	300.0	923.25
¹ postoperative (in-hospital) length of stay in days	3,131	11.45	10.47	1.0	6.0	7.0	12.0	108.0
¹ mechanical ventilation time in min	3,131	355.82	116.58	58.98	277.5	348.0	424.25	1,032.0
¹ no extubation after surgery	3,131	0.23	0.42	0.0	0.0	0.0	0.0	1.0
¹ sex (0=female)	3,131	0.44	0.5	0.0	0.0	0.0	1.0	1.0
² CO ₂ in mmHg	10,896	34.74	3.13	4.2	33.0	35.0	36.99	57.0
² static pulmonary compliance in ml/cm H ₂ O	10,896	47.36	11.02	4.99	40.09	46.46	53.86	217.19
² diastolic blood pressure in mmHg	10,896	59.1	9.64	14.0	53.0	58.0	64.0	215.0
² F _i O ₂	10,896	0.47	0.16	0.2	0.37	0.42	0.48	1.0
² Gadrey's <i>paO</i> ₂ in mmHg	10,896	106.65	18.5	46.27	91.64	105.2	132.76	132.76
² heart rate in 1/min	10,896	59.52	13.37	29.0	50.0	57.0	66.0	180.0
² hemoglobin in g/dL	10,896	12.04	1.8	5.3	11.0	12.2	13.3	17.8
² mean arterial pressure in mmHg	10,896	79.01	10.18	14.0	72.0	78.0	85.0	243.0
² <i>pA</i> O ₂ in mmHg	10,896	268.08	107.49	95.25	203.91	238.52	281.23	636.84
² measured <i>paO</i> ₂ in mmHg	10,896	204.7	86.95	41.3	152.0	184.0	224.9	626.1
² pH	10,896	7.41	0.05	6.99	7.38	7.42	7.44	7.92
² respiratory rate in 1/min	10,896	11.2	2.36	5.0	10.0	11.0	12.0	39.0
² respiratory minute volume in L	10,896	5.67	1.36	2.1	4.7	5.5	6.48	15.79
² SpO ₂ in %	10,896	98.73	1.17	81.55	98.0	99.0	100.0	100.0
² systolic blood pressure in mmHg	10,896	114.8	14.43	17.0	106.0	114.0	123.0	283.0
² temperature in °C	10,896	36.33	0.79	32.09	35.89	36.4	36.9	38.99
² measurement taken intraoperatively	10,896	0.82	0.38	0.0	1.0	1.0	1.0	1.0