

# COLLABORATIVE LEARNING CODEBOOK

## Form: Postoperative Information

(raw data)

**DATE CREATED 22JUN18**

**Number of Observations: 322**

**Number of Variables: 224**

**Organization of file: One Record per Patient**

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
Blind Subject ID	BLIND_ID			322(0)	53422.02(236.42)	53434.50(53214.00,53613.00)	53003.00-53831.00
Visit ID	VISITID	30	322(100.0)				
1.Days between ICU arrival and procedure	ICU_D_DAY			322(0)	0.10(1.67)	0.00(0.00,0.00)	0.00-30.00
2. Time of ICU Arrival (00:00 - 23:59)	ICU_T			321(1)			9:27-20:37
3. Time of ICU Handoff (00:00 - 23:59)	ICU_HANDOFF_T			318(4)			9:40-20:43
4. Initial Extubation within 30 minutes of ICU arrival?	EXTUB30_ICU_YN	Missing	82(25.5)				
		No	219(68.0)				
		Yes	21(6.5)				
4a. Initial Extubation Time (00:00 - 23:59)	EXTUB30_ICU_T			21(301)			9:32-18:35
5. Initial Extubation within 6 hours of ICU arrival?	EXTUB6_ICU_YN	Missing	103(32.0)				
		No	158(49.1)				
		Yes	61(18.9)				
5a. Initial Extubation Time (00:00 - 23:59)	EXTUB6_T			61(261)			0:09-23:35

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6.Days between initial extubation and procedure	EXTUB_D_DAY			158(164)	1.77(2.99)	1.00(1.00,2.00)	0.00-31.00
7. Initial Extubation Time (00:00 - 23:59)	EXTUB_T			158(164)			0:03-23:38
1. Acetaminophen	ANES_ACET	No	45(14.0)				
		Yes	277(86.0)				
2. Dexmedetomidine (Precedex) infusion	ANES_DEX	No	127(39.4)				
		Yes	195(60.6)				
2a. Cumulative Dose within the first 6 hours of arrival (mcg)	CUMU_INITIAL_DEX			194(128)	11.44(11.07)	7.91(3.03,16.20)	0.00-60.00
2b. Cumulative Dose between hour 6 and hour 48 (mcg)	CUMU_POST_DEX			194(128)	28.28(40.88)	12.60(4.25,31.60)	0.00-205.07
3. Fentanyl	ANES_FENT	No	246(76.4)				
		Yes	76(23.6)				
3a. Cumulative Dose within the first 6 hours of arrival (mcg)	CUMU_INITIAL_FENT			76(246)	14.32(20.53)	8.00(0.00,19.55)	0.00-108.00
3b. Cumulative Dose between hour 6 and hour 48 (mcg)	CUMU_POST_FENT			76(246)	80.17(164.51)	16.50(1.75,74.53)	0.00-773.63
4. Ketorolac	ANES_KET	No	291(90.4)				

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		Yes	31(9.6)				
4a. Cumulative Dose within the first 6 hours of arrival (mg)	CUMU_INITIAL_KET			31(291)	0.90(2.42)	0.00(0.00,0.00)	0.00-10.20
4b. Cumulative Dose between hour 6 and hour 48 (mg)	CUMU_POST_KET			31(291)	7.83(6.45)	6.40(3.00,10.80)	0.00-30.60
5. Local Anesthetic infusion via catheter (On-Q, Pleural catheter)	ANES_LOCAL	No	320(99.4)				
		Yes	2(0.6)				
6. Midazolam	ANES_MID	No	162(50.3)				
		Yes	160(49.7)				
6a. Intravenous/Intramuscular Administration	ANES_MID_IVIM_YN	Missing	162(50.3)				
		No	1(0.3)				
		Yes	159(49.4)				
6a1. Cumulative Dose within the first 6 hours of arrival (mg)	CUMU_INITIAL_MID_IVIM			159(163)	0.61(0.99)	0.25(0.00,0.60)	0.00-4.64
6a2. Cumulative Dose between hour 6 and hour 48 (mg)	CUMU_POST_MID_IVIM			159(163)	4.19(7.57)	1.00(0.32,3.50)	0.00-42.34
6b. Oral Administration	ANES_MID_ORAL_YN	Missing	162(50.3)				

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		No	159(49.4)				
		Yes	1(0.3)				
6b1. Cumulative Dose within the first 6 hours of arrival (mg)	CUMU_INITIAL_MID_ORAL			1(321)	5.00(.)	5.00(5.00,5.00)	5.00-5.00
6b2. Cumulative Dose between hour 6 and hour 48 (mg)	CUMU_POST_MID_ORAL			1(321)	0.00(.)	0.00(0.00,0.00)	0.00-0.00
7. Morphine	ANES_MORPH	No	10(3.1)				
		Yes	312(96.9)				
7a. Intravenous/Intramuscular Administration	ANES_MORPH_IVIM_YN	Missing	10(3.1)				
		No	2(0.6)				
		Yes	310(96.3)				
7a1. Cumulative Dose within the first 6 hours of arrival (mg)	CUMU_INITIAL_MORPH_IVIM			308(14)	1.24(6.85)	0.59(0.20,1.20)	0.00-120.00
7a2. Cumulative Dose between hour 6 and hour 48 (mg)	CUMU_POST_MORPH_IVIM			309(13)	6.45(48.06)	1.60(0.75,3.60)	0.00-840.00
7b. Oral Administration	ANES_MORPH_ORAL_YN	Missing	10(3.1)				
		No	310(96.3)				
		Yes	2(0.6)				

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7b1. Cumulative Dose within the first 6 hours of arrival (mg)	CUMU_INITIAL_MORPH_ORAL			2(320)	0.17(0.24)	0.17(0.00,0.34)	0.00-0.34
7b2. Cumulative Dose between hour 6 and hour 48 (mg)	CUMU_POST_MORPH_ORAL			2(320)	2.92(4.13)	2.92(0.00,5.84)	0.00-5.84
8. Nitroprusside	ANES_NITRO	No	217(67.4)				
		Yes	105(32.6)				
8a. Highest Dose in first 48 hours (mcg/kg/min)	ANES_NITRO_DOSE			105(217)	2.79(1.32)	3.00(1.50,4.00)	0.38-5.00
9. Esmolol infusion	ANES_ESM	No	256(79.5)				
		Yes	66(20.5)				
9a. Highest Dose in first 48 hours (mcg/kg/min)	ANES_ESM_DOSE			66(256)	250.16(162.73)	250.00(100.00,300.00)	10.00-700.00
10. Propofol (Diprivan) infusion	ANES_PROP	No	319(99.1)				
		Yes	3(0.9)				
10a. Highest Dose in first 48 hours (mg)	CUMU_POST_PROP			3(319)	50.09(49.86)	50.00(0.28,100.00)	0.28-100.00
11. Vasoactive Infusion within first 48 hours?	VASO_INFUS	No	110(34.2)				
		Yes	212(65.8)				
11a. Dobutamine infusion	VASO_DOB	Missing	110(34.2)				

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		No	212(65.8)				
11b. Dopamine infusion	VASO_DOP	Missing	110(34.2)				
		No	141(43.8)				
		Yes	71(22.0)				
11c. Epinephrine (Adrenalin) infusion	VASO_EPI	Missing	110(34.2)				
		No	194(60.2)				
		Yes	18(5.6)				
11d. Isoproterenol infusion	VASO_ISO	Missing	110(34.2)				
		No	198(61.5)				
		Yes	14(4.3)				
11e. Milrinone infusion	VASO_MIL	Missing	110(34.2)				
		No	42(13.0)				
		Yes	170(52.8)				
11f. Norepinephrine (Levophed) infusion	VASO_NOR	Missing	110(34.2)				
		No	212(65.8)				

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11g. Vasopressin infusion	VASO_VASOP	Missing	110(34.2)				
		No	199(61.8)				
		Yes	13(4.0)				
11h. Days between patient off all Vasoactive infusions and procedure	VASO_D_DAY			212(110)	2.24(3.12)	1.00(1.00,2.00)	0.00-31.00
11i. Time patient off all off all Vasoactive Infusions (00:00 - 23:59)	VASO_T			212(110)			0:00-23:41
12. Days between patient off all continuous infusions of sedative and analgesic and procedure	OFF_D_DAY			270(52)	1.80(2.57)	1.00(1.00,2.00)	0.00-30.00
13. Time patient off all continuous infusions of sedative and analgesic (00:00 - 23:59)	OFF_T			270(52)			0:04-23:30
1a. ICU census on date of surgery	STAFF_CENSUS			296(26)	18.58(6.83)	21.00(17.00,23.00)	0.00-27.00
1b. Number of clinical care ICU nurses scheduled on day of surgery	STAFF_NURSES			296(26)	14.79(5.28)	16.00(13.00,18.00)	0.00-29.00
1c. In addition to primary nurse in ICU, was there a resource nurse?	STAFF_RESOURCE	No	30(9.3)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		Unknown	106(32.9)				
		Yes	186(57.8)				
1c1. Resource nurse total support time at bedside	STAFF_RESOURCE_T	<i>Missing</i>	136(42.2)				
		< 30 minutes	58(18.0)				
		> 60 minutes	8(2.5)				
		30 - 60 minutes	48(14.9)				
		Unknown	72(22.4)				
1c2. Additional (3rd nurse) needed to provide direct patient care at bedside?	STAFF_ADDITIONAL	<i>Missing</i>	136(42.2)				
		No	103(32.0)				
		Unknown	72(22.4)				
		Yes	11(3.4)				
2a1. Is there documentation of a preoperative anesthetic plan to allow early extubation?	DOCUMENT_ANES	No	21(6.5)				
		Unknown	119(37.0)				
		Yes	182(56.5)				



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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
2a2. Is there documentation of a postoperative analgesia/sedation plan to allow early extubation?	DOCUMENT_SED	No	22(6.8)				
		Unknown	119(37.0)				
		Yes	181(56.2)				
2a3. Time of initiation of post-operative IV fluids (00:00 - 23:59)	FLUIDS_T			322(0)			0:42-22:30
2b1. Is there documented communication that the ICU staff was informed of early extubation plan?	DOCUMENT_STAFF	No	28(8.7)				
		Unknown	117(36.3)				
		Yes	177(55.0)				
2b2. Is there documented communication from the anesthesiologist with the ICU care team regarding ability to receive potential early extubation patient?	DOCUMENT_ICU	No	25(7.8)				
		Unknown	118(36.6)				
		Yes	179(55.6)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
2c1. Time that initial vital sign assessment documented in ICU (00:00 - 23:59)	DOCUMENT_VITALS			322(0)			0:43-21:00
2c2. Time that 4th complete vital sign assessment documented in ICU (00:00 - 23:59)	DOCUMENT_VITALS_COMPLETE			322(0)			1:00-23:59
2c3. Is there documentation of blood gases, or pulse oximetry, or EtCO2, or ventilator settings, or oxygen at least twice within the first 6 hours of ICU arrival?	DOCUMENT_BUNDLE	No	3(0.9)				
		Unknown	4(1.2)				
		Yes	315(97.8)				
2c4. Is there documentation of significant hypertension?	SYSTOLIC	Missing	198(61.5)				
		No	70(21.7)				
		Unknown	5(1.6)				
		Yes	49(15.2)				
3a1. pH	ICU_PH_YN	No	3(0.9)				
		Yes	319(99.1)				
3a1i. pH value	ICU_PH			319(3)	7.38(0.08)	7.37(7.32,7.43)	7.00-7.60

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3a2. PaCO2	ICU_PACO2_YN	No	3(0.9)				
		Yes	319(99.1)				
3a2i. PaCO2 value (mm Hg)	ICU_PACO2			319(3)	42.76(8.60)	42.00(37.00,49.00)	23.00-72.00
3a3. PaO2	ICU_PAO2_YN	No	3(0.9)				
		Yes	319(99.1)				
3a3i. PaO2 value (mm Hg)	ICU_PAO2			319(3)	141.85(97.59)	108.00(73.00,182.00)	34.00-619.00
3a4. SaO2	ICU_SAO2_YN	No	4(1.2)				
		Yes	318(98.8)				
3a4i. SaO2 value (%)	ICU_SAO2			318(4)	96.19(5.20)	98.00(95.00,100.00)	58.00-100.00
3a5. Base	BASE_YN	No	9(2.8)				
		Unknown	7(2.2)				
		Yes	306(95.0)				
3a5i. Base value	BASE_VALUE			306(16)	0.66(2.79)	1.00(-1.00,3.00)	-6.00-8.00
3a6.Days between Arterial Blood Gas Draw and procedure	PH_D_DAY			321(1)	0.11(1.68)	0.00(0.00,0.00)	0.00-30.00
3a7. Time of Arterial Blood Gas Draw (00:00 - 23:59)	PH_T			321(1)			4:00-20:40

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3b. Lactate	LACTATE_YN	No	82(25.5)				
		Yes	240(74.5)				
3b1. Lactate value (mmol/l)	LACTATE_VALUE			240(82)	1.73(2.25)	1.41(1.08,1.89)	0.07-28.00
3b2.Days between Lactate Blood Draw and procedure	LACTATE_D_DAY			240(82)	0.14(1.94)	0.00(0.00,0.00)	0.00-30.00
3b3. Time of Lactate Blood Draw (00:00 - 23:59)	LACTATE_T			240(82)			1:55-23:40
3c. Hematocrit	HEM_YN	No	8(2.5)				
		Yes	314(97.5)				
3c1. Hematocrit value	HEM_VALUE			314(8)	36.95(6.41)	37.00(33.00,41.00)	15.70-63.00
3c2.Days between Hematocrit Blood Draw and procedure	HEM_D_DAY			314(8)	0.13(1.71)	0.00(0.00,0.00)	0.00-30.00
3c3. Time of Hematocrit Blood Draw (00:00 - 23:59)	HEM_T			314(8)			2:00-20:40
1st hour	HOUR1	0	114(35.4)				
		1	7(2.2)				
		2	8(2.5)				
		3	18(5.6)				

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		4	18(5.6)				
		5	15(4.7)				
		6	6(1.9)				
		7	5(1.6)				
		8	1(0.3)				
		9	1(0.3)				
		10	1(0.3)				
		Pain Assessed (Not FLACC)	102(31.7)				
		Unknown	26(8.1)				
2nd hour	HOUR2	0	87(27.0)				
		1	7(2.2)				
		2	14(4.3)				
		3	15(4.7)				
		4	12(3.7)				
		5	10(3.1)				
		6	8(2.5)				

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		7	3(0.9)				
		8	3(0.9)				
		10	1(0.3)				
		Pain Assessed (Not FLACC)	105(32.6)				
		Unknown	57(17.7)				
3rd hour	HOUR3	0	99(30.7)				
		1	6(1.9)				
		2	9(2.8)				
		3	20(6.2)				
		4	10(3.1)				
		5	14(4.3)				
		6	6(1.9)				
		7	3(0.9)				
		8	5(1.6)				
		9	1(0.3)				
		10	2(0.6)				

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		Pain Assessed (Not FLACC)	94(29.2)				
		Unknown	53(16.5)				
4th hour	HOUR4	0	100(31.1)				
		1	9(2.8)				
		2	6(1.9)				
		3	16(5.0)				
		4	12(3.7)				
		5	10(3.1)				
		6	4(1.2)				
		7	2(0.6)				
		8	3(0.9)				
		9	2(0.6)				
		10	2(0.6)				
		Pain Assessed (Not FLACC)	104(32.3)				
		Unknown	52(16.1)				
5th hour	HOUR5	0	80(24.8)				

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		1	7(2.2)				
		2	12(3.7)				
		3	14(4.3)				
		4	14(4.3)				
		5	13(4.0)				
		6	12(3.7)				
		7	2(0.6)				
		8	8(2.5)				
		9	1(0.3)				
		10	1(0.3)				
		Pain Assessed (Not FLACC)	98(30.4)				
		Unknown	60(18.6)				
6th hour	HOUR6	0	95(29.5)				
		1	8(2.5)				
		2	11(3.4)				
		3	16(5.0)				



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		4	20(6.2)				
		5	18(5.6)				
		6	6(1.9)				
		7	3(0.9)				
		8	2(0.6)				
		9	1(0.3)				
		10	2(0.6)				
		Pain Assessed (Not FLACC)	91(28.3)				
		Unknown	49(15.2)				
7th hour	HOUR7	0	79(24.5)				
		1	9(2.8)				
		2	15(4.7)				
		3	21(6.5)				
		4	11(3.4)				
		5	13(4.0)				
		6	8(2.5)				

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		7	1(0.3)				
		8	4(1.2)				
		9	2(0.6)				
		10	4(1.2)				
		Pain Assessed (Not FLACC)	87(27.0)				
		Unknown	68(21.1)				
8th hour	HOUR8	0	96(29.8)				
		1	4(1.2)				
		2	27(8.4)				
		3	15(4.7)				
		4	11(3.4)				
		5	15(4.7)				
		6	3(0.9)				
		7	3(0.9)				
		8	1(0.3)				
		9	1(0.3)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		10	8(2.5)				
		Pain Assessed (Not FLACC)	86(26.7)				
		Unknown	52(16.1)				
9th hour	HOUR9	0	86(26.7)				
		1	9(2.8)				
		2	15(4.7)				
		3	14(4.3)				
		4	11(3.4)				
		5	12(3.7)				
		6	5(1.6)				
		7	3(0.9)				
		8	5(1.6)				
		10	2(0.6)				
		Pain Assessed (Not FLACC)	93(28.9)				
		Unknown	67(20.8)				
10th hour	HOUR10	0	85(26.4)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		1	14(4.3)				
		2	16(5.0)				
		3	22(6.8)				
		4	12(3.7)				
		5	13(4.0)				
		6	5(1.6)				
		7	4(1.2)				
		8	2(0.6)				
		10	3(0.9)				
		Pain Assessed (Not FLACC)	94(29.2)				
		Unknown	52(16.1)				
11th hour	HOUR11	0	94(29.2)				
		1	9(2.8)				
		2	17(5.3)				
		3	10(3.1)				
		4	11(3.4)				

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Organization of file: One Record per Patient

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		5	8(2.5)				
		6	4(1.2)				
		7	5(1.6)				
		8	5(1.6)				
		10	1(0.3)				
		Pain Assessed (Not FLACC)	86(26.7)				
		Unknown	72(22.4)				
12th hour	HOUR12	Missing	1(0.3)				
		0	99(30.7)				
		1	12(3.7)				
		2	15(4.7)				
		3	12(3.7)				
		4	11(3.4)				
		5	12(3.7)				
		6	6(1.9)				
		7	1(0.3)				

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**Organization of file: One Record per Patient**

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		8	1(0.3)				
		9	2(0.6)				
		10	11(3.4)				
		Pain Assessed (Not FLACC)	86(26.7)				
		Unknown	53(16.5)				
5a. Mode	VENT_MODE	<i>Missing</i>	261(81.1)				
		CPAP	5(1.6)				
		CPAP + Pressure Support	24(7.5)				
		Other	1(0.3)				
		Pressure Support	1(0.3)				
		SIMV-PC	16(5.0)				
		SIMV-VC	13(4.0)				
		Unknown	1(0.3)				
5a1. Other ventilation mode, Specify	VENT_MODE_OTH		321(99.7)				
		PRVC	1(0.3)				
5b1. Ventilator Rate	VENT_RATE_YN	<i>Missing</i>	261(81.1)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		No	31(9.6)				
		Unknown	1(0.3)				
		Yes	29(9.0)				
5b1i. Ventilator Rate (minutes)	VENT_RATE			29(293)	16.17(12.11)	12.00(10.00,20.00)	5.00-68.00
5b2. Spontaneous Breathing Rate	VENT_RATE_SPON_YN	Missing	261(81.1)				
		No	6(1.9)				
		Unknown	1(0.3)				
		Yes	54(16.8)				
5b2i. Spontaneous Breathing Rate (minutes)	VENT_RATE_SPON			54(268)	26.69(14.60)	26.00(19.00,33.00)	0.00-70.00
5b3. Peak inspiratory pressure (PIP)	VENT_PIP_YN	Missing	261(81.1)				
		No	29(9.0)				
		Unknown	2(0.6)				
		Yes	30(9.3)				
5b3i. Peak inspiratory pressure (cmH2O)	VENT_PIP			30(292)	16.83(4.12)	16.00(15.00,19.00)	10.00-26.00

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
5b4. Positive end-expiratory pressure (PEEP)	VENT_PEEP_YN	Missing	261(81.1)				
		No	1(0.3)				
		Yes	60(18.6)				
5b4i. Positive end-expiratory pressure (cmH2O)	VENT_PEEP			60(262)	4.98(1.78)	5.00(5.00,5.00)	0.00-17.00
5b5. Mean airway pressure (MAP)	VENT_MAP_YN	Missing	261(81.1)				
		No	22(6.8)				
		Unknown	7(2.2)				
		Yes	32(9.9)				
5b5i. Mean airway pressure (cmH2O)	VENT_MAP			32(290)	7.78(1.31)	8.00(7.00,9.00)	5.00-10.00
5b6. Pressure support (PS)	VENT_PS_YN	Missing	261(81.1)				
		No	4(1.2)				
		Yes	57(17.7)				
5b6i. Amount of pressure support (cmH2O)	VENT_PS			57(265)	7.56(2.55)	8.00(5.00,10.00)	5.00-15.00
5b7. Tidal Volume	VENT_TIDAL_YN	Missing	261(81.1)				



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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		No	32(9.9)				
		Unknown	4(1.2)				
		Yes	25(7.8)				
5b7i. Tidal Volume (ml)	VENT_TIDAL			25(297)	43.84(15.94)	45.00(35.00,55.00)	9.00-67.00
5a1. pH	ICU_PH_YN_POST	Missing	164(50.9)				
		No	1(0.3)				
		Yes	157(48.8)				
5a1i. pH value	ICU_PH_POST			157(165)	7.37(0.05)	7.37(7.34,7.40)	7.24-7.60
5a2. PaCO2	ICU_PACO2_YN_POST	Missing	164(50.9)				
		No	1(0.3)				
		Yes	157(48.8)				
5a2i. PaCO2 value (mm Hg)	ICU_PACO2_POST			157(165)	41.66(6.17)	42.00(38.00,46.00)	20.00-57.00
5a3. PaO2	ICU_PAO2_YN_POST	Missing	164(50.9)				
		No	1(0.3)				
		Yes	157(48.8)				
5a3i. PaO2 value (mm Hg)	ICU_PAO2_POST			157(165)	106.72(50.01)	98.00(74.00,129.00)	38.00-456.00

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
5a4. SaO2	ICU_SAO2_YN_POST	<i>Missing</i>	164(50.9)				
		No	1(0.3)				
		Unknown	1(0.3)				
		Yes	156(48.4)				
5a4i. SaO2 value (%)	ICU_SAO2_POST			156(166)	95.80(5.21)	98.00(94.00,99.00)	69.00-100.00
5a5. Base	BASE_YN_POST	<i>Missing</i>	164(50.9)				
		No	6(1.9)				
		Unknown	6(1.9)				
		Yes	146(45.3)				
5a5i. Base value	BASE_VALUE_POST			146(176)	-0.51(2.96)	0.00(-3.00,1.00)	-10.00-8.00
5a6. Days between Arterial Blood Gas Draw and procedure	PH_D_POST_DAY			156(166)	0.61(3.53)	0.00(0.00,0.00)	0.00-31.00
5a7. Time of Arterial Blood Gas Draw (00:00 - 23:59)	PH_T_POST			157(165)			0:01-23:35
5b. Lactate	LACTATE_YN_POST	<i>Missing</i>	164(50.9)				
		No	35(10.9)				
		Yes	123(38.2)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
5b1. Lactate value (mmol/l)	LACTATE_VALUE_POST			123(199)	2.44(6.13)	1.10(0.83,1.60)	0.32-38.00
5b2. Days between Lactate Blood Draw and procedure	LACTATE_D_POST_DAY			123(199)	0.41(2.72)	0.00(0.00,0.00)	0.00-30.00
5b3. Time of Lactate Blood Draw (00:00 - 23:59)	LACTATE_T_POST			123(199)			0:01-23:35
6a. Mode	VENT_MODE_POST	Missing		164(50.9)			
		CPAP		3(0.9)			
		CPAP + Pressure Support		3(0.9)			
		Other		3(0.9)			
		Pressure Support		2(0.6)			
		SIMV-PC		59(18.3)			
		SIMV-VC		88(27.3)			
6a1. Other ventilation mode, Specify	VENT_MODE__POST_OTH			.(.)	.(.)	.(.,.)	.-.
6b1. Ventilator rate	VENT_RATE_POST_YN	Missing		164(50.9)			
		No		7(2.2)			
		Yes		151(46.9)			
6b1i. Ventilator Rate (minutes)	VENT_RATE_POST			151(171)	19.86(6.88)	20.00(15.00,24.00)	8.00-43.00

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
6b2. Spontaneous Breathing Rate	VENT_RATE_SPON_POST_YN	<i>Missing</i>	164(50.9)				
		No	29(9.0)				
		Unknown	5(1.6)				
		Yes	124(38.5)				
6b2i. Spontaneous Breathing Rate (minutes)	VENT_RATE_SPON_POST			124(198)	18.40(12.98)	18.00(10.00,24.50)	0.00-65.00
6b3. Peak inspiratory pressure (PIP)	VENT_PIP_POST_YN	<i>Missing</i>	164(50.9)				
		No	48(14.9)				
		Unknown	5(1.6)				
		Yes	105(32.6)				
6b3i. Peak inspiratory pressure (cmH2O)	VENT_PIP_POST			105(217)	20.12(4.25)	20.00(17.00,23.00)	6.00-32.00
6b4. Positive end-expiratory pressure (PEEP)	VENT_PEEP_POST_YN	<i>Missing</i>	164(50.9)				
		No	1(0.3)				
		Unknown	2(0.6)				
		Yes	155(48.1)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
6b4i. Positive end-expiratory pressure (cmH2O)	VENT_PEEP_POST			155(167)	5.36(2.16)	5.00(5.00,5.00)	3.00-21.00
6b5. Mean airway pressure (MAP)	VENT_MAP_POST_YN	<i>Missing</i>	164(50.9)				
		No	13(4.0)				
		Unknown	19(5.9)				
		Yes	126(39.1)				
6b5i. Mean airway pressure (cmH2O)	VENT_MAP_POST			126(196)	9.41(6.57)	8.00(7.00,10.00)	4.00-60.00
6b6. Pressure support (PS)	VENT_PS_POST_YN	<i>Missing</i>	164(50.9)				
		No	8(2.5)				
		Unknown	1(0.3)				
		Yes	149(46.3)				
6b6i. Amount of pressure support (cmH2O)	VENT_PS_POST			149(173)	7.82(2.35)	8.00(5.00,10.00)	5.00-15.00
6b. Tidal Volume	VENT_TIDAL_POST_YN	<i>Missing</i>	164(50.9)				
		No	14(4.3)				
		Unknown	9(2.8)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		Yes	135(41.9)				
6b7i. Tidal Volume (ml)	VENT_TIDAL_POST			135(187)	42.50(17.70)	42.00(28.00,55.00)	11.00-90.00
1. Re-Intubation after Initial Extubation?	RE_INTUB	No	308(95.7)				
		Yes	14(4.3)				
1a.Days between Re-intubation and procedure	RE_INTUB_D_DAY			14(308)	3.21(4.00)	1.00(1.00,5.00)	0.00-14.00
1b. Re-Intubation Time (00:00 - 23:59)	RE_INTUB_T			14(308)			4:18-23:01
1c.Days between final extubation and procedure	RE_EXTUB_D_DAY			14(308)	8.71(10.31)	5.50(3.00,10.00)	0.00-40.00
1d. Final Extubation Time (00:00 - 23:59)	RE_EXTUB_T			14(308)			1:14-21:38
2. Positive Airway Pressure (CPAP/BIPAP)?	PAP	No	220(68.3)				
		Yes	102(31.7)				
2a. at postoperative ICU arrival?	PAP_START	Missing	220(68.3)				
		No	94(29.2)				
		Yes	8(2.5)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
2b. at postoperative ICU discharge?	PAP_END	Missing	220(68.3)				
		No	100(31.1)				
		Yes	2(0.6)				
3. High Flow Nasal Cannula (HFNC)?	HFNC	No	241(74.8)				
		Yes	81(25.2)				
3a. at postoperative ICU arrival?	HFNC_START	Missing	241(74.8)				
		No	69(21.4)				
		Yes	12(3.7)				
3b. at postoperative ICU discharge?	HFNC_END	Missing	241(74.8)				
		No	80(24.8)				
		Yes	1(0.3)				
4. Enteral feeding initiated during ICU stay?	ENTERAL	No	122(37.9)				
		Yes	200(62.1)				
4a.Days between Enteral Feeding Initiated and procedure	ENTERAL_D_INITIATE_DAY			200(122)	1.64(2.37)	1.00(1.00,2.00)	0.00-31.00

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
4b. Time Enteral Feeding Initiated (00:00 - 23:59)	ENTERAL_T_INITIATE			200(122)			0:00-23:00
5. Oral feeding initiated during ICU stay?	ORAL	No	36(11.2)				
		Yes	286(88.8)				
5a.Days between Oral Feeding Initiated and procedure	ENTERAL_D_ORAL_INITIATE_DAY			286(36)	1.91(4.41)	1.00(1.00,2.00)	0.00-58.00
5b. Time Oral Feeding Initiated (00:00 - 23:59)	ENTERAL_T_ORAL_INITIATE			286(36)			0:00-23:00
6.Days between Critical Care End date and procedure date	ICU_END_D_DAY			320(2)	3.93(6.67)	2.00(2.00,4.00)	1.00-91.00
7. Critical Care End Time (00:00 - 23:59)	ICU_END_T			319(3)			0:47-23:24
8.Days between ICU discharge date and procedure date	ICU_DISCHARGE_D_DAY			322(0)	4.02(6.65)	2.50(2.00,4.00)	1.00-91.00
9. ICU Discharge Time (00:00 - 23:59)	ICU_DISCHARGE_T			322(0)			0:55-22:27
10. Unplanned Return to ICU?	ICU_RETURN	No	317(98.4)				
		Yes	5(1.6)				
10a.Days between unplanned ICU return and procedure date	ICU_RETURN_D_DAY			5(317)	8.00(7.78)	6.00(2.00,11.00)	1.00-20.00



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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
10b. Unplanned Return to ICU Time (00:00 - 23:59)	ICU_RETURN_T			5(317)			1:03-16:19
1. Multi-System Organ Failure (MSOF) = Multi-Organ Dysfunction Syndrome (MODS)	COMPLI_MSOF	No	321(99.7)				
		Yes	1(0.3)				
2. Unexpected Cardiac arrest	COMPLI_UNEX_ARREST	Missing	2(0.6)				
		No	318(98.8)				
		Yes	2(0.6)				
3. Cardiac dysfunction resulting in low cardiac output	COMPLI_CARD_DYS	No	316(98.1)				
		Yes	6(1.9)				
4. Arrhythmia(s) Requiring Therapy	ARRYTH	No	295(91.6)				
		Yes	27(8.4)				
4a. Foci	ARRYTH_TYPE	Missing	295(91.6)				
		Atrial	2(0.6)				
		Complete Heart Block	1(0.3)				
		Junctional	21(6.5)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		Ventricular	3(0.9)				
4b.Days between start date of Ayrhythmia Requiring Therapy and procedure	FOCI_START_D_DAY			27(295)	1.00(1.64)	1.00(0.00,1.00)	0.00-8.00
5. Bleeding, Requiring reoperation	COMPLI_BLEED	No	318(98.8)				
		Yes	4(1.2)				
6. Sternum left open	STERNUM	No	318(98.8)				
		Yes	4(1.2)				
7. Unplanned cardiac reoperation, exclusive of reoperation for bleeding	COMPLI_UNPLAN_REOPERATE	No	319(99.1)				
		Yes	3(0.9)				
8. Unplanned interventional therapeutic cardiovascular catheterization	COMPLI_UNPLAN_INTERVEN	No	318(98.8)				
		Yes	4(1.2)				
9. Unplanned non-cardiac reoperation	UNPLAN_NONCARD_REOPER	No	319(99.1)				
		Yes	3(0.9)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
10. Mechanical circulatory support (IABP, VAD, ECMO, or CPS)	COMPLI_MECH	No	322(100.0)				
11. Pleural effusion, Requiring drainage	COMPLI_PLEURAL_EFFUS	No	314(97.5)				
		Yes	8(2.5)				
12. Pneumonia	COMPLI_PNEU	No	319(99.1)				
		Yes	3(0.9)				
13. Pneumothorax, Requiring drainage or evacuation	COMPLI_PNEU_DRAIN	No	322(100.0)				
14. Respiratory failure, Requiring tracheostomy	COMPLI_RESP_FAIL	No	322(100.0)				
15. Acute renal failure Requiring dialysis or hemofiltration	COMPLI_RENAL_DIAL	No	319(99.1)				
		Yes	3(0.9)				
16. Sepsis	COMPLI_SEP	No	322(100.0)				
17. Vocalcord dysfunction (possible recurrent laryngeal nerve injury)	COMPLI_VOCAL	No	316(98.1)				
		Yes	6(1.9)				
18. Wound infection	COMPLI_WOUND_INFEC	No	319(99.1)				

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Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		Yes	3(0.9)				
19. Catheter associated bloodstream infection	COMPLI_CATH	No	322(100.0)				
1.Days between discharge and procedure date	DISCHARGE_D_DAY			322(0)	7.79(8.48)	6.00(4.00,8.00)	2.00-110.00
2. Mortality Status at Hospital Discharge	MORT_STAT	Alive	319(99.1)				
		Dead	3(0.9)				
3. Tube Feeding at Hospital Discharge?	TUBE	Missing	3(0.9)				
		No	259(80.4)				
		Yes	60(18.6)				
4. Discharge Location	DISCHARGE_LOC	Missing	3(0.9)				
		Home	319(99.1)				
11a2.Days between start date of Dobutamine infusion and procedure date	VASO_DOB_D_DAY						
11a2. Start Time of Dobutamine infusion (00:00 - 23:59)	VASO_DOB_T						

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**Organization of file: One Record per Patient**

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
11c1.Days between start date of Epinephrine infusion and procedure date	VASO_EPI_D_DAY			3(319)	0.67(0.58)	1.00(0.00,1.00)	0.00-1.00
11c2. Start Time of Epinephrine (Adrenalin) infusion (00:00 - 23:59)	VASO_EPI_T			3(319)			1:00-18:25
11f1.Days between start date of Norepinephrine infusion and procedure date	VASO_NOR_D_DAY						
11f2. Start Time of Norepinephrine (Levophed) infusion(00:00 - 23:59)	VASO_NOR_T						
11g1.Days between start date of Vasopressin infusion and procedure date	VASO_VASOP_D_DAY			2(320)	1.00(1.41)	1.00(0.00,2.00)	0.00-2.00
11g2. Start Time of Vasopressin infusion (00:00 - 23:59)	VASO_VASOP_T			2(320)			15:44-16:34
6a1. pH	ICU_PH_YN_EXT	Missing	273(84.8)				
		Same As <b>3. First Lab Tests in ICU</b>	13(4.0)				
		Yes	36(11.2)				
6a1i. pH value	ICU_PH_EXT			36(286)	7.36(0.05)	7.36(7.33,7.41)	7.24-7.42
6a2. PaCO2	ICU_PACO2_YN_EXT	Missing	273(84.8)				

# COLLABORATIVE LEARNING CODEBOOK

## Form: Postoperative Information

(raw data)

**DATE CREATED 22JUN18**

**Number of Observations: 322**

**Number of Variables: 224**

**Organization of file: One Record per Patient**

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		Same As <b>3. First Lab Tests in ICU</b>	13(4.0)				
		Yes	36(11.2)				
6a2i. PaCO2 value (mm Hg)	ICU_PACO2_EXT			36(286)	42.19(5.88)	41.00(38.00,45.00)	34.00-60.00
6a3. PaO2	ICU_PAO2_YN_EXT	Missing	273(84.8)				
		Same As <b>3. First Lab Tests in ICU</b>	13(4.0)				
		Yes	36(11.2)				
6a3i. PaO2 value (mm Hg)	ICU_PAO2_EXT			36(286)	119.06(60.38)	105.50(72.00,161.50)	41.00-275.00
6a4. SaO2	ICU_SAO2_YN_EXT	Missing	273(84.8)				
		Same As <b>3. First Lab Tests in ICU</b>	13(4.0)				
		Yes	36(11.2)				
6a4i. SaO2 value (%)	ICU_SAO2_EXT			36(286)	95.86(5.62)	98.00(95.00,100.00)	75.00-100.00
6a5. Base	BASE_YN_EXT	Missing	273(84.8)				
		No	1(0.3)				
		Same As <b>3. First Lab Tests in ICU</b>	13(4.0)				

# COLLABORATIVE LEARNING CODEBOOK

## Form: Postoperative Information

(raw data)

**DATE CREATED 22JUN18**

**Number of Observations: 322**

**Number of Variables: 224**

**Organization of file: One Record per Patient**

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
		Yes	35(10.9)				
6a5i. Base value	BASE_VALUE_EXT			35(287)	-0.83(2.16)	-1.00(-2.00,0.00)	-5.00-4.00
6a6.Days between Date of Arterial Blood Gas Draw and procedure	PH_D_EXT_DAY			36(286)	0.08(0.28)	0.00(0.00,0.00)	0.00-1.00
6a7. Time of Arterial Blood Gas Draw (00:00 - 23:59)	PH_T_EXT			36(286)			0:53-23:38
6b. Lactate	LACTATE_YN_EXT	Missing	273(84.8)				
		No	3(0.9)				
		Same As <b>3. First Lab Tests in ICU</b>	17(5.3)				
		Yes	29(9.0)				
6b1. Lactate value (mmol/l)	LACTATE_VALUE_EXT			29(293)	1.16(0.48)	1.04(0.90,1.24)	0.46-2.20
6b2.Days between Lactate Blood Draw and procedure	LACTATE_D_EXT_DAY			29(293)	0.07(0.26)	0.00(0.00,0.00)	0.00-1.00
6b3. Time of Lactate Blood Draw (00:00 - 23:59)	LACTATE_T_EXT			29(293)			0:53-22:16
4c. Start Time of Arrythmia(s) Requiring Therapy (00:00 - 23:59)	FOCI_START_T			10(312)			1:49-19:20

# COLLABORATIVE LEARNING CODEBOOK

## Form: Postoperative Information

(raw data)

**DATE CREATED 22JUN18**

**Number of Observations: 322**

**Number of Variables: 224**

**Organization of file: One Record per Patient**

Variable Label (VAR)	Variable Name	Category	N(%)	N(Missing)	Mean(SD)	Median(Q1,Q3)	Range of Values
5a.Days between start date of bleeding, requiring reoperation and procedure date	COMPLI_BLEED_START_D_DAY						
5b. Start Time of Bleeding, Requiring reoperation (00:00 - 23:59)	COMPLI_BLEED_START_T						