

[Median (IQR)] Cardiorespiratory Event Frequency				
Variable	Overall Cohort	Successful Extubation	Failed Extubation	P-Value
Number of Respiratory Pauses (>3s)	35 (20, 47.5)	29.5 (15.3, 42.5)	45.0 (21.0, 85.5)	0.1040
Number of Respiratory Pauses (>10s)	3.0 (2.0, 6.0)	2.0 (1.0, 4.0)	5.0 (2.5, 16.5)	0.0109
Number of Desaturations	32 (16, 45)	32 (12, 45)	30.5 (14.8, 55.5)	0.7820
Number of Bradycardias	1.0 (0, 3.5)	1.0 (0, 3.0)	2.0 (0.8, 5.3)	0.1620
[Median (IQR)] Cardiorespiratory Event Duration (s)				
Variable	Overall Cohort	Successful Extubation	Failed Extubation	P-Value
Respiratory Pause (>3s) Duration	4.9 (3.7, 8.2)	6.1 (5.3, 7.2)	7.4 (6.1, 9.8)	0.0743
Respiratory Pause (>10s) Duration	16.9 (12.9, 23.4)	17.7 (14.1, 23.1)	21.0 (16.5, 23.5)	0.4370
Desaturation Duration	59.7 (31.5, 94.5)	64.9 (33.5, 98.2)	56.2 (26.3, 112.3)	0.7510
Bradycardia Duration	6.6 (5.8, 9.9)	7.5 (6.4, 11.8)	7.7 (6.0, 10.7)	1.0000
Cardiorespiratory Event Transition Probability				
Transition	Overall Cohort	Successful Extubation	Failed Extubation	P-Value
Respiratory Pause	0.955	0.963	0.944	0.6625
Respiratory Pause → Desaturation	0.034	0.025	0.046	0.5882
Respiratory Pause → Bradycardia	0.011	0.012	0.010	0.6996
Desaturation	0.820	0.855	0.769	0.4172
Desaturation → Respiratory Pause	0.168	0.134	0.216	0.4317
Desaturation → Bradycardia	0.012	0.011	0.015	0.2143
Bradycardia	0.889	0.871	0.913	0.7751
Bradycardia → Respiratory Pause	0.074	0.032	0.043	0.5547
Bradycardia → Desaturation	0.037	0.097	0.043	0.9306
[Median] Cardiorespiratory Event Time Differences (s)				
Transition	Overall Cohort	Successful Extubation	Failed Extubation	P-Value
Respiratory Pause	4.9	4.9	4.7	0.5892
Respiratory Pause → Desaturation	4.8	6.9	5.2	1.0000
Respiratory Pause → Bradycardia	6.3	9.4	4.4	0.3374
Desaturation	8.6	14.1	13.1	0.4188
Desaturation → Respiratory Pause	9.2	57.4	19.7	0.6713
Desaturation → Bradycardia	3.0	6.4	33.6	0.2159
Bradycardia	10.6	6.1	7.4	0.5254
Bradycardia → Respiratory Pause	5.8	4.3	0.1	–
Bradycardia → Desaturation	0.96	8.9	1.0	–