

Supplemental Data

Projected alarm rates (number of alarms/patient/day) from simulations in the cloud-hosted database

Threshold - Heart Rate

		25	35	45	135	145	155
delay (s)	0	4.9	6.5	17.5	10.7	5.5	2.6
	5	2.4	3.3	10.2	5.0	2.3	0.9
	10	1.9	2.5	7.8	3.8	1.7	0.7
	15	1.5	1.9	6.2	3.0	1.3	0.5

Threshold - Respiratory Rate

		2	4	6	30	35	40
delay (s)	90	0.2	0.4	1.4	2.5	0.5	0.1
	105	0.1	0.3	1.1	2.1	0.4	0.1
	120	0.1	0.3	0.9	1.8	0.3	0.0
	135	0.1	0.2	0.7	1.5	0.3	0.0
	150	0.1	0.2	0.6	1.3	0.2	0.0

Threshold - SpO2

		80	85	90
delay (s)	20	0.7	4.8	42.1
	25	0.6	4.0	36.1
	30	0.6	3.7	33.7
	35	0.5	3.1	29.5
	40	0.4	2.7	26.2

Threshold - cNIBP Systolic

		180	190	200
delay (s)	30	2.7	1.2	0.6
	45	2.3	1.1	0.5
	60	2.0	0.9	0.4
	75	1.8	0.8	0.4
	90	1.5	0.7	0.3

Threshold - cNIBP - MAP

		55	60	65
delay (s)	30	0.4	1.3	3.4
	45	0.3	1.1	2.8
	60	0.3	0.9	2.5
	75	0.2	0.7	2.1
	90	0.2	0.6	1.9