

Supplemental Information

SUPPLEMENTAL APPENDIX 1 Success Rate (SR) and Event Identification Rate (EIR) of Various Observation Times for Apnea and Bradycardia, Stratified According to Gestational Age or PMA of the Last Event

Apnea SR					
Gestational Age Categories					
	≤ 26 wk	27-28 wk	29-30 wk	31-32 wk	33-34 wk
1 d	77.8 (70.8, 84.3)	82.9 (78.2, 87.4)	85.6 (82.1, 88.8)	91.7 (89.6, 93.9)	95.7 (94.3, 96.9)
2 d	83.6 (78.6, 88.5)	88.2 (84.5, 91.4)	89.8 (87.2, 92.2)	94.6 (93.1, 96.1)	96.7 (95.6, 97.6)
3 d	86.1 (81.4, 90.6)	91.2 (88.3, 94)	91.7 (89.4, 93.7)	95.6 (94.2, 96.9)	97.4 (96.4, 98.2)
4 d	88.7 (84.5, 92.5)	92.3 (89.6, 94.7)	92.5 (90.3, 94.4)	96.1 (94.9, 97.3)	97.8 (96.9, 98.5)
5 d	89.4 (85.1, 93.2)	92.5 (89.9, 94.9)	93 (90.9, 94.9)	96.6 (95.3, 97.7)	98.2 (97.4, 98.9)
6 d	90.4 (86.3, 94)	93.4 (90.7, 95.6)	93.6 (91.7, 95.4)	96.8 (95.7, 97.9)	98.5 (97.7, 99.1)
7 d	90.8 (86.9, 94.2)	93.9 (91.2, 96.1)	94.8 (93, 96.4)	97.1 (96, 98.1)	98.6 (97.9, 99.2)
8 d	91.1 (87.4, 94.5)	94 (91.5, 96.2)	95.3 (93.5, 96.9)	97.4 (96.3, 98.4)	98.8 (98.1, 99.3)
9 d	92.1 (88.4, 95.3)	95.2 (92.9, 97.2)	96.1 (94.5, 97.4)	97.7 (96.7, 98.6)	99 (98.4, 99.5)
10 d	92.3 (88.8, 95.5)	95.3 (93, 97.3)	96.1 (94.5, 97.5)	98 (97, 98.8)	99.1 (98.5, 99.6)
11 d	93.3 (90, 96.3)	95.9 (93.9, 97.8)	96.2 (94.6, 97.5)	98.4 (97.5, 99.1)	99.2 (98.6, 99.7)
12 d	94.1 (90.8, 97)	96.2 (94, 98)	96.3 (94.7, 97.6)	98.5 (97.6, 99.2)	99.2 (98.6, 99.7)
13 d	94.6 (91.5, 97.3)	96.2 (94, 98)	96.3 (94.7, 97.6)	98.7 (97.9, 99.3)	99.3 (98.8, 99.7)
14 d	95.2 (92.3, 97.8)	96.5 (94.5, 98.2)	96.8 (95.3, 98)	98.8 (98.1, 99.5)	99.4 (98.9, 99.8)

Apnea EIR					
Gestational Age Categories					
	≤ 26 wk	27-28 wk	29-30 wk	31-32 wk	33-34 wk
1 d	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)
2 d	20.8 (12, 31.1)	27.3 (17.6, 37.3)	25.6 (17.9, 33.4)	30.1 (21.4, 40)	18.6 (10.2, 27.2)
3 d	32.2 (19.9, 44.9)	44.8 (32.8, 56.9)	37 (27.4, 46.2)	40.9 (30.5, 52.9)	33.5 (21.7, 46.3)
4 d	44.3 (30.6, 57.6)	49.8 (37.8, 62.4)	41.5 (31.1, 50.9)	48.6 (37.4, 60.8)	43.3 (30.1, 56.7)
5 d	46.4 (32.1, 60.8)	51 (38.7, 64)	44.9 (34.1, 54.9)	53.7 (41.6, 65.6)	54.2 (40.4, 68.4)
6 d	51.2 (36.5, 65.4)	56 (42.8, 68.9)	50.1 (38.8, 60.5)	56.5 (44, 68.5)	61.3 (47.6, 75.5)
7 d	52.8 (38.3, 67.2)	58.3 (44.8, 71.3)	59.5 (47.4, 69.6)	59.8 (46.8, 71.4)	64.4 (50.7, 78.7)
8 d	53.9 (39, 68.6)	59.1 (45.7, 72.2)	62.7 (50.9, 73.4)	64 (51.8, 75.8)	69.4 (55.8, 82.1)
9 d	58.7 (43.2, 73.6)	66.6 (53.2, 79.3)	69.2 (58.5, 78.9)	68.2 (55.6, 79.6)	74.4 (61, 86.3)
10 d	59.7 (44.3, 74.8)	67.1 (53.7, 79.8)	69.2 (58.6, 79.1)	72.3 (60.3, 83.5)	76.9 (63.3, 88.5)
11 d	64.7 (48.5, 78.9)	72 (58.9, 84.2)	69.6 (59, 79.4)	78.6 (67.8, 88.4)	79.4 (67.4, 90.3)
12 d	68.6 (52.3, 82.8)	73.2 (60.2, 85.2)	70.4 (59.8, 80.4)	79.6 (68.9, 89.5)	79.4 (67.4, 90.3)
13 d	71.7 (56.7, 85)	73.2 (60.2, 85.2)	70.4 (59.8, 80.4)	82.4 (72.4, 91.3)	81.9 (70.3, 92.4)
14 d	74.8 (60, 88.2)	75.7 (63.4, 87)	74.8 (64.5, 84.1)	84.5 (74.6, 93)	84.4 (73.5, 93.8)
Bradycardia SR					
Gestational Age Categories					
	≤ 26 wk	27-28 wk	29-30 wk	31-32 wk	33-34 wk
1 d	72.5 (65.8, 79.7)	77.3 (71.9, 82.2)	79.4 (75.3, 83.2)	88.2 (85.5, 90.7)	93.7 (91.9, 95.2)
2 d	81.1 (76.1, 85.9)	85.6 (81.9, 89.3)	86.1 (83.2, 88.9)	91.9 (89.9, 93.7)	95.4 (94.1, 96.6)
3 d	84.8 (80.4, 88.8)	88.8 (85.6, 91.8)	88.5 (85.9, 91)	93.8 (92.1, 95.4)	96.3 (95.2, 97.4)
4 d	88 (83.8, 92)	90.4 (87.5, 93.2)	89.9 (87.3, 92.3)	94.3 (92.6, 95.8)	96.8 (95.8, 97.8)

SUPPLEMENTAL APPENDIX 1 Continued

5 d	90.4 (86.3, 94.1)	91.8 (89.1, 94.5)	91.4 (89.1, 93.6)	95.3 (93.8, 96.7)	97.5 (96.6, 98.3)
6 d	92 (88.4, 95.4)	92.2 (89.5, 94.8)	92.7 (90.7, 94.7)	95.9 (94.5, 97.2)	98 (97.2, 98.7)
7 d	92.5 (89.1, 95.7)	92.4 (89.7, 94.9)	93.6 (91.6, 95.5)	96.3 (95, 97.5)	98.2 (97.5, 98.9)
8 d	93.2 (89.9, 96.3)	92.6 (90, 95.1)	93.8 (91.8, 95.7)	96.9 (95.7, 98)	98.6 (97.9, 99.2)
9 d	93.8 (90.5, 96.7)	93.5 (91.1, 95.8)	94.6 (92.7, 96.3)	97.3 (96.2, 98.3)	98.7 (98, 99.3)
10 d	94 (90.8, 96.8)	93.8 (91.3, 96)	95.1 (93.3, 96.8)	97.3 (96.2, 98.3)	98.9 (98.3, 99.4)
11 d	95.6 (92.7, 98)	94.2 (91.8, 96.3)	95.1 (93.3, 96.8)	97.8 (96.8, 98.7)	99 (98.4, 99.5)
12 d	95.8 (93, 98.2)	94.8 (92.5, 96.8)	95.1 (93.4, 96.8)	98 (97.1, 98.9)	99 (98.4, 99.5)
13 d	95.8 (93, 98.2)	95.1 (92.9, 97)	95.3 (93.6, 96.9)	98.2 (97.2, 99)	99 (98.4, 99.5)
14 d	95.8 (93, 98.2)	95.1 (92.9, 97)	95.9 (94.3, 97.4)	98.4 (97.6, 99.2)	99.1 (98.5, 99.5)
Bradycardia EIR					
Gestational Age Categories					
	≤ 26 wk	27-28 wk	29-30 wk	31-32 wk	33-34 wk
1 d	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)
2 d	24.6 (15.3, 34.8)	33.6 (24.1, 43.7)	28.2 (21.1, 35.6)	27.3 (19.6, 34.9)	24.1 (15.8, 34)
3 d	37.1 (25.2, 49.1)	47.5 (37.6, 57.5)	38.3 (29.8, 46.8)	42.5 (32.8, 51.9)	39 (28.8, 50.3)
4 d	49 (35.1, 62.6)	53.5 (42.9, 63.5)	44.6 (35, 53.2)	46.5 (36.2, 56.4)	46.2 (35, 57.9)
5 d	58.8 (44.4, 72.2)	59.4 (48.2, 69.7)	52 (42.1, 60.9)	54.9 (44.3, 65.4)	56.7 (45.1, 67.6)
6 d	66.5 (53, 79.5)	60.9 (50, 71.3)	59.1 (49.4, 68.1)	60 (49.2, 70.6)	64.8 (53.3, 75.2)
7 d	67.7 (54.5, 80.8)	61.9 (50.6, 72.3)	63.5 (53.1, 72.8)	63.8 (53.2, 73.9)	68.7 (57.8, 78.7)
8 d	70.9 (57.9, 83.1)	62.5 (51.1, 72.9)	64.7 (54.4, 74.1)	69.6 (59.4, 79.3)	76.4 (66.3, 85.5)
9 d	73.5 (60.5, 85.5)	67.3 (56.3, 77.4)	69 (59.4, 77.7)	73.9 (63.8, 83.4)	77.8 (67.6, 87.2)

SUPPLEMENTAL APPENDIX 1 Continued

10 d	74.1 (60.9, 85.9)	68.3 (57.3, 78.4)	72 (62.9, 80.6)	73.9 (63.8, 83.4)	81.3 (71.8, 89.8)	
11 d	81.2 (69, 91.5)	70.2 (59.5, 80.2)	72 (62.9, 80.6)	79.7 (71, 87.9)	83.1 (73.9, 91.3)	
12 d	81.8 (69.7, 92.3)	73.1 (62.5, 83.2)	72.2 (63, 80.9)	81.2 (72.5, 89.2)	83.1 (73.9, 91.3)	
13 d	81.8 (69.7, 92.3)	74 (63.6, 84)	72.8 (63.7, 81.3)	82.6 (73.9, 90.3)	83.1 (73.9, 91.3)	
14 d	81.8 (69.7, 92.3)	74 (63.6, 84)	76.5 (67.6, 84.6)	85.5 (77.6, 92.5)	84.8 (76, 92.8)	
Apnea SR						
PMA of Last Event Categories						
	31-32 wk	33-34 wk	35-36 wk	37-38 wk	39-40 wk	41-42 wk
1 d	88.3 (81.9, 93.8)	90.7 (89, 92.4)	84.4 (81.8, 87)	74.6 (67.3, 82)	63.7 (50.4, 77.6)	56.9 (33.3, 83.3)
2 d	90.9 (85.1, 95.5)	93.8 (92.5, 95.1)	89.3 (87.4, 91.2)	84.7 (79.4, 89.9)	69.4 (58.6, 81.2)	66.7 (47.2, 86.1)
3 d	93.9 (89.6, 97.4)	95 (93.8, 96.1)	91.5 (89.7, 93.1)	87.5 (82.7, 91.9)	76.1 (65, 86.9)	81.9 (65.3, 95.8)
4 d	94.2 (89.9, 97.6)	95.3 (94.1, 96.5)	92.7 (91, 94.2)	90.8 (86.1, 94.7)	80.5 (69, 90.8)	87.5 (70.8, 100)
5 d	94.2 (89.9, 97.6)	95.9 (94.8, 97)	93.2 (91.6, 94.7)	92.1 (87.8, 95.8)	80.5 (69, 90.8)	87.5 (70.8, 100)
6 d	94.2 (89.9, 97.6)	96.4 (95.4, 97.4)	94.1 (92.6, 95.6)	93.1 (88.9, 96.5)	83.9 (73.6, 93.1)	91.7 (75, 100)
7 d	95.5 (91.7, 98.7)	96.8 (95.8, 97.7)	94.5 (92.9, 95.9)	95.3 (92, 98)	86.2 (77.6, 94.3)	91.7 (75, 100)
8 d	95.5 (91.7, 98.7)	97 (96, 97.9)	94.9 (93.4, 96.3)	95.3 (92, 98)	86.2 (77.6, 94.3)	91.7 (75, 100)
9 d	96.8 (92.9, 99.4)	97.4 (96.5, 98.3)	95.6 (94.3, 96.9)	95.9 (92.9, 98.5)	89.7 (81.6, 96.6)	91.7 (75, 100)
10 d	97.4 (94.2, 100)	97.4 (96.5, 98.3)	95.9 (94.5, 97.1)	95.9 (92.9, 98.5)	93.7 (85.1, 98.3)	100 (100, 100)
11 d	97.4 (94.2, 100)	97.8 (96.9, 98.6)	96.2 (94.9, 97.4)	95.9 (92.9, 98.5)	93.7 (86.8, 98.9)	100 (100, 100)
12 d	97.4 (94.2, 100)	97.8 (97, 98.6)	97 (95.8, 98)	95.9 (92.9, 98.5)	93.7 (86.8, 98.9)	100 (100, 100)
13 d	97.4 (94.2, 100)	98 (97.1, 98.7)	97.2 (96, 98.2)	95.9 (92.9, 98.5)	93.7 (86.8, 98.9)	100 (100, 100)
14 d	98.1 (94.9, 100)	98.1 (97.4, 98.9)	97.5 (96.4, 98.4)	95.9 (92.9, 98.5)	95.4 (89.7, 100)	100 (100, 100)

SUPPLEMENTAL APPENDIX 1 Continued

Apnea EIR						
PMA of Last Event Categories						
	31-32 wk	33-34 wk	35-36 wk	37-38 wk	39-40 wk	41-42 wk
1 d	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)
2 d	19.6 (1.8, 39.3)	29.6 (22.2, 36.7)	27.1 (20.7, 33.7)	35.2 (21.5, 50.4)	12.9 (3.6, 24.4)	20.8 (0, 41.7)
3 d	42.9 (17.9, 67.9)	41.4 (33.2, 49.3)	40.5 (33, 48.1)	44.4 (29.3, 59.5)	32 (13.2, 51.4)	54.2 (16.7, 87.5)
4 d	44.6 (21.4, 69.6)	46.3 (37.7, 54.7)	48.1 (40, 56.4)	58.8 (43, 74.4)	44.4 (22.5, 68.8)	66.7 (25, 100)
5 d	44.6 (21.4, 69.6)	53 (44.3, 61.4)	51.3 (43, 59.4)	64.5 (48.1, 79.3)	44.4 (22.5, 68.8)	66.7 (25, 100)
6 d	44.6 (21.4, 69.6)	59.1 (50.4, 67.4)	57.9 (49.2, 66)	68.8 (53.1, 83.6)	53.8 (31.3, 75)	75 (25, 100)
7 d	57.1 (28.6, 85.7)	63.2 (54.4, 71.3)	60.3 (51.6, 68.6)	76.6 (61.7, 89.8)	58.1 (36.3, 78.1)	75 (25, 100)
8 d	57.1 (28.6, 85.7)	66.5 (58.3, 74.8)	63.1 (54.6, 71.1)	76.6 (61.7, 89.8)	58.1 (36.3, 78.1)	75 (25, 100)
9 d	71.4 (42.9, 92.9)	71.1 (63.1, 79.3)	69.4 (61.3, 77.2)	79.7 (65.6, 92.2)	70.6 (50.6, 88.1)	75 (25, 100)
10 d	78.6 (57.1, 100)	71.1 (63.1, 79.3)	71.3 (63.2, 78.8)	79.7 (65.6, 92.2)	75 (56.3, 93.8)	100 (100, 100)
11 d	78.6 (57.1, 100)	75.9 (68, 83.1)	74.2 (66.2, 81.6)	79.7 (65.6, 92.2)	78.1 (59.4, 93.8)	100 (100, 100)
12 d	78.6 (57.1, 100)	76.4 (68.6, 83.7)	77.8 (70.2, 84.7)	79.7 (65.6, 92.2)	78.1 (59.4, 93.8)	100 (100, 100)
13 d	78.6 (57.1, 100)	78.3 (70.6, 85)	79 (71.5, 85.9)	79.7 (65.6, 92.2)	78.1 (59.4, 93.8)	100 (100, 100)
14 d	85.7 (64.3, 100)	80.2 (73, 86.8)	81.7 (74.5, 88.3)	79.7 (65.6, 92.2)	84.4 (65.6, 100)	100 (100, 100)
Bradycardia SR						
PMA of Last Event Categories						
	31-32 wk	33-34 wk	35-36 wk	37-38 wk	39-40 wk	41-42 wk
1 d	87.8 (81.6, 93.6)	87.7 (85.8, 89.6)	78.1 (75, 81.1)	67 (59.6, 73.8)	58.8 (45.9, 72.3)	54.2 (30.6, 77.8)
2 d	89.7 (84.2, 94.7)	91.8 (90.4, 93.2)	86.1 (83.9, 88.3)	78 (72.1, 83.4)	72 (60.6, 83)	63.9 (41.7, 86.1)
3 d	92.7 (88.5, 96.6)	93.3 (91.9, 94.6)	89.3 (87.3, 91.1)	83.3 (78, 87.9)	77.8 (67.5, 87.4)	83.3 (61.1, 100)
4 d	92.7 (88.5, 96.6)	94 (92.7, 95.1)	90.8 (88.9, 92.6)	88.2 (83.9, 92.4)	81.6 (71.8, 90.5)	88.9 (66.7, 100)
5 d	92.7 (88.5, 96.6)	95.5 (94.4, 96.4)	92.1 (90.3, 93.7)	90.7 (86.7, 94.4)	85.1 (75, 94)	88.9 (66.7, 100)
6 d	93.2 (88.9, 97)	96.1 (95.1, 97.1)	93.1 (91.4, 94.6)	92.9 (89.2, 96)	86.3 (76.2, 94.6)	88.9 (66.7, 100)

SUPPLEMENTAL APPENDIX 1 Continued

7 d	93.8 (89.7, 97.4)	96.7 (95.6, 97.5)	93.6 (91.9, 95)	93 (89.4, 96.2)	88.1 (80.4, 95.2)	88.9 (66.7, 100)
8 d	93.8 (89.7, 97.4)	97 (96.1, 97.8)	94.1 (92.4, 95.5)	93 (89.4, 96.2)	91.7 (84.5, 98.2)	94.4 (83.3, 100)
9 d	95.5 (91.7, 98.7)	97.3 (96.4, 98.1)	94.4 (92.7, 95.8)	95 (92.1, 97.8)	91.7 (84.5, 98.2)	94.4 (83.3, 100)
10 d	96.2 (92.3, 99.4)	97.3 (96.4, 98.1)	94.9 (93.3, 96.3)	95 (92.1, 97.8)	91.7 (84.5, 98.2)	100 (100, 100)
11 d	96.2 (92.3, 99.4)	97.5 (96.7, 98.3)	95.3 (93.8, 96.6)	96.6 (93.9, 98.8)	93.5 (86.9, 98.8)	100 (100, 100)
12 d	96.2 (92.3, 99.4)	97.7 (96.8, 98.4)	95.7 (94.3, 97)	96.6 (93.9, 98.8)	93.5 (86.9, 98.8)	100 (100, 100)
13 d	96.2 (92.3, 99.4)	97.7 (96.8, 98.4)	96 (94.7, 97.2)	97.6 (95.3, 99.4)	93.5 (86.9, 98.8)	100 (100, 100)
14 d	96.2 (92.3, 99.4)	97.8 (97, 98.5)	96.3 (95.1, 97.5)	97.6 (95.3, 99.4)	95.2 (89.3, 100)	100 (100, 100)
Bradycardia EIR						
PMA of Last Event Categories						
	31-32 wk	33-34 wk	35-36 wk	37-38 wk	39-40 wk	41-42 wk
1 d	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)	0 (0, 0)
2 d	11.9 (0, 25)	29.7 (23.5, 36)	32.8 (27.3, 39)	27.6 (17.1, 38.4)	30.7 (14.4, 48)	20.8 (0, 41.7)
3 d	34.5 (14.3, 54.8)	41.6 (34.8, 48.3)	46.6 (40.3, 53.4)	41.3 (28.7, 53.4)	44.4 (25.9, 63.6)	62.5 (25, 100)
4 d	34.5 (14.3, 54.8)	46.7 (39.9, 53.8)	53.4 (46.7, 60.2)	54.5 (40.5, 67.9)	51.6 (31, 72.4)	75 (25, 100)
5 d	34.5 (14.3, 54.8)	59.9 (52.7, 67.1)	59.2 (52.3, 66.4)	63.1 (49, 76.2)	58.8 (35.3, 82.4)	75 (25, 100)
6 d	38.1 (16.7, 59.5)	65.5 (58.4, 72.3)	65.2 (58.2, 72.2)	71.8 (57.8, 84.3)	61.8 (38.2, 82.4)	75 (25, 100)
7 d	42.9 (17.9, 64.3)	70.4 (63.4, 76.9)	67 (59.9, 74.1)	72.1 (58, 84.5)	64.7 (41.2, 85.3)	75 (25, 100)
8 d	42.9 (17.9, 64.3)	73.9 (67.6, 80.1)	70.3 (63.5, 77.1)	72.1 (58, 84.5)	76.5 (55.9, 94.1)	87.5 (62.5, 100)
9 d	60.7 (35.7, 85.7)	75.9 (69.4, 82.2)	71.8 (65.1, 78.5)	80.4 (67.9, 90.8)	76.5 (55.9, 94.1)	87.5 (62.5, 100)
10 d	67.9 (42.9, 89.3)	75.9 (69.4, 82.2)	74.8 (68.1, 81.2)	80.4 (67.9, 90.8)	76.5 (55.9, 94.1)	100 (100, 100)
11 d	67.9 (42.9, 89.3)	78.7 (72.5, 84.6)	76.5 (70, 82.5)	86.6 (76.4, 95.1)	79.4 (58.8, 94.1)	100 (100, 100)
12 d	67.9 (42.9, 89.3)	79.8 (73.5, 85.6)	78.3 (71.9, 84.2)	86.6 (76.4, 95.1)	79.4 (58.8, 94.1)	100 (100, 100)
13 d	67.9 (42.9, 89.3)	79.8 (73.5, 85.6)	79.6 (73.5, 85.4)	90.8 (82.3, 97.9)	79.4 (58.8, 94.1)	100 (100, 100)
14 d	67.9 (42.9, 89.3)	81.1 (75.1, 86.7)	81.6 (75.8, 87.2)	90.8 (82.3, 97.9)	85.3 (67.6, 100)	100 (100, 100)