**Appendix 1.** Default alarm parameter thresholds in the Neonatal Intensive Care Units (NICUs), Pediatric Intensive Care Units (PICUs), and the Medical-Surgical Units (MSUs) in use during data collection. Parameters at all centers were customizable on an individual patient basis.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hospital A | | | | | | | | | | | | | | | | | | | | |
|  | **NICU** | | | | **PICU and MSU** | | | | | | | | | | | | | | | |
| *<36 w* | | *>36 w* | | *<1 y* | | *1-3 y* | | | | | *4-7 y* | | | *8-14 y* | | | | *>14 y* | |
| HR | 99-221 | | 79-221 | | 100-180 | | 80-150 | | | | | 60-130 | | | 60-110 | | | | 60-100 | |
| RR | 1-121 | | 1-121 | | 25-60 | | 25-60 | | | | | 18-35 | | | 14-24 | | | | 12-20 | |
| O2 | 87-96 | | 92-101 | | 89-105 | | | | | | | | | | | | | | | |
| SBP | 20-120 | | 30-150 | | 60-105 | | 60-105 | | | | | 75-110 | | | 95-125 | | | | 100-130 | |
| DBP | 10-80 | | 20-120 | | 30-65 | | 30-65 | | | | | 40-75 | | | 45-80 | | | | 50-85 | |
| Apnea | 20 seconds | | | | 20 seconds | | | | | | | | | | | | | | | |
| Hospital B | | | | | | | | | | | | | | | | | | | | |
|  | **NICU** | | | | **PICU and MSU** | | | | | | | | | | | | | | | |
|  | | | | *1-6 m* | *6 m-2 y* | | *2-3 y* | | | *3-5 y* | | | *5-9 y* | | *9-12 y* | | | | *>12 y* |
| HR | 100-200 | | | | 100-200 | 75-160 | | | | | | | | | | | | | | 50-120 |
| RR | 30-60 | | | | 30-60 | 10-50 | | | | | | | | | | | | | | 8-40 |
| O2 | 88-100 | | | | 92-100 | | | | | | | | | | | | | | | |
| SBP | 50-70 | | | | 60-118 | 66-126 | | 74-124 | | | 79-119 | | | 80-120 | | 92-132 | | | | 100-140 |
| DBP | 30-45 | | | | 50-70 | 41-91 | | 38-89 | | | 45-85 | | | 53-83 | | 53-83 | | | | 60-90 |
| Apnea | 20 seconds | | | | 20 seconds | | | | | | | | | | | | | | | |
| Hospital C | | | | | | | | | | | | | | | | | | | | |
|  | **NICU** | | | | **PICU and MSU** | | | | | | | | | | | | | | | |
|  | | | | *0-2 y* | | | | | *3-10 y* | | | | | | | *>11 y* | | | |
| HR | 100-200 | | | | 70-200 | | | | | 60-150 | | | | | | | 50-120 | | | |
| RR | 10-100 | | | | 20-60 | | | | | 15-45 | | | | | | | 12-24 | | | |
| O2 | 85-95 | | | | 90-101 | | | | | | | | | | | | | | | |
| SBP | 40-100 | | | | 55-100 | | | | | 90-120 | | | | | | | 110-135 | | | |
| DBP | 20-60 | | | | 40-75 | | | | | 55-75 | | | | | | | 65-85 | | | |
| Apnea | 20 seconds | | | | 20 seconds | | | | | | | | | | | | | | | |
| Hospital D | | | | | | | | | | | | | | | | | | | | |
|  | **NICU** | | | | **PICU and MSU** | | | | | | | | | | | | | | | |
| *0-13 y* | | | | | | | | *>13 y* | | | | | | | |
| HR | 100-200 | | | | 75-160 | | | | | | | | 55-120 | | | | | | | |
| RR | 20-80 | | | | 12-40 | | | | | | | | 8-30 | | | | | | | |
| O2 | 85-95 | | | | 90-100 | | | | | | | | | | | | | | | |
| SBP | 40-90 | | | | 70-120 | | | | | | | | 90-160 | | | | | | | |
| DBP | 20-60 | | | | 20-60 | | | | | | | | 40-70 | | | | | | | |
| Apnea | 20 seconds | | | | 20 seconds | | | | | | | | | | | | | | | |
| Hospital E | | | | | | | | | | | | | | | | | | | | |
|  | **NICU** | | | | **PICU and MSU** | | | | | | | | | | | | | | | |
| *<36 w* | *36 w-term* | *0-6 m* | *6 m-1 y* | *0 – 5 m* | | | | *6 – 11 m* | | | | *1-7 y* | | | | | *>8 y* | | |
| HR | 100-200 | | | 80-180 | 90-200 | | | | 70-190 | | | | 55-150 | | | | | 50-130 | | |
| RR | 20-80 | | | 20-60 | 20-80 | | | | 20-70 | | | | 15-50 | | | | | 12-40 | | |
| O2 | 87-95 | 90-98 | 90-101 | 90-101 | 87-101 | | | | | | | | | | | | | | | |
| SBP | 40-100 | | | | 50-90 | | | | 60-100 | | | | 80-120 | | | | | 90-150 | | |
| DBP | 20-60 | | | | 30-60 | | | | 30-60 | | | | 40-70 | | | | | 70-90 | | |
| Apnea | 15 seconds | | | | 15 seconds | | | | | | | | 20 seconds | | | | | | | |

*W: week; M: month; Y: year; HR: heart rate in beats per minute; RR: respiratory rate in breaths per minute; O2: percentage oxygen saturation as measured by pulse oximetry; SBP: systolic blood pressure in millimeters of mercury; DBP: diastolic blood pressure in millimeters of mercury*