**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.

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| 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*