**Supplemental Table 3.** Age-appropriate artifact detection

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| --- | --- | --- | --- | --- | --- |
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| Age | x2 Systolic NUL | x2 Diastolic NUL | x2 MAP NUL | Abrupt change within 1 minute | Abrupt change within 2 minutes |
| Premature | 130 | 90 | 103 | 16 | 32 |
| 0-3 months | 170 | 110 | 130 | 21 | 42 |
| 3-6 months | 180 | 130 | 146 | 22 | 45 |
| 6-12 months | 200 | 130 | 153 | 25 | 50 |
| 1-3 years | 210 | 140 | 163 | 26 | 52 |
| 3-6 years | 220 | 150 | 173 | 27 | 55 |
| 6-12 years | 240 | 150 | 180 | 30 | 60 |
| >12 years | 270 | 170 | 203 | 33 | 67 |

BP was cleaned by rules in order: 1) blood pressures documented as artifacts; 2) pressures out-of-range defined by (a) SBP ≥ twice the normal upper limit (NUL) for age group or SBP ≤20 mmHg, (b) SBP ≤ DBP + 5 mmHg, or (c) DBP ≤5 mmHg or DBP ≥ twice the NUL for age group (d) MAP < 15 mmHg or MAP ≥ twice the normal upper limit (NUL) for age group ; 3) abrupt changes defined by SBP change ≥ 50% of SBP NUL for age group within 2 minutes in both directions (both changes from last 2 minutes and to next 2 minutes had abrupt change) or abrupt SBP changes ≥ 25% of SBP NUL within 1 minute in both directions (both changes from last minute and next minute had abrupt change) and the direction was opposite.

BP= blood pressure; SBP= systolic blood pressure; DBP= diastolic blood pressure; MAP=mean arterial pressure; NUL= normal upper limit