Table 3a. Blood Pressure Values by Age and Height Percentile for Boys

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age**  **(y)** | **Blood Pressure**  **Percentile** | **Systolic Blood Pressure (mmHg)** | | | | | | | **Diastolic Blood Pressure (mmHg)** | | | | | | |
| **Height Percentile or Measured Height** | | | | | | | **Height Percentile or Measured Height** | | | | | | |
| **5%** | **10%** | **25%** | **50%** | **75%** | **90%** | **95%** | **5%** | **10%** | **25%** | **50%** | **75%** | **90%** | **95%** |
|  | Height (in) | 30.4 | 30.8 | 31.6 | 32.4 | 33.3 | 34.1 | 34.6 | 30.4 | 30.8 | 31.6 | 32.4 | 33.3 | 34.1 | 34.6 |
|  | Height (cm) | 77.2 | 78.3 | 80.2 | 82.4 | 84.6 | 86.7 | 87.9 | 77.2 | 78.3 | 80.2 | 82.4 | 84.6 | 86.7 | 87.9 |
| 1 | 50th | 85 | 85 | 86 | 86 | 87 | 88 | 88 | 40 | 40 | 40 | 41 | 41 | 42 | 42 |
|  | 90th | 98 | 99 | 99 | 100 | 100 | 101 | 101 | 52 | 52 | 53 | 53 | 54 | 54 | 54 |
|  | 95th | 102 | 102 | 103 | 103 | 104 | 105 | 105 | 54 | 54 | 55 | 55 | 56 | 57 | 57 |
|  | 95th + 12 mmHg | 114 | 114 | 115 | 115 | 116 | 117 | 117 | 66 | 66 | 67 | 67 | 68 | 69 | 69 |
|  | Height (in) | 33.9 | 34.4 | 35.3 | 36.3 | 37.3 | 38.2 | 38.8 | 33.9 | 34.4 | 35.3 | 36.3 | 37.3 | 38.2 | 38.8 |
|  | Height (cm) | 86.1 | 87.4 | 89.6 | 92.1 | 94.7 | 97.1 | 98.5 | 86.1 | 87.4 | 89.6 | 92.1 | 94.7 | 97.1 | 98.5 |
| 2 | 50th | 87 | 87 | 88 | 89 | 89 | 90 | 91 | 43 | 43 | 44 | 44 | 45 | 46 | 46 |
|  | 90th | 100 | 100 | 101 | 102 | 103 | 103 | 104 | 55 | 55 | 56 | 56 | 57 | 58 | 58 |
|  | 95th | 104 | 105 | 105 | 106 | 107 | 107 | 108 | 57 | 58 | 58 | 59 | 60 | 61 | 61 |
|  | 95th + 12 mmHg | 116 | 117 | 117 | 118 | 119 | 119 | 120 | 69 | 70 | 70 | 71 | 72 | 73 | 73 |
|  | Height (in) | 36.4 | 37 | 37.9 | 39 | 40.1 | 41.1 | 41.7 | 36.4 | 37 | 37.9 | 39 | 40.1 | 41.1 | 41.7 |
|  | Height (cm) | 92.5 | 93.9 | 96.3 | 99 | 101.8 | 104.3 | 105.8 | 92.5 | 93.9 | 96.3 | 99 | 101.8 | 104.3 | 105.8 |
| 3 | 50th | 88 | 89 | 89 | 90 | 91 | 92 | 92 | 45 | 46 | 46 | 47 | 48 | 49 | 49 |
|  | 90th | 101 | 102 | 102 | 103 | 104 | 105 | 105 | 58 | 58 | 59 | 59 | 60 | 61 | 61 |
|  | 95th | 106 | 106 | 107 | 107 | 108 | 109 | 109 | 60 | 61 | 61 | 62 | 63 | 64 | 64 |
|  | 95th + 12 mmHg | 118 | 118 | 119 | 119 | 120 | 121 | 121 | 72 | 73 | 73 | 74 | 75 | 76 | 76 |
|  | Height (in) | 38.8 | 39.4 | 40.5 | 41.7 | 42.9 | 43.9 | 44.5 | 38.8 | 39.4 | 40.5 | 41.7 | 42.9 | 43.9 | 44.5 |
|  | Height (cm) | 98.5 | 100.2 | 102.9 | 105.9 | 108.9 | 111.5 | 113.2 | 98.5 | 100.2 | 102.9 | 105.9 | 108.9 | 111.5 | 113.2 |
| 4 | 50th | 90 | 90 | 91 | 92 | 93 | 94 | 94 | 48 | 49 | 49 | 50 | 51 | 52 | 52 |
|  | 90th | 102 | 103 | 104 | 105 | 105 | 106 | 107 | 60 | 61 | 62 | 62 | 63 | 64 | 64 |
|  | 95th | 107 | 107 | 108 | 108 | 109 | 110 | 110 | 63 | 64 | 65 | 66 | 67 | 67 | 68 |
|  | 95th + 12 mmHg | 119 | 119 | 120 | 120 | 121 | 122 | 122 | 75 | 76 | 77 | 78 | 79 | 79 | 80 |
|  | Height (in) | 41.1 | 41.8 | 43.0 | 44.3 | 45.5 | 46.7 | 47.4 | 41.1 | 41.8 | 43.0 | 44.3 | 45.5 | 46.7 | 47.4 |
|  | Height (cm) | 104.4 | 106.2 | 109.1 | 112.4 | 115.7 | 118.6 | 120.3 | 104.4 | 106.2 | 109.1 | 112.4 | 115.7 | 118.6 | 120.3 |
| 5 | 50th | 91 | 92 | 93 | 94 | 95 | 96 | 96 | 51 | 51 | 52 | 53 | 54 | 55 | 55 |
|  | 90th | 103 | 104 | 105 | 106 | 107 | 108 | 108 | 63 | 64 | 65 | 65 | 66 | 67 | 67 |
|  | 95th | 107 | 108 | 109 | 109 | 110 | 111 | 112 | 66 | 67 | 68 | 69 | 70 | 70 | 71 |
|  | 95th + 12 mmHg | 119 | 120 | 121 | 121 | 122 | 123 | 124 | 78 | 79 | 80 | 81 | 82 | 82 | 83 |
|  | Height (in) | 43.4 | 44.2 | 45.4 | 46.8 | 48.2 | 49.4 | 50.2 | 43.4 | 44.2 | 45.4 | 46.8 | 48.2 | 49.4 | 50.2 |
|  | Height (cm) | 110.3 | 112.2 | 115.3 | 118.9 | 122.4 | 125.6 | 127.5 | 110.3 | 112.2 | 115.3 | 118.9 | 122.4 | 125.6 | 127.5 |
| 6 | 50th | 93 | 93 | 94 | 95 | 96 | 97 | 98 | 54 | 54 | 55 | 56 | 57 | 57 | 58 |
|  | 90th | 105 | 105 | 106 | 107 | 109 | 110 | 110 | 66 | 66 | 67 | 68 | 68 | 69 | 69 |
|  | 95th | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 69 | 70 | 70 | 71 | 72 | 72 | 73 |
|  | 95th + 12 mmHg | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 81 | 82 | 82 | 83 | 84 | 84 | 85 |
| 7 | Height (in) | 45.7 | 46.5 | 47.8 | 49.3 | 50.8 | 52.1 | 52.9 | 45.7 | 46.5 | 47.8 | 49.3 | 50.8 | 52.1 | 52.9 |
| Height (cm) | 116.1 | 118 | 121.4 | 125.1 | 128.9 | 132.4 | 134.5 | 116.1 | 118 | 121.4 | 125.1 | 128.9 | 132.4 | 134.5 |
| 50th | 94 | 94 | 95 | 97 | 98 | 98 | 99 | 56 | 56 | 57 | 58 | 58 | 59 | 59 |
| 90th | 106 | 107 | 108 | 109 | 110 | 111 | 111 | 68 | 68 | 69 | 70 | 70 | 71 | 71 |
| 95th | 110 | 110 | 111 | 112 | 114 | 115 | 116 | 71 | 71 | 72 | 73 | 73 | 74 | 74 |
| 95th + 12 mmHg | 122 | 122 | 123 | 124 | 126 | 127 | 128 | 83 | 83 | 84 | 85 | 85 | 86 | 86 |
|  | Height (in) | 47.8 | 48.6 | 50 | 51.6 | 53.2 | 54.6 | 55.5 | 47.8 | 48.6 | 50 | 51.6 | 53.2 | 54.6 | 55.5 | |
|  | Height (cm) | 121.4 | 123.5 | 127 | 131 | 135.1 | 138.8 | 141 | 121.4 | 123.5 | 127 | 131 | 135.1 | 138.8 | 141 | |
| 8 | 50th | 95 | 96 | 97 | 98 | 99 | 99 | 100 | 57 | 57 | 58 | 59 | 59 | 60 | 60 | |
|  | 90th | 107 | 108 | 109 | 110 | 111 | 112 | 112 | 69 | 70 | 70 | 71 | 72 | 72 | 73 | |
|  | 95th | 111 | 112 | 112 | 114 | 115 | 116 | 117 | 72 | 73 | 73 | 74 | 75 | 75 | 75 | |
|  | 95th + 12 mmHg | 123 | 124 | 124 | 126 | 127 | 128 | 129 | 84 | 85 | 85 | 86 | 87 | 87 | 87 | |
|  | Height (in) | 49.6 | 50.5 | 52 | 53.7 | 55.4 | 56.9 | 57.9 | 49.6 | 50.5 | 52 | 53.7 | 55.4 | 56.9 | 57.9 | |
|  | Height (cm) | 126 | 128.3 | 132.1 | 136.3 | 140.7 | 144.7 | 147.1 | 126 | 128.3 | 132.1 | 136.3 | 140.7 | 144.7 | 147.1 | |
| 9 | 50th | 96 | 97 | 98 | 99 | 100 | 101 | 101 | 57 | 58 | 59 | 60 | 61 | 62 | 62 | |
|  | 90th | 107 | 108 | 109 | 110 | 112 | 113 | 114 | 70 | 71 | 72 | 73 | 74 | 74 | 74 | |
|  | 95th | 112 | 112 | 113 | 115 | 116 | 118 | 119 | 74 | 74 | 75 | 76 | 76 | 77 | 77 | |
|  | 95th + 12 mmHg | 124 | 124 | 125 | 127 | 128 | 130 | 131 | 86 | 86 | 87 | 88 | 88 | 89 | 89 | |
| **Age**  **(y)** | **Blood Pressure**  **Percentile** | **Systolic Blood Pressure (mmHg)** | | | | | | | **Diastolic Blood Pressure (mmHg)** | | | | | | |
| **Height Percentile or Measured Height** | | | | | | | **Height Percentile or Measured Height** | | | | | | |
| **5%** | **10%** | **25%** | **50%** | **75%** | **90%** | **95%** | **5%** | **10%** | **25%** | **50%** | **75%** | **90%** | **95%** |
|  | Height (in) | 51.3 | 52.2 | 53.8 | 55.6 | 57.4 | 59.1 | 60.1 | 51.3 | 52.2 | 53.8 | 55.6 | 57.4 | 59.1 | 60.1 |
|  | Height (cm) | 130.2 | 132.7 | 136.7 | 141.3 | 145.9 | 150.1 | 152.7 | 130.2 | 132.7 | 136.7 | 141.3 | 145.9 | 150.1 | 152.7 |
| 10 | 50th | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 59 | 60 | 61 | 62 | 63 | 63 | 64 |
|  | 90th | 108 | 109 | 111 | 112 | 113 | 115 | 116 | 72 | 73 | 74 | 74 | 75 | 75 | 76 |
|  | 95th | 112 | 113 | 114 | 116 | 118 | 120 | 121 | 76 | 76 | 77 | 77 | 78 | 78 | 78 |
|  | 95th + 12 mmHg | 124 | 125 | 126 | 128 | 130 | 132 | 133 | 88 | 88 | 89 | 89 | 90 | 90 | 90 |
|  | Height (in) | 53 | 54 | 55.7 | 57.6 | 59.6 | 61.3 | 62.4 | 53 | 54 | 55.7 | 57.6 | 59.6 | 61.3 | 62.4 |
|  | Height (cm) | 134.7 | 137.3 | 141.5 | 146.4 | 151.3 | 155.8 | 158.6 | 134.7 | 137.3 | 141.5 | 146.4 | 151.3 | 155.8 | 158.6 |
| 11 | 50th | 99 | 99 | 101 | 102 | 103 | 104 | 106 | 61 | 61 | 62 | 63 | 63 | 63 | 63 |
|  | 90th | 110 | 111 | 112 | 114 | 116 | 117 | 118 | 74 | 74 | 75 | 75 | 75 | 76 | 76 |
|  | 95th | 114 | 114 | 116 | 118 | 120 | 123 | 124 | 77 | 78 | 78 | 78 | 78 | 78 | 78 |
|  | 95th + 12 mmHg | 126 | 126 | 128 | 130 | 132 | 135 | 136 | 89 | 90 | 90 | 90 | 90 | 90 | 90 |
|  | Height (in) | 55.2 | 56.3 | 58.1 | 60.1 | 62.2 | 64 | 65.2 | 55.2 | 56.3 | 58.1 | 60.1 | 62.2 | 64 | 65.2 |
|  | Height (cm) | 140.3 | 143 | 147.5 | 152.7 | 157.9 | 162.6 | 165.5 | 140.3 | 143 | 147.5 | 152.7 | 157.9 | 162.6 | 165.5 |
| 12 | 50th | 101 | 101 | 102 | 104 | 106 | 108 | 109 | 61 | 62 | 62 | 62 | 62 | 63 | 63 |
|  | 90th | 113 | 114 | 115 | 117 | 119 | 121 | 122 | 75 | 75 | 75 | 75 | 75 | 76 | 76 |
|  | 95th | 116 | 117 | 118 | 121 | 124 | 126 | 128 | 78 | 78 | 78 | 78 | 78 | 79 | 79 |
|  | 95th + 12 mmHg | 128 | 129 | 130 | 133 | 136 | 138 | 140 | 90 | 90 | 90 | 90 | 90 | 91 | 91 |
|  | Height (in) | 57.9 | 59.1 | 61 | 63.1 | 65.2 | 67.1 | 68.3 | 57.9 | 59.1 | 61 | 63.1 | 65.2 | 67.1 | 68.3 |
|  | Height (cm) | 147 | 150 | 154.9 | 160.3 | 165.7 | 170.5 | 173.4 | 147 | 150 | 154.9 | 160.3 | 165.7 | 170.5 | 173.4 |
| 13 | 50th | 103 | 104 | 105 | 108 | 110 | 111 | 112 | 61 | 60 | 61 | 62 | 63 | 64 | 65 |
|  | 90th | 115 | 116 | 118 | 121 | 124 | 126 | 126 | 74 | 74 | 74 | 75 | 76 | 77 | 77 |
|  | 95th | 119 | 120 | 122 | 125 | 128 | 130 | 131 | 78 | 78 | 78 | 78 | 80 | 81 | 81 |
|  | 95th + 12 mmHg | 131 | 132 | 134 | 137 | 140 | 142 | 143 | 90 | 90 | 90 | 90 | 92 | 93 | 93 |
|  | Height (in) | 60.6 | 61.8 | 63.8 | 65.9 | 68.0 | 69.8 | 70.9 | 60.6 | 61.8 | 63.8 | 65.9 | 68.0 | 69.8 | 70.9 |
|  | Height (cm) | 153.8 | 156.9 | 162 | 167.5 | 172.7 | 177.4 | 180.1 | 153.8 | 156.9 | 162 | 167.5 | 172.7 | 177.4 | 180.1 |
| 14 | 50th | 105 | 106 | 109 | 111 | 112 | 113 | 113 | 60 | 60 | 62 | 64 | 65 | 66 | 67 |
|  | 90th | 119 | 120 | 123 | 126 | 127 | 128 | 129 | 74 | 74 | 75 | 77 | 78 | 79 | 80 |
|  | 95th | 123 | 125 | 127 | 130 | 132 | 133 | 134 | 77 | 78 | 79 | 81 | 82 | 83 | 84 |
|  | 95th + 12 mmHg | 135 | 137 | 139 | 142 | 144 | 145 | 146 | 89 | 90 | 91 | 93 | 94 | 95 | 96 |
|  | Height (in) | 62.6 | 63.8 | 65.7 | 67.8 | 69.8 | 71.5 | 72.5 | 62.6 | 63.8 | 65.7 | 67.8 | 69.8 | 71.5 | 72.5 |
|  | Height (cm) | 159 | 162 | 166.9 | 172.2 | 177.2 | 181.6 | 184.2 | 159 | 162 | 166.9 | 172.2 | 177.2 | 181.6 | 184.2 |
| 15 | 50th | 108 | 110 | 112 | 113 | 114 | 114 | 114 | 61 | 62 | 64 | 65 | 66 | 67 | 68 |
|  | 90th | 123 | 124 | 126 | 128 | 129 | 130 | 130 | 75 | 76 | 78 | 79 | 80 | 81 | 81 |
|  | 95th | 127 | 129 | 131 | 132 | 134 | 135 | 135 | 78 | 79 | 81 | 83 | 84 | 85 | 85 |
|  | 95th + 12 mmHg | 139 | 141 | 143 | 144 | 146 | 147 | 147 | 90 | 91 | 93 | 95 | 96 | 97 | 97 |
|  | Height (in) | 63.8 | 64.9 | 66.8 | 68.8 | 70.7 | 72.4 | 73.4 | 63.8 | 64.9 | 66.8 | 68.8 | 70.7 | 72.4 | 73.4 |
|  | Height (cm) | 162.1 | 165 | 169.6 | 174.6 | 179.5 | 183.8 | 186.4 | 162.1 | 165 | 169.6 | 174.6 | 179.5 | 183.8 | 186.4 |
| 16 | 50th | 111 | 112 | 114 | 115 | 115 | 116 | 116 | 63 | 64 | 66 | 67 | 68 | 69 | 69 |
|  | 90th | 126 | 127 | 128 | 129 | 131 | 131 | 132 | 77 | 78 | 79 | 80 | 81 | 82 | 82 |
|  | 95th | 130 | 131 | 133 | 134 | 135 | 136 | 137 | 80 | 81 | 83 | 84 | 85 | 86 | 86 |
|  | 95th + 12 mmHg | 142 | 143 | 145 | 146 | 147 | 148 | 149 | 92 | 93 | 95 | 96 | 97 | 98 | 98 |
|  | Height (in) | 64.5 | 65.5 | 67.3 | 69.2 | 71.1 | 72.8 | 73.8 | 64.5 | 65.5 | 67.3 | 69.2 | 71.1 | 72.8 | 73.8 |
|  | Height (cm) | 163.8 | 166.5 | 170.9 | 175.8 | 180.7 | 184.9 | 187.5 | 163.8 | 166.5 | 170.9 | 175.8 | 180.7 | 184.9 | 187.5 |
| 17 | 50th | 114 | 115 | 116 | 117 | 117 | 118 | 118 | 65 | 66 | 67 | 68 | 69 | 70 | 70 |
|  | 90th | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 78 | 79 | 80 | 81 | 82 | 82 | 83 |
|  | 95th | 132 | 133 | 134 | 135 | 137 | 138 | 138 | 81 | 82 | 84 | 85 | 86 | 86 | 87 |
|  | 95th + 12 mmHg | 144 | 145 | 146 | 147 | 149 | 150 | 150 | 93 | 94 | 96 | 97 | 98 | 98 | 99 |

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