

Recommended maximum allowable blood draw volumes:

| PATIENT'S WEIGHT | | PATIENT'S TOTAL VOLUME | MAXIMUM AMOUNT PER BLOOD DRAW or 24 HOUR PERIOD |
|------------------|--------------|------------------------|---|
| kg | lbs | mL | 2.5 mL/ kg/ day |
| 1 | 2.2 | 100 | 2.5 |
| 2 | 4.4 | 200 | 5 |
| 3 | 6.6 | 240 | 7.5 |
| 4 | 8.8 | 320 | 10 |
| 5 | 11 | 400 | 12.5 |
| 6 | 13.2 | 480 | 15 |
| 7 | 15.4 | 560 | 17.5 |
| 8 | 17.6 | 640 | 20 |
| 9 | 19.8 | 720 | 22.5 |
| 10 | 22 | 800 | 25 |
| 11 thru 15 | 24 thru 33 | 880-1200 | 27.5 - 37.5 |
| 16 thru 20 | 35 thru 44 | 1280-1600 | 40 - 50 |
| 21 thru 25 | 46 thru 55 | 1680-2000 | 52.5 - 62.5 |
| 26 thru 30 | 57 thru 66 | 2080-2400 | 65 - 75 |
| 31 thru 35 | 68 thru 77 | 2480-2800 | 77.5 - 87.5 |
| 36 thru 40 | 79 thru 88 | 2880-3200 | 90 - 100 |
| 41 thru 45 | 90 thru 99 | 3280-3600 | 102.5 - 112.5 |
| 46 thru 50 | 101 thru 110 | 3680-4000 | 115 - 125 |
| 51 thru 55 | 112 thru 121 | 4080-4400 | 127.5 - 137.5 |
| 56 thru 60 | 123 thru 132 | 4480-4800 | 140 - 150 |
| 61 thru 65 | 134 thru 143 | 4880-5200 | 152.5 - 162.5 |
| 66 thru 70 | 145 thru 154 | 5280-5600 | 165 - 175 |
| 71 thru 75 | 156 thru 165 | 5680-6000 | 177.5 - 187.5 |
| 76 thru 80 | 167 thru 176 | 6080-6400 | 190 - 200 |
| 81 thru 85 | 178 thru 187 | 6480-6800 | 202.5 - 212.5 |
| 86 thru 90 | 189 thru 198 | 6880-7200 | 215 - 225 |
| 91 thru 95 | 200 thru 209 | 7280-7600 | 227.5 - 237.5 |
| 96 thru 100 | 211 thru 220 | 7680-8000 | 240 - 250 |

Patients blood volume base on:

1 to 2 kg

100 mL/kg

(pre-term infant)

>2 kg

80 mL/kg

(term infant - adult)

Blood draw volumes per day should be limited to 2.5 mL/kg/day and should not exceed 4 mL/kg/day

Please refer to Central Venous Catheter (CVC) Management for guidance on daily maximum blood collection volumes.

Blood sample volumes in child health research: review of safe limits, Howie, Stehen RC

[Bull World Health Organ. 2011 Jan 1; 89\(1\): 46-53.](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3040020/>

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