

Maximum Blood Draw for Pediatric Patients in a 24 Hour Period

Pediatric patients have much smaller blood volumes than adults. Drawing too much blood from a pediatric patient may result in harm to the patient resulting in further medical intervention.

Weight (kgs)	Weight (lbs)	Maximum Volume (mls) in 24 hours
1.8 - 2.7	4 - 5	1.0
2.7 - 3.6	6 - 8	2.5
3.6 - 4.5	8 - 10	3.5
4.5 – 6.8	10 - 15	5.0
6.8 – 18.6	16 - 41	10.0
18.6 – 27.7	41 - 60	20.0
27.7 – 45.5	60 - 100	30.0

If a request for blood collection exceeds the maximum volume amount, the phlebotomist must obtain permission from the child's physician or nurse to exceed the maximum amount.	
If permission	Then
is granted	The phlebotomist must make a note on the requisition indicating the physician/nurse's name and the date and time.
is denied	<p>Determine from the physician which tests should be drawn at this time (if any).</p> <p>Collect only those tests, following the protocol above.</p> <p>For all other tests that were not collected, order tests, then cancel with comment attached:</p> <ul style="list-style-type: none"> • Collection of blood specimens on this patient would exceed the maximum allowable volume allowed. <p>Notification given to (physician/nurse's name) by (initials) at (date and time of notification).</p>

References

Becan-McBride, K. *Textbook of Clinical Laboratory Supervision*. Adapted from 3rd Edition. New York: Appleton Century Crofts. 2002.

Calgary Lab Services. *Maximum Blood Draw on Patients Weighing Less than 45 kg (100 lb)*. Sept 9, 2009.

http://www.calgarylabservices.com/files/HealthcareProfessionals/Specimen_Collection/MaxBloodPatientsLessThan45kg.pdf

Capital Health Regional Lab Services. *Maximum Blood Draw Protocol for Pediatric Patients*. Aug 20, 2007.

<http://www.capitalhealth.ca/nr/rdonlyres/ejhjx54twowxcol2u2ggycclj5vsoe6butgsukfyhvxlh56np64zyiw3pi5iw2cucbrznxfjbl75m4yjyxuqzbh7h/maximumblooddrawprotocolforpediatricpatients.pdf>