



Dayton Children's Hospital
Once Children's Plaza Dayton OH 45404

Phlebotomy Manual

VOLUME GUIDELINES FOR BLOOD COLLECTION

I. Purpose:

The following guidelines were taken from Procedure for the Collection of Diagnostic Blood Specimens by Venipuncture: Approved Standard-4th edition 6/98, NCCLS, Doc. No.:H3-A4, Vol 18 No. 7

II. Procedure:

- A. Use the following guidelines to determine maximum blood volumes permitted to be drawn from patients age 0 to 14 years:

Patient Weight (lb)	Patient Weight Kg (approximate)	Maximum blood 1 time draw in mls.
2.0-2.4	0.9-1.1	0.9
2.4-2.9	1.1-1.3	1.1
2.9-3.6	1.3-1.6	1.3
3.6-4.7	1.6-2.1	1.6
4.7-6.0	2.1-2.7	2.1
6.0-8.0	2.7-3.6	2.5
8-10	3.6-4.5	3.5
10-15	4.5-6.8	5.0
16-20	7.3-9.1	10
21-25	9.5-11.4	10
26-30	11.8-13.6	10
31-35	14.1-15.9	10
36-40	16.4-18.2	10
41-45	18.6-20.5	20
46-50	20.9-22.7	20
51-55	23.2-25.0	20
56-60	25.5-27.3	20
61-65	27.7-29.5	25
66-70	30.0-31.8	30
71-75	32.3-34.1	30
76-80	34.5-36.4	30
81-85	36.8-38.6	30
86-90	39.1-40.9	30
91-95	41.4-43.2	30
96-100	43.6-45.5	30

1. For the Neonatal Intensive Care Unit (NICU)
- a. Guidelines established in the NICU states that 1-2% blood loss is a safe amount for (1) time blood draws.
 - b. Phlebotomy will use the established guidelines set forth when drawing any NICU patient. When the amount required for tests ordered seems to be excessive the Phlebotomist will consult with the nurse caring for that patient. If



it is determined by physician that amount of blood to be drawn for tests ordered is acceptable, the physician will fill out “Blood Collection Authorization Form” and placed on patient’s chart.

2. For all other patients (Referral Outpatient and Non-NICU Inpatients)
 - c. Guidelines established by the Hematology/Oncology department states that a 10% blood loss is safe for a (1) time blood draw.
 - d. Phlebotomy will use the established guidelines set forth when drawing any inpatient. When the amount required for tests ordered seems to be excessive the phlebotomist will consult with the nurse caring for that patient.
 - e. When a Phlebotomist has a questionable amount of blood to draw on an outpatient, the phlebotomist will take the patient to the ED to be weighed. The phlebotomist will use the above guidelines to determine the maximum amount of blood to be drawn in accordance with patient’s weight.
 - f. If required amount of blood needed to perform tests ordered exceed the allowable limit, you must contact the ordering physician for authorization to prioritize testing or authorize phlebotomist to draw the entire amount of blood for testing.
 - g. Phlebotomist will fax “Blood Collection Authorization Form” to physician office for signature. The signed form will be faxed back to the lab and stapled to order form to be filed.



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BLOOD COLLECTION AUTHORIZATION FORM

Patient's Name:

Date: _____

Time: _____

Ordering Physician:

Tests Ordered: _____

Tests Performed: __

Physician Signature:

Phlebotomist: _____