

HEMATOLOGY LAB

BLOOD COLLECTION AND PROCESSING IN HEMATOLOGY LABORATORY

PATIENT IDENTIFICATION

- Identify patient by asking him/her to state and spell their full name
- Most critical step in blood collection.

MORTAL SIN OF PHLEBOTOMIST:

PHYSIOLOGIC FACTORS AFFECTING TEST RESULTS

- Posture
- Diurnal rhythm
- Stress
- Exercise
- Diet
- Smoking

METHODS OF BLOOD COLLECTION

A. SKIN PUNCTURE

- Blood sample collected is a mixture of capillary, venous, and arterial blood with interstitial and intracellular fluid

Different from venous blood because of admixing of tissue juice which leads to the following:

Decreased: Hematocrit, Hemoglobin, RBC count and Platelet count

Increased: WBC count

SITES OF SKIN PUNCTURE

- **FINGER (middle or ring):** lateral palmar surface of the non-dominant hand perpendicular to the fingerprints
- **EARLOBE:** less free nerve ending, hence less pain and less tissue juice
- **<1 Year old:** lateral portion of the plantar surface of heel or big toe.



MICROSAMPLE TECHNIQUE

Blood collection by skin puncture and is frequently used on the following types of patient:

Infant less than 6 months of age – generally do not have a large blood supply (dangerous to remove the volume of blood involved in venipuncture).

Young children – for small amount of blood needed (preferably finger)

Adult – poor veins, patient with intravenous infusion, and severely burned patient

SITES TO BE AVOIDED

- Inflamed and pallor areas
- Cold and cyanotic areas
- Congested and edematous areas
- Scarred and heavily calloused areas

Advantages Of Skin Puncture Using The Finger

- Easily accessible to the operator
- Easy to manipulate
- Ideal for peripheral blood smears
- Less intimidating

Advantages Of Skin Puncture Using The Earlobe

- Less painful
- more free flow of blood
- less tissue juice contamination of blood
- ideal when searching for abnormal cells (leukocytes in bacterial endocarditis)

Disadvantages Of Skin Puncture

- Less amount of blood can be obtained
- Additional and repeated tests cannot be done
- Blood obtained by skin puncture hemolyze easily

PUNCTURING DEVICES

NEEDLES

- **Glover's Needle** – 3 cornered, short and stout needle.
- **Hagedorn Needle** – a large needle with a cord at the other end

BLADES

- Bard Parker Blade #1
- Scalpel Blade

LANCETS

Lab Techniques Hematology

Tobias Bleicker



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