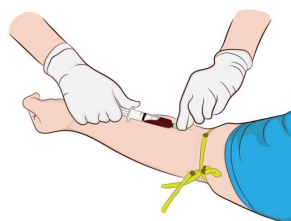




Blood Withdrawing Techniques

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Blood withdrawing and Cannulation:

Aim of the experiment:

- To study the different methods of:
- ✓ Blood collection and administrations of drug and fluid

Apparatus Required:

- Sterile lancet,
- Disposable syringe and needle
- Anticoagulant container,
- Cotton,
- Spirit (alcohol).



2

Blood withdrawing: Procedure:

Collection of Capillary Blood:

Finger Prick Method:

1. Clean the tip of the finger with a cotton swab dipped in spirit.
2. Allow the finger tip to dry (to prevent **hemolysis** and **pain**).
3. Using a sterile lancet prick the finger deep enough to ensure a free flow of blood.
4. Wipe out the first few drops and collect the sample when the blood is flowing spontaneously.
 - **Do not squeeze the finger** as tissue fluid can mix with blood and may cause error.

3

Blood withdrawing: Procedure:

Collection of Venous Blood:

- Venous blood is usually collected from **antecubital vein**.
- Clean the antecubital fossa with spirit and allow it to dry.
- After applying a tourniquet around the upper arm, introduce a needle under the skin and then puncture the vein from the side.

During this procedure, open and close the fist repeatedly so that the vein gets engorged.

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Blood withdrawing: Procedure:

Collection of Venous Blood: Cont....

- When the blood flows into the syringe, release the tourniquet and draw the required amount of blood.
- Withdraw the needle and apply a cotton swab over the site of puncture and apply pressure till the bleeding stops.



5

Blood withdrawing: Procedure:

Collection of Venous Blood: Cont....

- To prepare serum, blood can be emptied into a container **without anticoagulant**.
- To prepare plasma, blood has to be emptied into a container **with anticoagulant**.



6

Take into account:

- Open the lancet carefully and place it on a clean surface. **Do not touch the tip of lancet.**
- Wipe out the tip of your middle or ring finger with the spirit and allow the spirit to evaporate by itself. **Do not blow to dry.**
- Support the finger by applying a gentle pressure on the sides with your thumb and index finger. **Do not touch the pricking area.**



7

Take into account:

- Prick the finger with lancet in a single attempt to a depth of ~3-4mm.
- Allow the blood to flow spontaneously (**Do not squeeze the finger**).
- Wipe out the first 2 drops of blood with sterile gauze.
- Allow a fresh drop to form and use it for the given experiment.



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Questions/Comments

