## **Preparation of blood smear**

## Leb 10

## **Blood drawing**

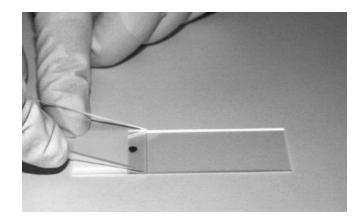
- 1. Label pre-cleaned slides with patient's name (or other identifier), date, and time of collection.
- 2. Wear gloves.
- 3. Do <u>*NOT*</u> touch the surface of the slide where the blood smear will be made.
- 4. Select the finger to puncture. In infants, puncture the heel.
- 5. Clean the area to be punctured with 70% alcohol; allow drying.
- 6. Puncture the **ball** of the finger with a sterilized lancet.
- 7. Wipe away the first drop of blood with clean cotton.
- 8. Touch the next drop of blood with a clean slide. If blood does not well up, gently squeeze the finger.

## **Slide preparation**

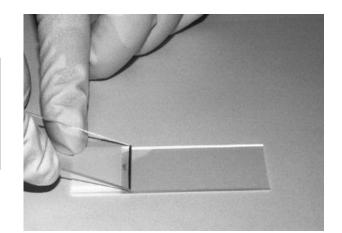
1. Placing a small drop of blood on a glass microscope slide.

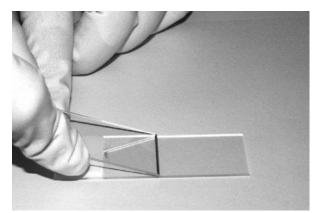


 A spreader slide has been positioned at a
45 angle and slowly drawn toward the drop of blood.



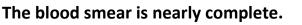
3. The spreader slide has been brought in contact with the drop of blood. Note layer of blood at the edge of the spreader slide.





4. The spreader slide is further pulled out, leaving a thin layer of blood behind.

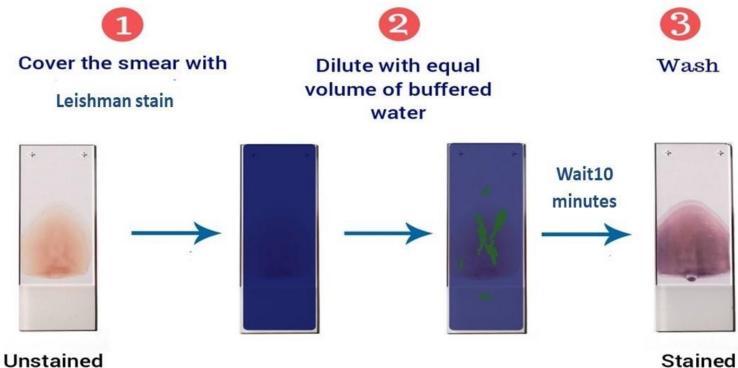
5. The blood smear is nearly complete.





- 6. Fixation by methanol, wait until dry.
- 7. Stain the smear via Leishman stain (counted dropper & wait 2 minutes), and dilute with water (the same drop as a stain), wait for 4 minutes.
- 8. Wash gently the stained slide via tap water for 30 seconds.





smear

Stained smear

9. Dry the slide at room temperature, then use a microscope (400X) to find each types of leukocyte.

