



FECAL OCCULT BLOOD TEST (FOBT)

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Grade -3- fall semester Week number

Parasitology

Practical lec-5

Fecal occult blood(FOB)

- 1.The **FOB cassette** is a rapid visual immunoassay for the **qualitative**,
- 2.presumptive detection of **human hemoglobin** in human fecal specimens which called **guaiac stool**.
- 3.This kit is intended for use as an aid in the diagnosis of gastrointestinal pathologies

4. The **FOB** Rapid Test Device (Feces) is designed especially to detect human hemoglobin in fecal specimens using immunochemical methods, improving specificity for the detection of **gastrointestinal disorders**, including **colorectal cancers** and **adenomas** (adenoma is a **polyp** in the **colon**).

5. The **FOB cassette** detects human **hemoglobin** through visual interpretation of color development on the internal strip.



6. **Anti-human hemoglobin** antibodies are immobilized on the test region of the membrane

7. During testing, the specimen reacts with colored **anti-human hemoglobin antibody-colloidal** conjugates precoated on the sample pad of the test. The mixture then migrates through the membrane by capillary action and interacts with the C and T reagents on the membrane.

8. If there is sufficient human hemoglobin in the specimen, a colored line will form at the test region of the membrane.

9. The presence of this **colored** line indicates a **positive result**, while its absence indicates a **negative result**.

10. The appearance of a **colored band** at the control region serves as a procedural control, indicating that the proper volume of specimen has been added.



