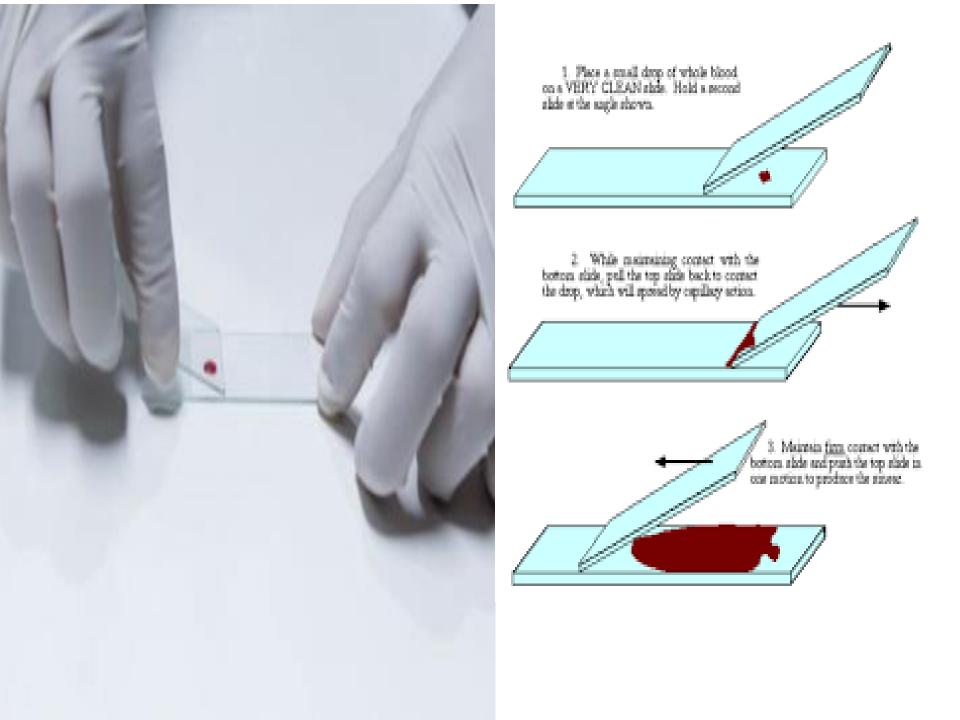
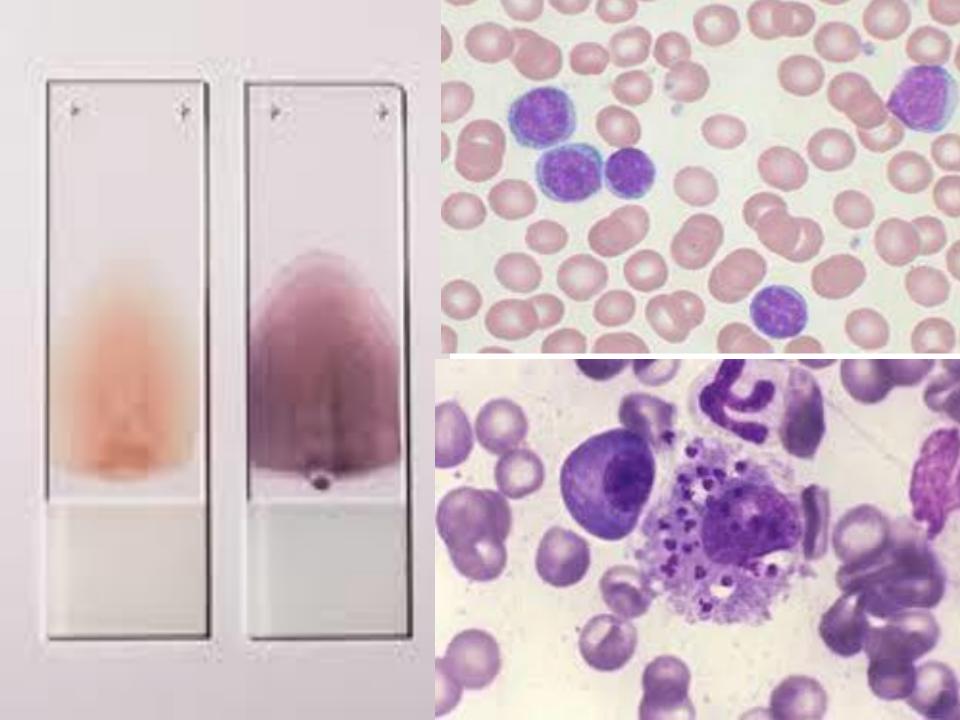


Laboratory diagnosis

- depending on the nature of the parasitic infections, the following specimens are selected for laboratory diagnosis
- 1– Blood in those parasitic infections where the parasite itself in any stage of its development circulates in the blood stream, examination of blood film forms one of the main procedures for specific diagnosis For example, in *malaria* the parasites are found inside the red blood cells In *Bancroftian* and Malayan filariasis, *microfilariae* are found in the blood plasma





- 2- Stool examination of the stool forms an important part in the diagnosis of intestinal parasitic infections and also for those
- helminthic parasites that localize in the biliary tract and discharge
- their eggs into the intestine. •
- In protozoan infections, either trophozoites or cystic forms may be detected; the former during the active phase and the latter during the chronic phase. Example, Amoebiasis, Giardiasis, etc
- In the case of helmithic infections, the adult worms, their eggs, or larvae are found in the stool.



- **3- Urine-** when the parasite localizes in the urinary tract, examination of the urine will be of help in establishing the parasitological diagnosis For example in urinary Schistosomiasis, eggs of *Schistosoma haematobium* are found in the urine., and microfilariae are found in the urine.
- 4- Sputum examination of the sputum is useful in the following:
- In cases where the habitat of the parasite is in the respiratory tract, as in
- Paragonimiasis, the eggs of *Paragonimus westermani* are found. In amoebic abscess of lung
- 5-Biopsy material varies with different parasitic infections. For example spleen punctures in cases of kala-azar, muscle biopsy in cases of Cysticercosis, Trichinelliasis, and Chagas' disease, Skin snip for Onchocerciasis.