

Wuchereria bancrofti-As pathogwnic helminth (part-4)



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Wuchereria bancrofti-pathogenicity



Filariasis - diagnosis-

- Definitive diagnosis is made by detection of microfilaria. in a thick blood smear and chylous fluid.
- Serological test like ELISA test and IHA test can be used for detection of antibodies to larval antigens.
- X-ray examination shows calcified adult worms.

Wuchereria bancrofti-pathogenicity



Filariasis—Treatment

- No proper treatment is yet known .
- Infection may be reduced or eliminated by eradication of microfilariae from circulation by administering ivermectin and compounds of antimony and arsenic.

Wuchereria bancrofti-pathogenicity



Filariasis- Prevention-

- Important preventive measure is protection from mosquito bit.
- Using bed nets while sleeping.
- Wear long sleeves and trousers.
- Applying repellent creams on skin.

Wuchereria bancrofti-pathogenicity



Filariasis– prevention

- The most important step is to reduce the target mosquito population to stop or reduce the transmission.
- It consists of-
- Anti-larval measures
- Anti adult measures
- Personal prophylaxis

Wuchereia bancrofti-Pathogenicity



Filariasis- Prevention

- Another approach to prevention includes giving entire communities medicine that kills the microscopic worms– and controlling mosquitoes.
- Annual mass treatment reduces the level of microfilariae in the blood and thus , diminishes transmission of infection.
- Periodic examination of blood for infection and initiation of recommended treatment are also likely to prevent clinical manifestation.

Thank You

