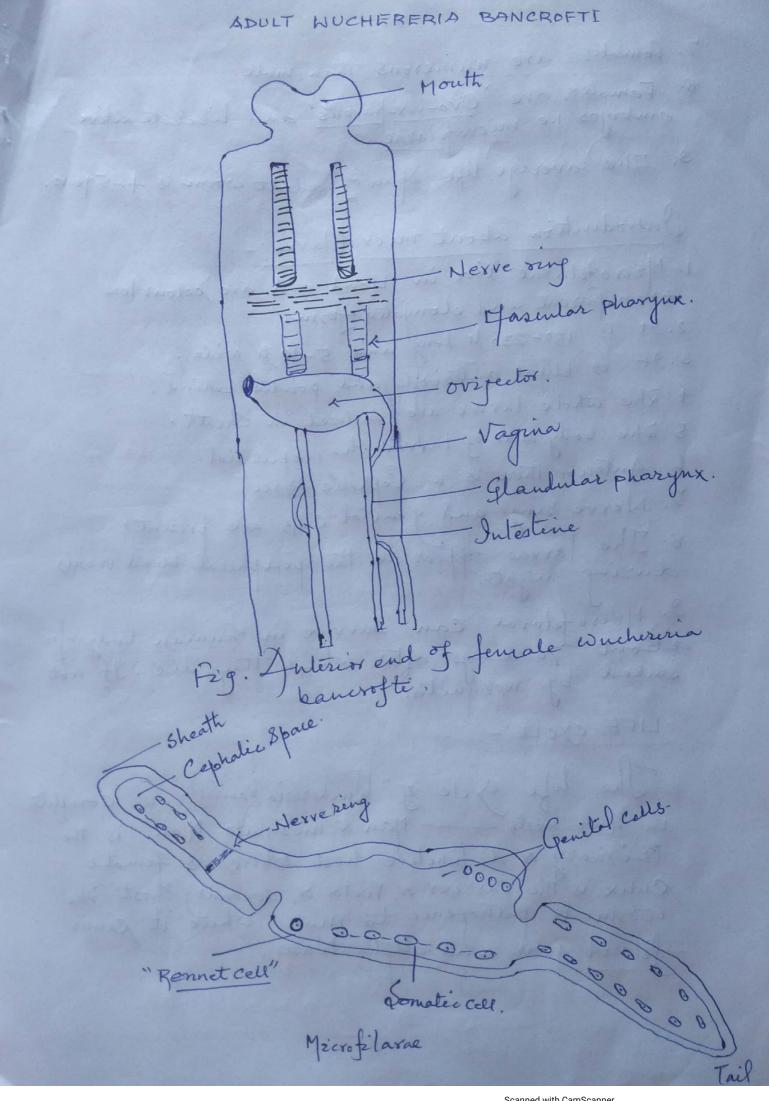
Wuchereria bancrofte (Filareal Worm): - Stoucture life cycle and faltrogeneuty SYSTEMATIC POSITION :-Kingdom: - Inimalia Devision - Torphoblastic. Section: - Pseudo colomate phylum - Aschelmenthes Class: - Nematoda order: - filaroidea Family: - Filarizdae Genus! - Wuchereria 6pp: - bancrofti. Tilaria & elephantians are caused by Wuchereria bancosti This is a nematode parasite HISTORY: - Demargnary in 1863, reported in the in the chylons wrine (cacoz passing out will drive is called chylous wrine). Adult temale parasite was reported by Bancrofte in 1876 9 EOGRAPHICAL DISTRIBUTION: - Whehereria banusofti is cosmobolitan in distribution except polar region. It has been reported that incidence of infection is high in China, Japan, Korea, Verma, East Indies, Brazil,& Arabian Countries. It is not found in Central USA & Medagaskar. HABITATE: - Filarial worm is a degenetic parasete found in male and female Culex os, female Acdes & even in Anopheles. In man Adut worm lives in Lymph Gland, Lymph Vessels, Mesenteries, Connective tissue & Lymph duct. The larvae are found in blood. In the mosquito, larval from are found which lives in preventicutus, Stomach, and thorasic muscles. MATURE OF PARASITISM!-1. It is a digenetic parasite having man as Primary host and female culex is a Wedor or, Carrier host or, intermediate host.

2. It is a pathofenic parasite lausing felaria, elephantiasis and hydrocoel in man. I felaria, 3. It is a parmanent, obligatory, endoparasite of man as histozoic parasite. 4. They resides in lymph gland, lymph vessels, mesenteries, connective tissue and lymph duet. 5. They shows the noctural periodicity 1. e they live in deep sited blood Vessels in day and they migrate to superficial blood vessels in night in the skin between 10AM to 2PM. STRUCTURAL DETAILS: -I Dhe adult filarial worm afso known as Slender worm' are long hair like transporent nematode. 2. This worm is dioecions and shows distint Sexual dimorphism 1.e male and female Sexes are seperate. 3. This are filiform in Shaped and have bothends takering. The head end is terminated in slightly swoffen form. Swollen form. 4. Generally male and female remain coiled together
5. Mouth is placed anteriorly and leads into
mascular pharynx which is followed by glandular
pharynx. 6. Mde and female filarial worm different from each other: FEMALE MALE 1. Smaller in size 2.5 to 4 cm 1. Bigger in Size 6 to 10 cm 2. Posterior is curved 2. Anterior end is straight. 3. Spicules absent. 3. Have to unequal copulatory spicules 4. General papillae present. A. Absent. Gonopore postesionly placed of Gonopore anteriorly placed.



- 7. females are numerous than male.
- 8. Females are 'Ovo-viviparous' and liberate active embryos 1.e microfilarae
- I. The average life Span of adult worm is 4-5 years.

Introduction about microfilarae:

- 1. Microfilarae live in blood and are colour loss transparent and clongated form.
- 2. It is 150-230 / Long and 5-10 h wide.
- 3. It is blunt anteriorly and pointed behind.
- 4. The whole larvae are enclosed in Sheath.
- 5. The body wall of larvae has epittelial.
- 6. Anterior there is a Caphalic Space.
- 7. Nerve ring and genital Cells are present.
- 8. The larvae appear in the peripheral blood vessels during night.
- 9. Microfeloral can Survive in human body for about 70 days after which they die. If not Sucked by nosquito.

LIFE CYCLE: -

The life Grele of "Whichereria bancrofti" is complete in two hosts — Man & mosquito. Man is the Primary or definitive host where as female culex is the Carrier or Vector or, secondary host whe was falarial fever and elephantiasis.

Copulation in Man Adult male & female ( In lymphatics of Man) Larva infieled to man by bite of I culex. young microfilarae born from quelex Microfilarae enters Infectéd into peripheral Corculation Source of Marie of Ma Mecrofilarae Sucked by

quer with blood meal Lebe yde of. W. barrofté.

The Cycle of this worm in man as follows: -Lazva in mosqueto Infection :-When an infected female Rulex belig a man. The 3rd stape larvae of W. bancrofti are deposited On the skin of man. Later on the larvae enters body and reach the hymphatic channels After Some time they Sattle in inquinal or, ascrotal or, abdominal hymphatics. The 3rd stape larva also inquinal larve are infected 181 man Maturation After 5- 18 months the microfilarae metamorphose into adult.

Reproduction: Adut worms undergo copulation. The female give birth to larva which became new generation of microfilaral. Peripheral blood vessels during night and are often Sucked by mosquito. LIFE CYCLE IN MOSQUITO! -. When the mosquito belonging to the genus Rulex or, Aedes or, Anopheles such the blood of man having, microfilarae reach to Stomach. 2. When these larvae are accumulated in Preventriculus and loose their Sheath. 3. After auxbout 2 days, unsheathed larvae changes into first Stage having rudementoy 4. In 3-7 days, larvoe moult and became and stage of larval. 5. On the 10th day, the digestive System body Cavity and genetal develops and 3rd stage larvae are produced. 6. During changes of Larval stage length SYMPTOMS (Pathopenicity) 2. Head ache 4. Lymphandentilis. 3. Lymphangitis

Lymph of passage of man where they often obstruct the flow of hymph in hymph gland and hymph vessels causes the disease hymphysics lymphandent's and hymphangitis respectively. PREVENTION (Prophylaxis) 1. To Kills the mosquito. 2. Uses mosqueto net. 3. Cleaning of Canals and not accumulation of dead and decaying substance. 4. Protection from mosquito sits. NOCTURNAL PERIODICITY Nocturnal periodicity is the process in which micro filarae Larva live in deep seted blood vessels by day and they migrate to superficial blood vessels by night in the skin between lopy to 2 AM, that very process repeated every day, So Called "Nocturnal

Periodicity"