

Paper =

clinical mycology and parasitology

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Program =

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Q1: A 45 years old man, Sikandar is presented to the local hospital having an allergic attack just like asthma. Upon investigations of chest X-ray, fungus balls were seen that changed its position when the patient is moved from an erect to a supine position. What according to you is the possible diagnosis for this condition? What is the causative agent which causes the condition? (10)

Answer no 1=

= Aspergilloma

= fungus aspergillus

Diagnosis X-ray, city San etc

Q2: Discuss the following:

- A. Definitive host (3)
- B. Intermediate host (3)
- C. Vector (4)

(A) Definitive host =

An organism that supports the adults or sexual reproductive form of a parasite.

"The worm were using hyena and large cats is definitive host and bovide are intermediate hosts.

B) Intermediate host=

An organism that supports the immature or nonreproductive form of a parasite.

“this is because snails are the intermediate hosts to parasite which is released into shallow Water, and then it can infect duck or people.

C) Vector =

An organism, typically a biting insect or tick, that transmit the disease parasite from one animal or plant to another.

An example is a female anopheles mosquito that can transmit malaria.

Q3: Explain the transmission and life cycle of plasmodium in your own words.

Answer no 3=

Life cycle in human

Definitive host (mosquito)

Intermediate host (man)

- 1) **sporozoite** in saliva of female anopheles mosquito -----this saliva of female anopheles mosquito injected in man blood by mosquito bites ----- they enter to liver cells where they grow and multiply (in this stage they don't attack on RBC and after injection firstly enter to liver -----there for this stage is called pre-erythrocytic stage) --in time the infected liver cells as known as (schizont) and the rupture and then release merozoites into the blood.
Merozoites invade RBC and grow and multiply (erythrocytic stage) ---RBC rupture and release of merozoites ----and some merozoites invade other RBC. While some diffentiat into gametocyte -----these gametocyte are sucked by anopheles mosquito.

Life cycle in mosquito =

Gametocyte -----zygote -----and then ookinete ----oocyst -----and then sporozoite the sporozoite in saliva injection in man and then the cycle is repeated .

Transmission =

Malaria is transmitted primly by mosquito bites but transmission across placenta in the blood transfusion and by intravenous drug abuse also occur

