

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 differentiate 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 primarily by mosquito bites but transmission across placenta in the blood transfusion and by intravenous drug abuse also occur

