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Discipline BS MLT 4th semester

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Subject mycology and parasitology

QUESTION 1

ANSWER

- **Causative agent** : ASPERGILLUS FUMIGATUS
- **Cause conditions** :Fungus ball and allergic bronchi pulmonary aspergillosis
- **Diagnosis**: Culture of a sputum sample
- Blood test and skin test

QUESTION 2 Discuss the following term

Definitive host

Intermediate host

Vector ?

Answer: DEFINITIVE HOST-It can be defined as when it harbors parasite in adult form or utilize sexual method of reproduction

OR

It is also called adult form

OR

The organisms on or in which the parasites live in adult phase

INTERMEDIATE HOST- It can be defined as The organism / host on or in which the parasites live in immature phase

OR

It is also called larval form

VECTOR – It can be defined as vector is an organism that aids /helps to transfer or transmit the infection of one organism/host to another

QUESTION 3 : Explain the transmission and life cycle of plasmodium in your own word ?

ANSWER : TRANSMISSION OF PLASMODIUM

- Plasmodium is transfer through the mosquito (primary bite)
- Plasmodium is transfer through the placenta (if the mother is infected with malaria)
- IV abuses of strings

LIFE CYCLE OF PLASAMODIUM

- Vector and definitive host (mosquito)
- Life cycle have two stages
- Sexual stage (is occur in mosquitoes) Asexual stage (is occur in human)

Sexual stage is also called sporogony (for that reason it produce ssporozoities)

Asexual stage is also called schizogony(for that reason it produce schizon)

Life cycle is begins when female mosquito bites the human .The mosquito injects the sporozoite when bites a person. Sporozoite are the immature form of plasmodium. Sporozoite are travelled to liver via blood stream here. They can converted into many merozoites in the hepataocytes(liver cell). Many merozoites are released to. From liver to blood stream. Rbc,s have receptor on their surface to collect the merozoites multiples many times in Rbc,s by asexually. When the RBC,s are ruptured the symptoms begins appeared (like fever, chill and sweating) . After several division the merozoites are than converted to plasmodium gametocyte(sexual form of plasmodium)

- Male plasmodium
- Female plasmodium

When an un affected female mosquito is the bite the person to take the gametocyte from

the person blood. When there gametocyte are taken by female mosquito digest the gametocytes and to produce gametes by sexual process . when Male and female gametocytes are fused in the mid gut to form zygote than converted to oocytes contain sporzoite. The oocytes ,when ruptured the sporozoite will released and when this mosquito bite another un affected person will begins the cycle again.