



HEMATOPOIETIC & LYMPHATIC SYSTEM

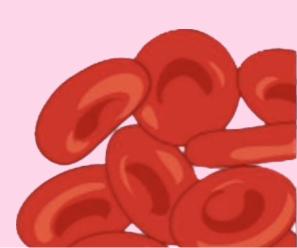
-HAYAT BATCH-

SUBJECT: Micro Mid Summary

LEC NO.:

DONE BY: Hanadi MJ W

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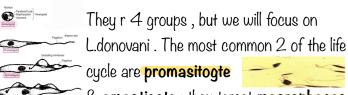
Haraeli MJ

Lecture 3

Lushmunia

l 14panosomia





& amastigote: they target macrophages

Vector is **phlebotomine sandfly** and host is **mammal**

Epidemiology

cutaneous leishmaniasis: in Syria, Saudi Arabia, Iran mucocutaneous leishmaniasis systemic leishmaniasis: Kala azar in Brazil, India, Sudan ... Endemic in 88 countries, widely distributed

(20 million people worldwide)





الدكتورقال إنهامتك اللي قبل بس مش موجودة محنا و انه ال vector هوه بيكوه مختلف و هو ال vector sandfly e year and say and sandfly sickness اللي مملَّه يستمرو بالنهاية يصير عنا وفاة ... بالنسبة للparasites بتروح اول شيع brain & meninges و هنائة بتخرب أشاء بحیث الواحد بیضل نایم و ثانی مکاد بتروح <mark>& القلب</mark>



parasites will disseminate in the bloodstream and will be taken up by the macrophages of organs & normal tissue will be replaced by other nonfunctional one.



Disseminated Intravascular Leishmeniasis (Kala azar) is caused by L. donovani

Note 👆 : in India, the human is the only known reservoir

Manifestations =: A double-quotidian pattern of fever (two fever spikes in a single day), Diarrhea and malabsorption, enlarged lymph nodes and liver, grayish pigment (kala azar, black disease),

anemia, thrombocytopenia, Serum immunoglobulin 🥝 levels 🚹 🚹





Cutaneous Leishmaniasis are of 3 types 👇

Leishmania tropica: Anthroponotic cutaneous leishmaniasis: Dry lesions with minimal ulceration

Leishmania major: Zoonotic cutaneous leishmaniasis: wet lesions with severe reaction

Oriental sore (most common) classical self-limited ulcer

Management

The diagnosis is made by demonstrating the presence of the organism in aspirates taken from the bone marrow, liver, spleen, or lymph nodes ... PCR can also be done ...

Results of the leishmanin skin test are negative during active disease but become positive after successful therapy. The mortality in untreated cases of kala azar is up to 75 to 90%

Control measures are directed at the Phlebotomus vector, with the use of residual insecticides, and at the elimination of mammalian reservoirs by treating human cases