

causes erythrocytic schizogony cycle only  
as the merozoites that released from RBCs  
never invade the liver cells

Infective stages ??????????????????



All erythrocytic stages

Organ transplant



????? Hepatic phase

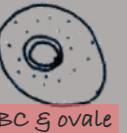
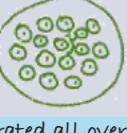
?????  
Which types

في حالة وحدة المريض رح يتبع بالكبد  
وما يحبين انه معه مalaria

Hypnozoites phase

In vivax and ovale types

Will invade in hepatic phase, the infection starts from the

	<i>Plasmodium vivax</i>	<i>Plasmodium ovale</i>	<i>Plasmodium malariae</i>	<i>Plasmodium falciparum</i>				
Trophozoite (ring stage)		 Big RBC & ovale in shape		 Multiple ring in one RBC				
Mature trophozoite	 Ameboid form trophozoite	 Ovale trophozoite	 Band form trophozoite					
Schizont	 Separated all over the RBC	 Crowded at one point	 Rosette shape merozoite Around malarial pigment	 Largest number of merozoites				
Gametocyte	 ♀	 ♂	 ♀	 ♂	 ♀	 ♂	 ♀	 ♂
	Infect young RBCs <sup>12</sup>		Old RBCs		All RBCs ages <sup>12</sup>			
								
	Infected RBCs are bigger in vivax and ovale types		Central mass of pigment -> الملاриا بتتوزع على هيموغلوبين بتأخذ البيتها ايها ويتترك الهيم		The heme is toxic for malaria so it transform it with its enzymes to hemozoin (malarial pigment)			

• Why *Plasmodium falciparum* causes malignant malaria and is more dangerous ??????????

- Irregular destruction of RBCs which make it hard to diagnose
- Cytoadhesion phenomena
- Black water fever
- Infects all types of RBCs so bigger destruction in young and old
- Has the largest number of trophozoites

## • Differences between malarial relapse and recrudescence ?????

With all types of plasmodium  
بخل عدد قليل جداً من الملاجع  
parasite Low grade parasitemia  
غير كافيين انهم يبلشوا مرض  
ما يصير مرض immunosupresent parasite وبتظهر  
ببلش ينشط الملاجع علامات الملاجع

## Chemoprophylaxis

fusion  
emia.  
sis in

➤ Weekly mefloquine ↗  
حبة بـاسبوع قبل السفر  
ومرة كل اسبوع طول الفترة المسافر فيها  
ولما يرجع يفضل ؟ اسابيع ياخده

➤ Daily doxycycline ↗  
بقدر ابدأه قبل يومين من السفر يومياً  
وطول المدة المسافر فيها  
و؟ اسابيع بعد ما يرجع

## When and How long?????