

CDC 4T051O

**Medical Laboratory
Journeyman-Microbiology**

Supplementary Material for Volume 4

Foldouts



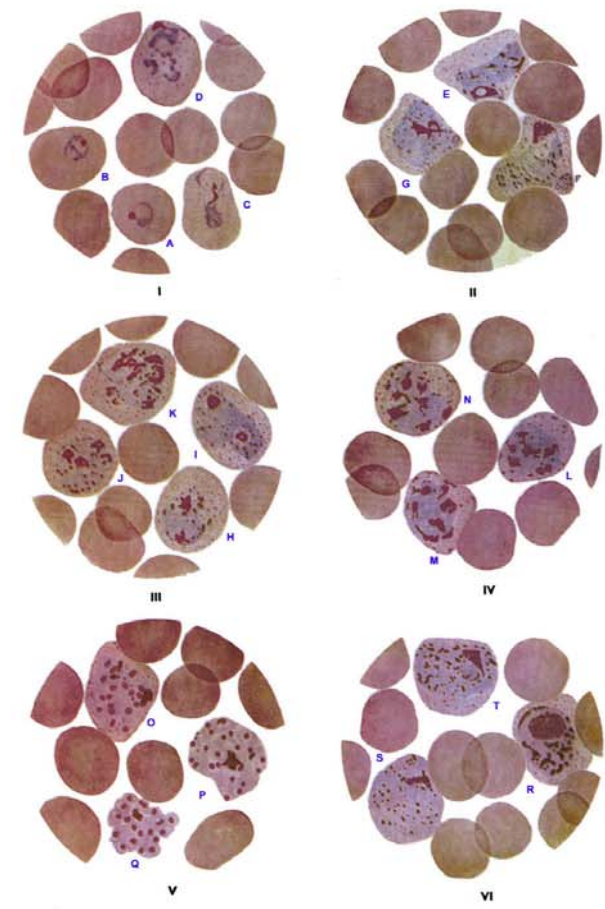
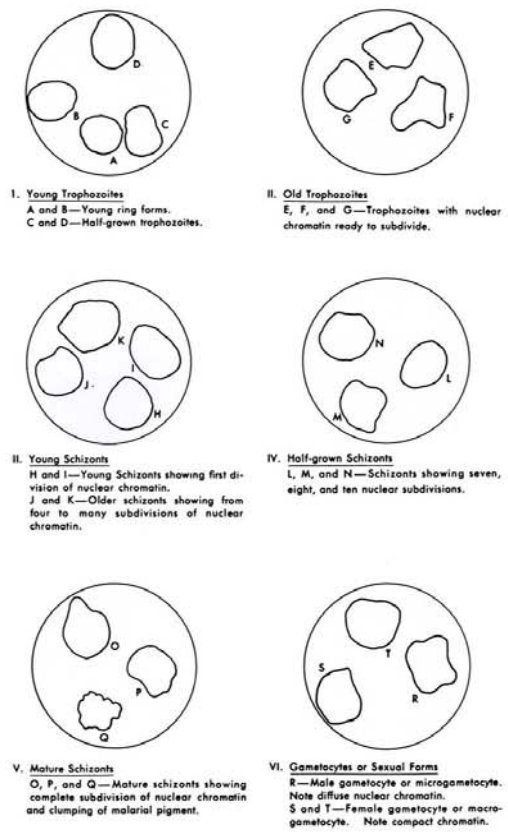
**Air Force Institute for Advanced Distributed Learning
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Air Education and Training Command**

Table of Foldouts

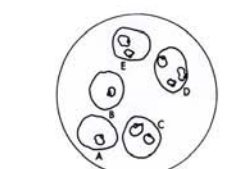
Foldout 1. *Plasmodium vivax*.

Foldout 2. *Plasmodium falciparum*.

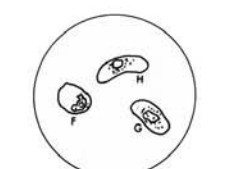
Foldout 3. *Plasmodium malariae*.



Foldout 1. Plasmodium vivax.



I. Trophozoites in Peripheral Blood
 A—Young ring forms.
 B, C, and D—Young trophozoites.
 Note multiple infections of cells and appliqué forms.
 E—These are oldest forms normally found in peripheral blood.



II. Gametocytes or Sexual Forms in Peripheral Blood
 F—Gametocyte folded over.
 G—Microgametocyte or male gametocyte.
 Note diffuse chromatin.
 H—Female or macrogametocyte. Note compact chromatin.



III. Impression Smear of Spleen
 A—Free pigment of splenic pulp.
 B—Pigment in macrophage.
 C—Half-grown schizont in cell.
 D—Parasitized red cells.
 E—Lymphocytes.



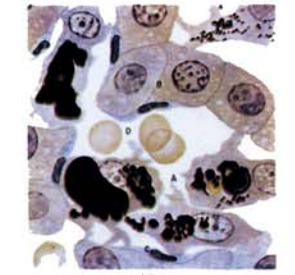
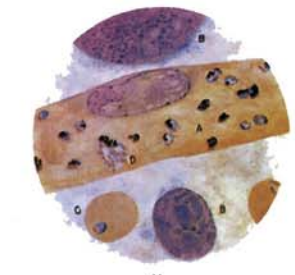
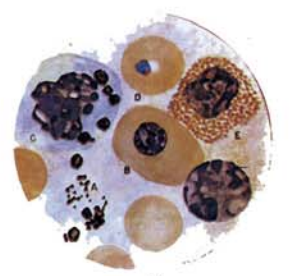
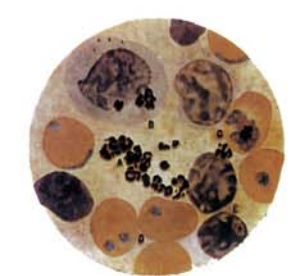
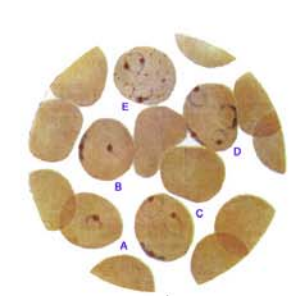
IV. Impression Smear of Bone Marrow
 A—Free pigment granules.
 B—Nucleated red cell.
 C—Pigment in macrophage.
 D—Parasitized red cell.
 E—Eosinophile.



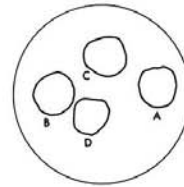
V. Impression Smear of Brain
 A—Capillary blocked with parasitized erythrocytes.
 B—Glial cells.
 C—Trophozoite in red cell.
 D—Maturing schizont.



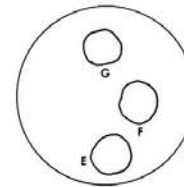
VI. Section of Liver
 A—Kupffer cells with pigment.
 B—Hepatic cells.
 C—Endothelial cell.
 D—Free red blood cells.



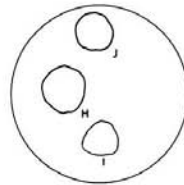
Foldout 2. Plasmodium falciparum.



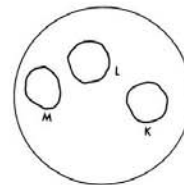
I. Young Trophozoite
A, B, and C—Progressively older ring forms.
D—Band trophozoite.



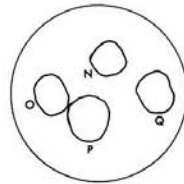
II. Half-grown Trophozoite
E—Ring form.
F and G—Mature trophozoites.
Note amount of pigment; compactness of cytoplasm.



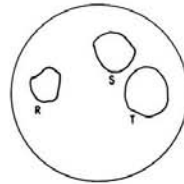
III. Young Schizonts
H—Band schizont.
I and J—Three- and five-nucleated schizonts.
Note large amount of pigment.



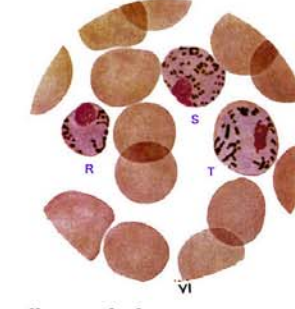
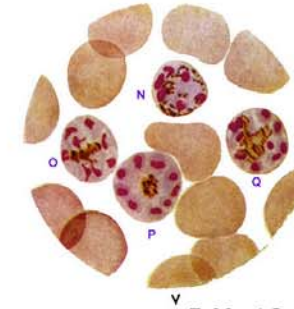
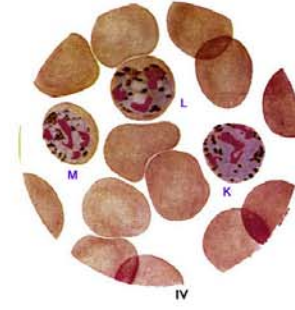
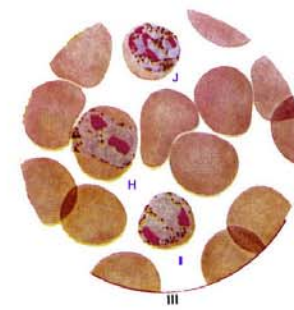
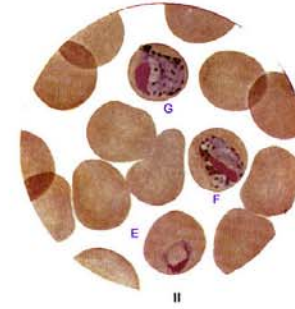
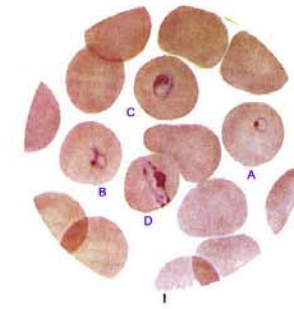
IV. Half-grown Schizonts
K, L, and M—Four- to six-nucleated schizonts. Note amount of pigment.



V. Mature Schizonts
N, O, P, and Q—Eight- or ten-nucleated schizonts ready to segment and release merozoites. Note "daisy" forms.



VI. Gametocytes or Sexual Forms
R and S—Male gametocytes or microgametocytes.
T—Female gametocyte or macrogametocyte.



Foldout 3. Plasmodium malariae.

Student Notes

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