

Diagnostic and Management Algorithm of Malaria due to  
***Non-Plasmodium Falciparum*** Species

Obtain thick and thin blood smears

Is the blood smear positive?

Repeat blood smears X 3  
Q 12 or Q24 hours

-If negative, consider different diagnosis

-If positive, follow algorithm

**Evaluate severity of the disease**

<ul style="list-style-type: none"> <li>Impaired Consciousness/coma</li> <li>Hemoglobin &lt;7 (consider hemoconcentration)</li> <li>Renal failure</li> <li>Pulmonary edema</li> <li>Acute respiratory distress syndrome</li> <li>Hypotension</li> <li>Disseminated intravascular coagulation</li> </ul>	<ul style="list-style-type: none"> <li>Spontaneous bleeding</li> <li>Acidosis (severe disease with HCO<sub>3</sub> &lt;15)</li> <li>Hemoglobinuria</li> <li>Jaundice</li> <li>Repeated generalized convulsions</li> <li>Parasitemia ≥5 %</li> </ul>	<p>If patient has a positive blood smear or high suspicious for malaria PLUS ≥1 of these sx = SEVERE MALARIA</p>
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YES → **Severe Malaria and/or patient is unable to take oral medication**

NO → **Uncomplicated Malaria**

NO → **Plasmodium falciparum or not yet identified species**

NO → Determine plasmodium species

\*if IV artesunate is needed, immediately contact the CDC through Montefiore ID pharmacist

Admit to the ICU

**Non- falciparum species**

<p><b><i>P. malariae</i></b></p> <p>Chloroquine Or Hydroxychloroquine</p>	<p><b><i>P. ovale</i> or <i>P. vivax</i> (acquired outside Papua New Guinea or Indonesia)</b></p> <p>Chloroquine Or Hydroxychloroquine <b>PLUS</b> Primaquine</p> <p>*Primaquine if not G6PD deficient and patient is not pregnant</p>	<p><b><i>P. vivax</i> (acquired in Papua New Guinea or Indonesia)</b></p> <p>Quinine PLUS doxycycline <b>PLUS</b> Primaquine</p> <p>*Primaquine if not G6PD deficient and patient is not pregnant</p>	<p><b><i>P. knowlesi</i></b></p> <p>Chloroquine Or Hydroxychloroquine</p>
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-Repeat blood smears Q 8 hours until prove parasitic clearance in severe disease and Q 12 hours in mild disease

-Check CBC, chem, LFTs, LDH every 6 hours for first 12 hours or until clinically stable

Updated 2019