Inoculation rate

Age-stratified susceptibility (Im2)

Not infected

Infected

Parasite density

Age-stratified parasite density (Im2)

“Infectiousness”

Infectiousness

R = resistant to drug A
S = sensitive to drug A

Age-stratified probability of symptomatic attack (Im1)

Symptomatic

Asymptomatic

Not treated

Monotherapy (drug A)

Combination therapy (drug AB)

Age-stratified risk of treatment failure (Im3)

Age-stratified duration of infection (Im2)

Cure

Fail

Age-stratified probability of symptomatic attack (Im1)

Age-stratified risk of treatment failure (Im3)

Age-stratified duration of infection (Im2)