

CHAPTER II

OBJECTIVES

1. To study the influence of antimalarial drug pressure during the periods of 1988- 1989, 1991-1993 and 2003, on drugs susceptibility; chloroquine, quinine, mefloquine and artesunate.
2. To study the effect of mutation of *pfmdr1* and *pfcr1* genes on susceptibility of *P. falciparum* isolates to chloroquine, quinine, mefloquine and artesunate.
3. To study the influence of antimalarial drug pressure during the periods of 1988- 1989, 1991-1993 and 2003, on the polymorphisms of *pfmdr1* and *pfcr1* genes in *P. falciparum*.
4. To investigate association between the gene copy number of *pfmdr1* gene and susceptibility of *P. falciparum* isolates to chloroquine, quinine, mefloquine and artesunate.