## **SUB INDEX**

| Particulars              | Page no.      |
|--------------------------|---------------|
| 1. Abstract              | 1             |
| 2. Introduction          | 2-4           |
| 3. Review of literature  | 5-7           |
| 4. Objectives            | 8             |
| 4. Materials and methods | 9-14          |
| 5. Results & Discussion  | <u>1</u> 5-26 |
| 6. Conclusion            | 27            |
| 7. References            | 28-30         |

## Figure and Photo index

| Fig. no. | Particulars  | Page no. |
|----------|--|----------|
| 1.       | Schematic representation of MSP-2 gene.  | 7        |
| 2.       | Diagram showing allele frequency MSP2 of P. falciparum.  | 16       |
| 3.       | Diagram showing mixed infection.   | 18       |
| 4.       | Diagram representing the total number of bands seen.   | 19       |
| 5.       | Diagram of the gel showing the DNA bands of MSP-2 alleles.   | 22       |
| 6.       | Diagram showing the different cytokines expressed by the adherent cells cultured in the presence and absence of the MSP-1 antigen. | 23       |
| 7.       | Diagram showing the protein bands after incubating with primary and secondary antibodies (Anti mouse Ig G- HRP conjugated).        | 25       |
| ,        | ,  |          |
|          |  |          |

## Table index

| Table. no. | Particulars   | Page no. |
|------------|---|----------|
| A          | Patients' characteristics for MSP-2 gene diversity. | 15       |
| В          | Binning of genotypes on basis of fragment size      | 20       |
|            |   |          |
|            |   |          |