INTRODUCTION

OBJECTIVE

REVIEW OF LITERATURE

MATERIAL AND METHODS

1. To study the larval and adult distribution of *Anopheles stephensi* in Calcutta City

   (a) Description of the study area
      i) Larval distribution
      ii) Larval Survey

   (b) Adult distribution
      i) By hand capture method
      ii) By using aspirator
      iii) *Pyrethrum spray sheet method*

2. To conduct study on the relative and seasonal prevalence of
   (a) Larvae (b) adults of *Anopheles stephensi* in Calcutta Metropolies

   (a) i) On relative and seasonal prevalence of Anopheles larvae
   ii) On seasonal prevalence of adult Anopheles stephensi

   (b) Existence of more than one form of Anopheles stephensi in Calcutta city

3. To determine the vectorial potential and sporozoite rate of wild caught *Anopheles stephensi* in the city

4. To find out the nature and kind of breeding habitat preferred by *Anopheles stephensi* for oviposition and breeding in the city

5. To study the life-cycle of *Anopheles stephensi stephensi* and *Anopheles stephensi mysorensis* and construct its life-table in the three season (summer, monsoon and winter) of the year
6. To study the biting (man-landing) activity of *Anopheles stephensi*

7. To study the host preference and determine the Human-Blood-Index (HBI) of *Anopheles stephensi* (Type)

8. To determine the insecticide susceptibility status of adult and larvae of *Anopheles stephensi*

RESULTS, TABLES, PHOTOCOPIES

GRAPHS, STATISTICAL ANALYSIS

DISCUSSION

CONCLUSION

REFERENCES

SUMMARY

REPRINTS