

## عنوان مقاله:

An overview and mapping of Malaria and its vectors in Iran

## محل انتشار:

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## خلاصه مقاله:

Introduction: In spite of public health level improvement in Iran, Malaria is still an important health problem in the southeast corner of the country. Mapping distribution of endemic diseases with their relations to geographical factors has become important for public health experts. This study was carried out to provide the distribution maps of the geographical pathology of Malaria in Iran with emphasis on its vectors. Methods: A systematic literature review was performed and the data and/or metadata were used for evaluation of findings. All available articles and books were used for mapping vectors and parasites, data of Malaria cases were obtained from Iran Center for Diseases Control, Ministry of Health in ۲۰۱۰. Incidence or prevalence of the diseases and also scientific names of vectors with collection details were arranged and mapped as a shapefile in ArcGIS software. Results: About ۲۸ different Anopheles species are found in Iran. Seven maps provided for the main vectors in the country. Distribution maps generated for Plasmodium falciparum, P. vivax and co- infection cases. Distribution maps of transmission and endemic areas are provided. Out of ۱۱۶۶۸ indigenous and transmitted malaria from imported cases in three years leading to ۲۰۱۰, about ۹۴۰۰ cases occurred in south parts of the country where the weather is influenced by Afrotropical zoogeographic region, while ۲۲۰۰ cases occurred in the southeast corner of the country where the weather is influenced by Indo-malayan and only ۲۵ cases were reported in the typical Palearctic area of Iran. Conclusion: Most malaria cases occurred in the southeast corner in Sistan Baluchistan, Hormozgan and south parts of Kerman. There are similarities between malaria transmission conditions in Iran and many tropical and subtropical countries. Such information on vectors, incidence of all cases and environmental factors can be used to set a Malaria Early Warning System and help .to prevent and control of malaria

## کلمات کلیدی:

Malaria, Anopheles, Mapping, Iran, Malaria, Anopheles, Mapping, Iran

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