

## عنوان مقاله:

Entomological Surveillance and Mapping distribution of mosquitoes in Imam Khomaini international airport, Tehran capital town, Iran

## محل انتشار:

دومین کنگره بین المللی بیماریهای منتقله بوسیله ناقلین و تغییرات آب و هوایی و چهارمین کنگره ملی حشره شناسی پزشکی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 2

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## خلاصه مقاله:

Background: Aedes mosquito is responsible to transmission of Dengue Fever, Chickengunia and Zika Viruces. Entomological survillance and mapping their distribution are the important roles to vector control program.Objectives: The objective of this study was to monitoring the presence of Aedes mosquitoes at the Imam Khomaini international airport, one of the important points of entry of Tehran county.Materials and Methods: This study was carried out from March 2018 until late September 2019 after selecting fixed sampling sites such as: Imam Khomaini Terminal (35°.40 90 N, 51°.15 55 E) . The location coordinates of the sampling sites were mark and registered with Global Positioning System (GPS) device, then the digital maps of the high risk areas were drawn using Arc Map 10.5 software. In this study, biological forms of mosquitoes (larvae, pupae and adults) were collected from larval habitats, 30 standard ovitraps, and reared in Aedes insectary, Medical entomology and Vector control, School of Public Health, Tehran University of Medical Sciences for identification via valid keys.Results: Generally, 561 larvae and adults were identified comprises; Culex pipiens Linnaeus, Cx. theileri Theobald and Culiseta longiareolata Macquart . Culex pipiens with 75% was the most abundant species.Conclusion: This is the first larval habitat mapping study at Imam Khomaini International Airport ( IATA: IKA, ICAO: OIIE) for predicting areas with the possible presence of Aedes species. A mapping study by using geographic information system along with field sampling in other areas of Tehran .capital town suggested

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