

## Prevalence Pediculosis and Associated Risk Factors in Primary-School Children of Mazandaran Province, Iran, 2012-2013

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**Abstract :** Background and purpose: Pediculosis is a worldwide public health concern. This descriptive study was performed on primary-school-aged children to determine the prevalence of pediculosis and its risk factors in Mazandaran Province, Iran, on basis of geographic information system (GIS). Materials and methods: A random sampling method was used to select 45237 school-aged children from Sari to Ramsar cities during September 2012 to June 2013. Data were collected from the selected schools by five trained nursing inspectors. A detailed questionnaire was filled for each child prior to hair examination following which examination was carried out to detect head lice as well as eggs/nits. Data were analyzed chi-square test. Finally, the GIS map was obtained in province informational chart. Results: 823 primary-school children (of 45237) were infected with lice in Mazandaran Province. The mean infection prevalence was 1.4% in cities 5.64% in rural area from Sari to Ramsar. There were significant relationships between pediculosis and some factors ( $P < 0.05$ ). GIS map revealed that the contamination was less in west than in east and central regions. Conclusion: Increasing awareness and training of teachers and parents, as well as improving standards of personal health can significantly reduce the prevalence of pediculosis.

**Keywords :** pediculosis capitis, primary school children, epidemiology, geographic information system (GIS), Mazandaran, Iran

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