A national epidemiological survey of oral mucosal lesions in Malaysia

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Available at: https://works.bepress.com/rosnah_zain/99/
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Type: Article

Abstract:

The prevalence of oral mucosal lesions in Malaysia was determined by examining a representative sample of 11,707 subjects aged 25 years and above throughout the 14 states over a period of 5 months during 1993/1994. A two-stage stratified random sampling was undertaken. A predetermined number of enumeration blocks, the smallest population unit in the census publication was selected from each state. With the selected enumeration block, a systematic sample of living quarters was chosen with a random start. The survey instrument included a questionnaire on sociodemographic characteristics and a clinical examination. The clinical examination was carried out by 16 specially trained dental public health officers and the diagnosis calibrated with a final concordance rate of 92%. The age in the sample ranged from 25 to 115 years with a mean of 44.5±14.0. The sample comprised 40.2% males and 59.8% females; 55.8% were Malays, 29.4% Chinese, 10.0% Indians and 1.2% other ethnic groups. Oral mucosal lesions were detected in 1,131 (9.7%) subjects. 5 (0.04%) had oral cancer, 165 (1.4%) had lesions or conditions that may be precancerous (leukoplakia, erythroplakia, submucous fibrosis and lichen planus) and 187 (1.6%) had betel chewer's mucosa. The prevalence of oral precancer was highest amongst Indians (4.0%) and other Bumiputras (the indigenous people of Sabah and Sarawak) (2.5%) while the lowest prevalence was amongst the Chinese (0.5%).

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<th>Author</th>
<th>Zain, R. B. ; Ikeda, N. ; Razak, I. A. ; Axell, T. ; Majid, Z. A. ; Gupta, P. C. ; Yaacob, M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td>Community Dentistry and Oral Epidemiology</td>
</tr>
<tr>
<td>ISSN</td>
<td>0301-5661</td>
</tr>
<tr>
<td>Volume</td>
<td>25</td>
</tr>
<tr>
<td>Page</td>
<td>377-383</td>
</tr>
<tr>
<td>Year</td>
<td>October 1997</td>
</tr>
</tbody>
</table>

Keyword:
oral cancer; oral mucosal lesions; oral precancers; epidemiology; prevalence; population; villagers; smoking

Please Cite As:
URL:

- http://ukpmc.ac.uk/abstract/MED/9355776/reload=0;jsessionid=sZcbSoaHqObhMN7Fy1nQ.4