Poster Determinants for Oral-Health-Related Quality of Life among Danish adults

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**Determinants for Oral-Health-Related Quality of Life among Danish adults**

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**Objectives**

Identify and analyze determinants for oral-health-related quality of life among adults admitted to a Danish research program on general health and lifestyle (DANHES 2007-2008)

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**Materials and methods**

- Study population: 4402 volunteers invited among participants of main study (n=18065) in 12 Danish cities.
- Age 18-96 years (average 54)
- Structured interviews (from main study and dental study) and clinical oral examination
- Oral-health-related quality of life measured by a 10 item index
- Non-parametric statistical methods, chi-square, simple and multivariate logistic regression

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**Results**

- 33 persons were edentulous, 7 % wore dentures, mean DMFS = 62
- 88% were regular users of dental care
- 24 % reported oral-health-related quality of life problems
- 6 % reported score of 3 or more oral-health-related quality of life problems (maximum score = 30)

Most frequent problems because of appearance of teeth (or dentures):
- Feeling embarrassed (13 %)
- Feeling tense (9 %)
- Avoid smiling/laughing (6 %)
- Difficulties with eating food due to mouth or teeth problems 9 %

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**Simple and multivariate logistic regression of odds ratio for high score of oral-health-related Quality of Life**

(index of three or more problems)

<table>
<thead>
<tr>
<th>Category</th>
<th>Simple Odds ratio</th>
<th>Multivariate Odds Ratio</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>No dental visits (5 yrs)***</td>
<td>5.7</td>
<td>4.8</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Edentulousness**</td>
<td>3.7</td>
<td>4.3</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Number of natural teeth *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-9</td>
<td>3.0</td>
<td>3.6</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>10-19</td>
<td>2.2</td>
<td>2.8</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Wearing dentures *</td>
<td>2.9</td>
<td>3.4</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>DMFS &gt; 100 *</td>
<td>1.7</td>
<td>2.5</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Decayed surfaces &gt;= 2 *</td>
<td>1.6</td>
<td>1.6</td>
<td>&lt;0.01</td>
</tr>
</tbody>
</table>

* controlled for gender, age, ethnicity, smoking habits, morbidity/handicap, physical activity, dental visit habits
** controlled for gender, age, ethnicity, smoking habits, morbidity/handicap, physical activity
***controlled for gender, age, ethnicity, smoking habits, morbidity/handicap, physical activity and number of teeth

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**Conclusions**

- Regular dental visits and high number of natural teeth are determinants for high level of oral-health-related quality of life
- Untreated caries, wearing dentures and high caries experience are determinants for reduced oral-health-related quality of life

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