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)

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

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 %

| Simple and multivariate logistic regression of odds ratio for high score of oral-health-related Quality of Life (index of three or more=problems) |
|------------------------------------------|-----------------|-----------------|-----------------|
| Category                                | Simple Odds ratio | Multivariate Odds Ratio | P-value |
| No dental visits (5 yrs)***             | 5.7             | 4.8             | <0.001          |
| Edentulousness**                        | 3.7             | 4.3             | <0.01           |
| Number of natural teeth *               | 1-9             | 3.0             | 3.6             | <0.01           |
|                                         | 10-19           | 2.2             | 2.8             | <0.001          |
| Wearing dentures *                      | 2.9             | 3.4             | <0.001          |
| DMFS > 100 *                            | 1.7             | 2.5             | <0.001          |
| Decayed surfaces >= 2 *                 | 1.6             | 1.6             | <0.01           |

* 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

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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