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Aim:
To describe trends in periodontal health and oral hygiene from 1973 to 2003
Methods

- Community Periodontal Index for Treatment Needs (CPITN), 1984-2003 data
- Assessment of radiographic bone loss (OPG)
- The Simplified Oral Hygiene Index (OHI-S) (Greene & Vermillion 1964)
Methods

- OPG available from 71-97% of participants

- Radiographic bone loss was assessed from OPG by modified Schei (1959) technique (bone height was measured in relation to the radiographic root length)

- Participants were categorized according to the highest bone loss score recorded at one or more sites
Periodontal conditions by the highest CPITN score per person, 1984-2003
Distribution of participants (%) according to the level of radiographic bone loss, 1973-2003

<table>
<thead>
<tr>
<th>Year</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973</td>
<td>83</td>
</tr>
<tr>
<td>1984</td>
<td>115</td>
</tr>
<tr>
<td>1993</td>
<td>117</td>
</tr>
<tr>
<td>2003</td>
<td>138</td>
</tr>
</tbody>
</table>

- **No bone loss**: 14%, 26%, 33%, 17%
- **≤10% loss**: 46%, 57%, 58%, 76%
- **≤20% loss**: 2%, 4%, 2%, 5%
- **≤30% loss**: 2%, 2%, 2%, 2%
- **>30% loss**: 2%, 2%, 2%, 2%
Cumulative % of participants according to the Simplified Oral Hygiene Index (OHI-S) scores, 1973-2003
Conclusions

- The results indicate improvement in periodontal conditions and oral hygiene during the period 1973-2003.
The Oslo studies

- Repetitive cross-sectional studies performed among 35-year-olds in Oslo in 1973¹, 1984² and 1993³

- Have described changes in dental caries, endodontic and periodontal conditions

(¹Hansen 1976, ²Bjertness et al.1986, ³Berset et al.1996)
Material

☐ Data collected in 2003

☐ Both published and unpublished data available from 1973-1993 investigations
Material

- Invitation letter with general information about the survey
- Clinical and radiographic examination and questionnaire

<table>
<thead>
<tr>
<th>Year of study</th>
<th>Number examined</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973</td>
<td>117</td>
<td>66%</td>
</tr>
<tr>
<td>1984</td>
<td>156</td>
<td>80%</td>
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<tr>
<td>1993</td>
<td>121</td>
<td>68%</td>
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<tr>
<td>2003</td>
<td>149</td>
<td>64%</td>
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</table>