SLActive® implants are a long term safe and predictable treatment option: 10-year results from a randomized controlled multicenter study

Study design

**Indication**
maxilla or mandible of partially edentulous patients; temporary restoration (single crown or 2-4 unit fixed partial denture) was replaced by permanent restoration 20 to 23 weeks post-surgery

**Randomized controlled multicenter study**

<table>
<thead>
<tr>
<th>Study site</th>
<th>Early loading group</th>
<th>Immediate loading group</th>
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<tbody>
<tr>
<td>Coimbra, Portugal</td>
<td>39 implants (restored the same day)</td>
<td>50 implants (restored after 28–34 days)</td>
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<tr>
<td>Weiden, Germany</td>
<td>39 implants (restored the same day)</td>
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<td>Witten/Herdecke, Germany</td>
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**Results**

Mean crestal bone level change after 10 years:

- No significant difference

- After initial remodeling phase (5–6 month) where implant depth placement had an influence on the initial bone remodeling, no significant differences between the two treatment groups were found.

- General satisfaction was excellent for over 90% of the patients (90% in the early and 92.3% in the immediate loading group).

- Patient satisfaction for comfort, appearance, ability to chew and ability to taste was rated as excellent in at least 80.4% for all criteria.

**Conclusions**

- SLActive® implants are a long-term safe and predictable treatment option.
- The 10-year follow-up of SLActive® implants placed in the posterior jaws confirmed comparable survival rates and bone level changes after early and immediate loading.

2. Mean crestal bone level change between 5-6 month post-surgery (permanent fixed restoration placement) and 10 years.
3. Kaplan Meier survival analysis based on original patient population (96 patients and 127 implants).
4. SLActive® implants are a long-term safe and predictable treatment option.