Peri-implantitis – onset and pattern of progression

Derks, J., Schaller, D., Håkansson, J., Wennström, J.L., Tomasi, C., Berglundh, T.


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Although the epidemiology and histopathology of peri-implantitis have been the subject of extensive research, the onset and pattern of progression have not been thoroughly investigated until now.

**Study aims:**
The aim of the present study was to retrospectively analyse the starting point and overall amount of peri-implant marginal bone loss in patients with existing peri-implantitis nine years after implant placement.

**Methods:**
Out of a randomly selected sample of 2,765 patients from the Swedish Social Insurance Agency, 596 individuals who attended the nine-year follow-up were selected. Peri-implantitis was defined as bleeding on probing and >2mm of radiographic bone loss since delivery of restoration. Fifty-three patients with 105 implants with peri-implantitis with baseline as well as follow-up radiographs were included.

The data analysis was based on recorded continuous variables and performed by building a curved relation growth model. The point of onset of peri-implantitis was calculated by analysing the cumulative percentage of implants showing various amounts of bone loss for each year.

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