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The effect of implant collar design and developments over the years on soft tissue and bone level - a systematic review

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Purpose: This systematic review compares the effect of rough-surfaced and machined implant necks on marginal bone loss in adult patients.

Materials and Methods: An onlinesearch was assembled with a combination of Medical Subject Headings (MeSH terms) and freetext words of the literature published up to February of 2016, to identify studies that compared modifications in the implant neck area and measured marginal alterations.

Results: The primary search yielded 1,110 significant titles. After filtering, data extraction and quality assessment, eighteen full text studies were selected and divided according to the follow-up at one year, three years and five or more years.

Conclusion: In short-term cases, defined as ≤ 1 year follow-up, rough neck implant surfaces showed better marginal bone preservation than smooth neck implant surfaces However, there was no difference between implant designs in longer-term studies, defined as ≥ 3 ys follow-up. These data do not suggest a long-term advantage to the use of either implant design.