Question
State of the Science Implant Dentistry

What is the effect on outcomes of time-to-loading of a fixed or removable prosthesis placed on implant(s)?

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Data Collected
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- Criteria for non-inclusion of papers
- Any attempt of comparative analysis with regard to time-to-loading

- Criteria for non-inclusion of papers
- Anecdotal reporting of results
- Cross-sectional & case-control study & «failing implants studies»
- Report limited to description of techniques for provisional fabrication
- Observation period less than 1 year
- Journal is produced by manufacturer
- Less than 5 patients
- Abstract only
- Old Technology (i.e. pre 1985)
- Posthoc analyses of previous reports
- Single technique case series without any element of comparisons
Summary of Papers Used /Available
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Initial search
N = 1882

Screening titles/abstracts
N = 1882

Included titles/abstracts
N = 187

Screening full-text
N = 187

Non-inclusion studies
N = 1695

Excluded studies
N = 165

Studies available for final data extraction
N = 22
Summary of Papers Used /Available
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A. Reasons for excluding studies (N=165)*
Absence of comparative control group 112
Anecdotal and ambiguous reported 35
Less than 5 patients 18
Old technology reported 13
Less than 1 year observation period 11
•some studies excluded for multiple reasons

B. Methodology of studies included (N=22)
RCT Randomized controlled trial 6
RCT Randomized controlled trial-split mouth 1
Prospective study w/ concurrent controls 7
Prospective study w/ concur submerged implants 6
Retrospective study w/ concurrent controls 2
How Did You Select Paper Inclusion/Exclusion Criteria?
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- Review authors used forced decision for inclusion & exclusion

Characteristics of excluded papers (n=165)

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Source</th>
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- Insufficient observation period (< 1 year) & Single technique case series
Findings (n= 22)
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Size and quality of papers
"Life"
Immediate: 94% (CI 91-97)
Control: 97% (CI 95-99)
Z=0.7, p=.50
Summary of Quality of studies (n=22)
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Variables which describe the study as a whole (and the publication)

Variables which describe each treatment employed in the study

Great heterogeneity amongst the studies regarding independent and dependent variables → interpretation of data?

Outcomes for each treatment employed in the study
Other Findings (n=22)
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Treatment outcomes described in papers on immediate loading (n=22)

Failure, according to criteria described by 1986 Albrektsson et al*; 6 papers
Chiapasco et al
Ibáñez et al
Romeo et al
Røynesdal et al
Testori et al (2003a)
Testori et al (2003b)
Failure, according to criteria described by 1990 Albrektsson & Sennerby*, 1 paper
Schnitman et al (1990)
Failure, according to criteria described by 1994 Albrektsson & Isidor*, 1 paper
De Bruyn et al
Failure, according to criteria described by 1997 Buser et al & 2002 Cochran et al*, 2 papers