- Schuurhuis JM, Stokman MA, Roodenburg JL, et al. Efficacy of routine pre-radiation dental screening and dental follow-up in head and neck oncology patients on intermediate and late radiation effects. A retrospective evaluation. Radiother Oncol 2011; 101:403–409.
- Nabil S, Samman N. Incidence and prevention of osteoradionecrosis after dental extraction in irradiated patients: A systematic review. Int J Oral Maxillofac Surg 2011;40:229–243.
- 5. Schiødt M, Hermund NU. Management of oral disease prior to radiation therapy. Support Care Cancer 2002;10:40–43.
- Sulaiman F, Huryn JM, Zlotolow IM. Dental extractions in the irradiated head and neck patient: A retrospective analysis of Memorial Sloan-Kettering Cancer Center protocols, criteria, and end results. J Oral Maxillofac Surg 2003;61:1123–1131.
- Koga DH, Salvajoli JV, Kowalski LP, Nishimoto IN, Alves FA. Dental extractions related to head and neck radiotherapy: Tenyear experience of a single institution. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2008;105:e1-e6.
- Wahl MJ. Osteoradionecrosis prevention myths. Int J Radiat Oncol Biol Phys 2006;64:661–669.
- Chang DT, Sandow PR, Morris CG, et al. Do pre-irradiation dental extractions reduce the risk of osteoradionecrosis of the mandible? Head Neck 2007;29:528–536.
- Gerritsen AE, Allen PF, Witter DJ, Bronkhorst EM, Creugers NH. Tooth loss and oral health-related quality of life: A systematic review and meta-analysis. Health Qual Life Outcomes 2010;8:126.
- Miller SC. Textbook of Periodontia, ed 3. Philadelphia: Blakeston, 1950.
- Jansma J, Vissink A, Spijkervet FK, et al. Protocol for the prevention and treatment of oral sequelae resulting from head and neck radiation therapy. Cancer 1992;70:2171–2180.
- Bruins HH, Koole R, Jolly DE. Pretherapy dental decisions in patients with head and neck cancer. A proposed model for dental decision support. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1998;86:256–267.

- O'Sullivan B, Rumble RB, Warde P, Members of the IMRT Indications Expert Panel. Intensity-modulated radiotherapy in the treatment of head and neck cancer. Clin Oncol (R Coll Radiol) 2012;24:474–487.
- Peterson DE, Doerr W, Hovan A, et al. Osteoradionecrosis in cancer patients: The evidence base for treatment-dependent frequency, current management strategies, and future studies. Support Care Cancer 2010;18:1089–1098.
- Beesley R, Rieger J, Compton S, Parliament M, Seikaly H, Wolfaardt J. Comparison of tooth loss between intensity-modulated and conventional radiotherapy in head and neck cancer patients. J Otolaryngol Head Neck Surg 2012;41:389–395.
- Harada S, Akhter R, Kurita K, et al. Relationships between lifestyle and dental health behaviors in a rural population in Japan. Community Dent Oral Epidemiol 2005;33:17–24.
- Östberg AL, Ericsson JS, Wennström JL, Abrahamsson KH. Socio-economic and lifestyle factors in relation to priority of dental care in a Swedish adolescent population. Swed Dent J 2010:34:87–94.
- Gerritsen AE, Witter DJ, Bronkhorst EM, Creugers NH. An observational cohort study on shortened dental arches—Clinical course during a period of 27–35 years. Clin Oral Investig 2013:17:859–866.
- Mizbah K, Dings JP, Kaanders JH, et al. Interforaminal implant placement in oral cancer patients: During ablative surgery or delayed? A 5-year retrospective study. Int J Oral Maxillofac Surg 2013;42:651–655.
- Scott-Brown M, Miah A, Harrington K, Nutting C. Evidencebased review: Quality of life following head and neck intensitymodulated radiotherapy. Radiother Oncol 2010;97:249–257.
- Speksnijder CM, van der Bilt A, Abbink JH, Merkx MA, Koole R. Mastication in patients treated for malignancies in tongue and/or floor of mouth: A 1-year prospective study. Head Neck 2011;33:1013–1020.

Literature Abstract

Immediate nonfunctional versus immediate functional loading and dental implant failure rates: A systematic review and meta-analysis

This study investigated and compared implant survival rates, postoperative infection and marginal bone loss for patients with dental implants subjected to immediate functional loading (IFL) and immediate nonfunctional loading (INFL) protocols. An electronic search undertaken in March 2014 yielded 11 studies that included human clinical trials (7 studies of high risk bias and 4 studies of low risk bias). From these studies, 821 implants received INFL with 17 failures (2.1%), and 1,231 implants received IFL with 26 failures (2.1%). The estimates of relative effect were expressed in risk ratio and in mean difference in millimeters with a 95% confidence interval (CI). The results showed that the procedure (INFL versus IFL) did not significantly affect implant failure rates (P = .07), with a risk ratio of 0.87 (95% CI: 0.44 to 1.75). Meta-analysis of the occurrence of postoperative infection was not possible due to the lack of data. No statistically significant effect on marginal bone loss was found between the procedures. The authors concluded that differences between INFL and IFL might not affect implant failure rates and marginal bone loss. However, these results should be interpreted with caution due to limitations of this study that involve confounding factors such as the use of grafting in some studies, different implant sites, different brands of implant, and other uncontrolled variables.

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