

# NTF Landsmøte 2013, Kunnskapsbasert behandlingsplanlegging og klinisk praksis

## Asbjørn Jokstad, Professor, Dr. Odont.

Kriterier for hva som er (1) en god vitenskapelig artikkel & (2) god forskning finnes på:

<http://www.equator-network.org>

Kliniske scenarier – beste vitenskapelige evidens pr. Oktober 2013, per A Jokstad.

1. En utslått fortann på en ung pasient – din terapi har livslange konsekvenser
  - <http://dentaltraumaguide.org/>
  - Andersson L, et al.; International Association of Dental Traumatology. International Association of Dental Traumatology guidelines for the management of traumatic dental injuries: 2. Avulsion of permanent teeth. Dent Traumatol 2012;28(2):88-96
  - de Souza RF, ea. Interventions for treating traumatised ankylosed permanent front teeth. Cochrane Database Systematic Reviews 2010
  - Day P, Duggal M. Interventions for treating traumatised permanent front teeth: avulsed (knocked out) and replanted. Cochrane Database Systematic Reviews 2010
  - Malmgren B, Cvek M, Lundberg M, Frykholm A. Surgical treatment of ankylosed and infrapositioned reimplanted incisors in adolescents. Scand J Dent Res 1984; 92 : 391-9.
2. Tanna med usikker prognose – endodonti, periokirurgi eller implantat?
  - Endo:
    - Setzer FC, Kim S. Comparison of long-term survival of implants and endodontically treated teeth. J Dent Res 2013; prepub
    - Tomasi C, et al. Longevity of teeth and implants - a systematic review. J Oral Rehabil 2008;35 Sup 1:23-32.
    - Blicher B, Baker D, Lin J. Endosseous implants versus nonsurgical root canal therapy: a systematic review of the literature. Gen Dent 2008 Sep-Oct;56(6):576-80;
    - Holm-Pedersen P, et al. What are the longevities of teeth and oral implants? Clin Oral Implants Res 2007;18 Sup 3:15-9.
    - Iqbal MK, Kim S. For teeth requiring endodontic treatment, what are the differences in outcomes of restored endodontically treated teeth compared to implant-supported restorations? Int J Oral Maxillofac Impl 2007;22 Sup:96-116.
    - Torabinejad M, Anderson P, Bader J, et al. Outcomes of root canal treatment and restoration, implant-supported single crowns, fixed partial dentures, and extraction without replacement: a systematic review. J Prosthet Dent 2007;98(4):285-311.
  - Perio:
    - Cortellini P, Stalpers G, Mollo A, Tonetti MS. Periodontal regeneration versus extraction and prosthetic replacement of teeth severely compromised by attachment loss to the apex: 5-year results of an ongoing randomized clinical trial. J Clin Periodontol 2011;38(10):915-24.
    - Chambrone L, Chambrone D, Lima LA, Chambrone LA. Predictors of tooth loss during long-term periodontal maintenance: a systematic review of observational studies. J Clin Periodontol 2010 Jul;37(7):675-84
    - Flemmig TF, Beikler T. Decision making in implant dentistry: an evidence-based and decision-analysis approach. Periodontol 2000 2009;50:154-72.
3. Når er revisjon av en rotfylling nødvendig før protetikkbehandling?
  - Keinan D, Moshonov J, Smidt A. Is endodontic re-treatment mandatory for every relatively old temporary restoration? A narrative review. J Am Dent Assoc 2011;142(4):391-6.

- Bergenholtz G, Spångberg L. Controversies in endodontics. Crit Rev Oral Biol Med 2004;15(2):99-114.

4. Hvor mye periodontalt festetap er for mye festetap for en bro?

- Lulic M, Brägger U, Lang NP, Zwahlen M, Salvi GE. Ante's (1926) law revisited: a systematic review on survival rates and complications of fixed dental prostheses (FDPs) on severely reduced periodontal tissue support. Clin Oral Implants Res 2007;18 Suppl 3:63-72.
- Grossmann Y, Sadan A. The prosthodontic concept of crown-to-root ratio: a review of the literature. J Prosthet Dent 2005;93(6):559-62

5. Den nye broen – bør ikke helkeram nå erstatte metall-keramet?

- Denry I. How and when does fabrication damage adversely affect the clinical performance of ceramic restorations? Dent Mater 2013;29(1):85-96.
- Reitemeier B, et al. A prospective 10-year study of metal ceramic single crowns and fixed dental prosthesis retainers in private practice settings. J Prosthet Dent 2013;109(3):149-55
- Raigrodski AJ, et al. Survival and complications of zirconia-based fixed dental prostheses: a systematic review. J Prosthet Dent 2012;107:170-7.
- Layton D. A critical appraisal of the survival and complication rates of tooth-supported all-ceramic and metal-ceramic fixed dental prostheses: the application of evidence-based dentistry. Int J Prosthodont 2011;24:417-27.
- Guess PC, et al. Damage and reliability of Y-TZP after cementation surface treatment. J Dent Res 2010;89(6):592-6
- Schley JS, et al. Survival probability of zirconia-based fixed dental prostheses up to 5 yr: a systematic review of the literature. Eur J Oral Sci 2010;118:443-50.
- Heintze SD, Rousson V. Survival of zirconia- and metal-supported fixed dental prostheses: a systematic review. Int J Prosthodont 2010 ;23:493-502.
- Al-Amleh B, et al. Clinical trials in zirconia: a systematic review. J Oral Rehabil 2010;37:641-52.
- Pjetursson BE et al. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part I: Single crowns. Clin Oral Implants Res 2007;18 Suppl 3:73-85.
- Sailer I, et al. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part II: Fixed dental prostheses. Clin Oral Implants Res 2007;18 Suppl 3:86-96
- Rekow D, Thompson VP. Near-surface damage--a persistent problem in crowns obtained by computer-aided design and manufacturing. Proc Inst Mech Eng H 2005; 219(4):233-43

6. Singeltannsluka i fronten – er en implantatløsning alltid best?

- <http://www.itl.org/var/external/sac-tool/default-1000.htm>

7. Metall-keram-broen til svigermor – er valg av en lav-edel-legering lumpent?

- Svanborg P, Längström L, Lundh RM, Bjerkstig G, Ortorp A. A 5-year retrospective study of cobalt-chromium-based fixed dental prostheses. Int J Prosthodont 2013; 26:343-9
- Teigen K, Jokstad A. Dental implant suprastructures using cobalt-chromium alloy compared with gold alloy framework veneered with ceramic or acrylic resin: a retrospective cohort study up to 18 years. Clin Oral Implants Res 2012;23(7):853-60
- Hjalmarsson L. On cobalt-chrome frameworks in implant dentistry. Swed Dent J Suppl 2009;(201):3-83

8. Slitasjetannsettet – er plast billig og bra ? ...eller bare billig?

- Grippo JO, Simring M, Schreiner S. Attrition, abrasion, corrosion and abfraction revisited: a new perspective on tooth surface lesions. *J Am Dent Assoc* 2004;135(8):1109-18

9. TMD pasienten – hvordan var det med stabilisering- eller reposisjons-skinnene?

- Ebrahim S, Montoya L, Busse JW, Carrasco-Labra A, Guyatt GH; Medically Unexplained Syndromes Research Group. The effectiveness of splint therapy in patients with temporomandibular disorders: a systematic review and meta-analysis. *J Am Dent Assoc* 2012 Aug;143(8):847-57.
- Friction J, Look JO, Wright E, Alencar FG Jr, Chen H, Lang M, Ouyang W, Velly AM. Systematic review and meta-analysis of randomized controlled trials evaluating intraoral orthopedic appliances for temporomandibular disorders. *J Orofac Pain* 2010 Summer;24(3):237-54.
- List T, Axelsson S. Management of TMD: evidence from systematic reviews and meta-analyses. *J Oral Rehabil* 2010 May;37(6):430-51

10. Den perioaktive røykeren som mistet 17&16 – og bare måtte ha implantater! (?)

- Renvert S, Persson GR. Periodontitis as a potential risk factor for peri-implantitis. *J Clin Periodontol* 2009;36 Sup 10:9-14.
- Ong CT, et al. Systematic review of implant outcomes in treated periodontitis subjects. *J Clin Periodontol* 2008;35(5):438-62.
- Schou S. Implant treatment in periodontitis-susceptible patients: a systematic review. *J Oral Rehabil* 2008;35 Sup 1:9-22.
- Quirynen M, et al. Impact of supportive periodontal therapy and implant surface roughness on implant outcome in patients with a history of periodontitis. *J Clin Periodontol* 2007;34(9):805-15.
- Karoussis IK, et al. A comprehensive and critical review of dental implant prognosis in periodontally compromised partially edentulous patients. *Clin Oral Implants Res* 2007;18(6):669-79
- Strietzel FP, Reichart PA, Kale A, Kulkarni M, Wegner B, Kuchler I. Smoking interferes with the prognosis of dental implant treatment: a systematic review and meta-analysis. *J Clin Periodontol* 2007;34(6):523-44.
- Klokkevold PR, Han TJ. How do smoking, diabetes, and periodontitis affect outcomes of implant treatment? *Int J Oral Maxillofac Impl* 2007;22 Sup:173-202.
- Hinode D, et al. Influence of smoking on osseointegrated implant failure: a meta-analysis. *Clin Oral Implants Res* 2006; 17(4):473-8.
- Van der Weijden GA, et al. Implant therapy in partially edentulous, periodontally compromised patients: a review. *J Clin Periodontol* 2005;32(5):506-11.

11. Kollumfraktur – hvilken faktor er viktigst for kroneretensjon og -prognose?

- Juloski J, Radovic I, Goracci C, Vulicevic ZR, Ferrari M. Ferrule effect: a literature review. *J Endod* 2012;38(1):11-9
- Goracci C, Ferrari M. Current perspectives on post systems: a literature review. *Aust Dent J* 2011;56 Suppl 1:77-83
- Theodosopoulou JN, Chochlidakis KM. A systematic review of dowel (post) and core materials and systems. *J Prosthodont* 2009;18(6):464-72
- Stavropoulou AF, Koidis PT. A systematic review of single crowns on endodontically treated teeth. *J Dent* 2007; 35(10): 761-7

- Valderhaug J, Jokstad A, Ambjørnsen E, Norheim PW. Assessment of the periapical and clinical status of crowned teeth over 25 years. *Journal of Dentistry*, 1997; 25: 97 - 105.

12. Plastsement er nytt mens sinkfosfatsement er gammelt –valget er vel klart?

- Sorrentino R, et al. Clinical evaluation of 209 all-ceramic single crowns cemented on natural and implant-supported abutments with different luting agents: a 6-year retrospective study. *Clin Implant Dent Relat Res* 2012;14(2):184-97 (**Procera All ceram**)
- Behr M, et al. Self-adhesive resin cement versus zinc phosphate luting material: a prospective clinical trial begun 2003. *Dent Mater* 2009;25(5):601-4 (**Metal-ceramics**)
- Jokstad A. A split-mouth randomized clinical trial of single crowns retained with resin-modified glass-ionomer and zinc phosphate luting cements. *Int J Prosthodont*. 2004;17(4):411-6. (**Metal-ceramics**)
- Jokstad A, Mjör IA. Ten years' clinical evaluation of three luting cements. *J Dent*. 1996; 24(5):309-15. (**Metal-ceramics**)

13. Rotstifter – er støpt stift gått ut på dato?

- Goodacre CJ. Carbon fiber posts may have fewer failures than metal posts. *J Evid Based Dent Pract* 2010;10(1):32-4
- Baba NZ, Golden G, Goodacre CJ. Nonmetallic prefabricated dowels: a review of compositions, properties, laboratory, and clinical test results. *J Prosthodont* 2009; 18(6):527-36
- Bolla M, Muller-Bolla M, Borg C, Lupi-Pegurier L, Laplanche O, Leforestier E. Root canal posts for the restoration of root filled teeth. *Cochrane Database Syst Rev* 2007;(1):CD004623. N=1

14. Er kostnadene for enkelt-implantat eller liten bro likeverdige?

- Vogel R, Smith-Palmer J, Valentine W. Evaluating the health economic implications and cost-effectiveness of dental implants: a literature review. *Int J Oral Maxillofac Implants* 2013;28(2):343-56.
- Scheuber S, Hicklin S, Brägger U. Implants versus short-span fixed bridges: survival, complications, patients' benefits. A systematic review on economic aspects. *Clin Oral Implants Res* 2012;23 Suppl 6:50-62.
- Pjetursson BE, et al. Comparison of survival and complication rates of tooth-supported fixed dental prostheses (FDPs) and implant-supported FDPs and single crowns (SCs). *Clin Oral Implants Res* 2007;18 Suppl 3:97-113.
- Salinas TJ, Eckert SE. In patients requiring single-tooth replacement, what are the outcomes of implant- as compared to tooth-supported restorations? *Int J Oral Maxillofac Impl* 2007;22 Suppl:71-95.

Nasjonale evidensbaserte retningslinjer for odontologi:

<http://www.socialstyrelsen.se/tandvardsriktlinjer>