

Bilaga 29 Exkluderade studier samt studier med hög risk för bias för TÅ-par 22

Vetenskapligt underlag till Socialstyrelsens nationella riktlinjer för tandvården

Rapport nr 334

Appendix 29 Excluded studies and studies with high risk of bias for TÅ-par 22

Table of contents

Excluded studies	page 2-6
Studies with high risk of bias	page 7

This list consists of articles not included in SBU's report. It has two parts:

Excluded studies

This part consists of articles considered relevant in terms of abstract, but the full-text articles were considered to be irrelevant to the research question and other inclusion criteria, after assessment.

Studies with high risk of bias

This part consists of articles that were relevant in terms of abstract and full-text, but after quality assessment considered to be studies with high risk of bias.

Excluded studies

Reference	Main reason for exclusion
Albashaireh ZS, Alnegrish AS. Postobturation pain after single- and multiple-visit endodontic therapy. A prospective study. <i>Journal of dentistry</i> 1998;26:227-32.	Not relevant
Al-Manei KK. Radiographic Quality of Single vs. Multiple-Visit Root Canal Treatment Performed by Dental Students: A Case Control Study. <i>Iran</i> 2018;13:149-54.	Not relevant
Alomaym MAA, Aldohan MFM, Alharbi MJ, Alharbi NA. Single versus Multiple Sitting Endodontic Treatment: Incidence of Postoperative Pain - A Randomized Controlled Trial. <i>J</i> 2019;9:172-77.	Not relevant
Al-Razhi B, Fadag A, Alqutaibi AY. Limited Evidence Suggests that Single-visit RCT may Have a Similar Risk of Long-term Complications but a Higher Risk of Flare-Ups Compared with Multiple-Visit Endodontic Treatments. <i>The journal of evidence-based dental practice</i> 2018;18:243-45.	Wrong study design
Alsulaimani RS. Single-visit endodontic treatment of mature teeth with chronic apical abscesses using mineral trioxide aggregate cement: a randomized clinical trial. <i>BMC oral health</i> 2016;16:78.	Not relevant
Anonymous. Endodontic treatment in single and multiple visits: an overview of systematic reviews. <i>British dental journal</i> 2017;223:254.	Wrong study design
Bharuka SB, Mandroli PS. Single- versus two-visit pulpectomy treatment in primary teeth with apical periodontitis: A double-blind, parallel group, randomized controlled trial. <i>J Indian Soc Pedod Prev Dent</i> 2016;34:383-90.	Not relevant
Brignardello-Petersen R. Very similar long-term complication rate and short-term incidence rate when comparing single-visit and multiple-visit endodontic treatments. <i>Journal of the American Dental Association (1939)</i> 2017;148:e70.	Wrong study design
DiRenzo A, Gresla T, Johnson BR, Rogers M, Tucker D, BeGole EA. Postoperative pain after 1- and 2-visit root canal therapy. <i>Oral surgery, oral medicine, oral pathology, oral radiology, and endodontics</i> 2002;93:605-10.	Not relevant
DiRenzo T, Gresla T, Johnson BR, Rogers M, Tucker D, Remeikis NA. Postoperative pain following one vs. two visit root canal therapy: a preliminary report. <i>Journal of endodontics</i> 2000;26.	Duplicate
El Mubarak AHH, Abu-bakr NH, Ibrahim YE. Postoperative pain in multiple-visit and single-visit root canal treatment. <i>Journal of endodontics</i> 2010;36:36-9.	Not relevant

Eleazer PD, Eleazer KR. Flare-up rate in pulpally necrotic molars in one-visit versus two-visit endodontic treatment. <i>Journal of endodontics</i> 1998;24:614-6.	Wrong study design
Erdem Hepsenoglu Y, Eyuboglu TF, Ozcan M. Postoperative Pain Intensity after Single- versus Two-visit Nonsurgical Endodontic Retreatment: A Randomized Clinical Trial. <i>Journal of endodontics</i> 2018;44:1339-46.	Not relevant
Fava LR. A clinical evaluation of one and two-appointment root canal therapy using calcium hydroxide. <i>Int Endod J</i> 1994;27:47-51.	Not relevant
Fava LR. A comparison of one versus two appointment endodontic therapy in teeth with non-vital pulps. <i>Int Endod J</i> 1989;22:179-83.	Wrong study design
Figini L, Lodi G, Gorni F, Gagliani M. Single versus multiple visits for endodontic treatment of permanent teeth. <i>Cochrane Database of Systematic Reviews</i> 2007.	Wrong study design
Fleming CH, Litaker MS, Alley LW, Eleazer PD. Comparison of classic endodontic techniques versus contemporary techniques on endodontic treatment success. <i>Journal of endodontics</i> 2010;36:414-8.	Wrong study design
Fonzar F, Mollo A, Venturi M, Pini P, Fabian Fonzar R, Trullenque-Eriksson A, Esposito M. Single versus two visits with 1-week intracanal calcium hydroxide medication for endodontic treatment: One-year post-treatment results from a multicentre randomised controlled trial. <i>European Journal of Oral Implantology</i> 2017;10:29-41.	Not relevant
Ince B, Ercan E, Dalli M, Dulgergil CT, Zorba YO, Colak H. Incidence of postoperative pain after single- and multi-visit endodontic treatment in teeth with vital and non-vital pulp. <i>Eur J Dent</i> 2009;3:273-9.	Not relevant
Jabeen S, Khurshiduzzaman M. Incidence of post obturation pain following single and multi visit root canal treatment in a teaching hospital of Bangladesh. <i>Mymensingh medical journal : MMJ</i> 2014;23:254-60.	Not relevant
K B. Trial suggests no difference between single-visit and two-visit root canal treatment. <i>Evidence-Based Dentistry</i> 2013;14:48.	Duplicate
Kenrick S. Endodontics: a multiple-visit or single-visit approach. <i>Australian endodontic journal : the journal of the Australian Society of Endodontology Inc</i> 2000;26:82-5.	Not relevant
Kvist T, Molander A, Dahlen G, Reit C. Microbiological evaluation of one- and two-visit endodontic treatment of teeth with apical periodontitis: a randomized, clinical trial. <i>Journal of Endodontics</i> 2004;30:572-6.	Not relevant
Lipton SL. One treatment root canal procedures vs. multiple visit root canal procedures. <i>Journal Of The Macomb Dental Society</i> 1982;19:5-9.	No access

Liu S, Leng ZY. Short-term clinical effect of single-visit root canal therapy for infected root canals. Journal of Shanghai Jiaotong University (Medical Science) 2013;33:1014-17.	Not relevant
Nagy MM, Tawfik HE, Hashem AA, Abu-Seida AM. Regenerative potential of immature permanent teeth with necrotic pulps after different regenerative protocols. Journal of Endodontics 2014;40:192-8.	Not relevant
Nct. Incidence of Post-operative Pain After Single-visit Versus Two-visit Treatment. https://clinicaltrials.gov/show/nct03120845 2017.	Wrong study design
Nct. Postoperative Pain in Single-visit and Multiple-visit Retreatment Cases. https://clinicaltrials.gov/show/nct03042377 2017.	Not relevant
Oginni A, Udoeye CI. Endodontic flare-ups: comparison of incidence between single and multiple visits procedures in patients attending a Nigerian teaching hospital. Odontostomatologie tropicale = Tropical dental journal 2004;27:23-7.	Not relevant
Oginni AO, Udoeye CI. Endodontic flare-ups: comparison of incidence between single and multiple visit procedures in patients attending a Nigerian teaching hospital. BMC oral health 2004;4:4.	Duplicate
Onay EO, Ungor M, Yazici AC. The evaluation of endodontic flare-ups and their relationship to various risk factors. BMC oral health 2015;15:142.	Not relevant
Patil AA, Joshi SB, Bhagwat SV, Patil SA. Incidence of Postoperative Pain after Single Visit and Two Visit Root Canal Therapy: A Randomized Controlled Trial. Journal of clinical and diagnostic research : JCDR 2016;10:ZC09-12.	Not relevant
Pekruhn RB. Single-visit endodontic therapy: a preliminary clinical study. Journal of the American Dental Association (1939) 1981;103:875-7.	Wrong study design
Rabello DGD, Corazza BJM, Ferreira LL, Santamaria MP, Gomes APM, Martinho FC. Does supplemental photodynamic therapy optimize the disinfection of bacteria and endotoxins in one-visit and two-visit root canal therapy? A randomized clinical trial. Photodiagnosis Photodyn Ther 2017;19:205-11.	Not relevant
Raju TBVG, Seshadri A, Vamsipavani B, Abhilash K, Subhash AV, Kumari KVH. Evaluation of pain in single and multi rooted teeth treated in single visit endodontic therapy. Journal of international oral health : JIOH 2014;6:27-32.	Not relevant
Rao KN, Kandaswamy R, Umashetty G, Rathore VP, Hotkar C, Patil BS. Post-Obturation pain following one-visit and two-visit root canal treatment in necrotic anterior teeth. Journal of International Oral Health 2014;6:28-32.	Not relevant

- Riaz A, Maxood A, Abdullah S, Saba K, Din SU, Zahid S. Not relevant
Comparison of frequency of post-obturation pain of single versus multiple visit root canal treatment of necrotic teeth with infected root canals. A Randomized Controlled Trial. JPMA J Pak Med Assoc 2018;68:1429-33.
- Risso PA, Cunha AJLA, Araujo MCP, Luiz RR. Postobturation pain and associated factors in adolescent patients undergoing one- and two-visit root canal treatment. Not relevant
Journal of dentistry 2008;36:928-34.
- Roane JB, Dryden JA, Grimes EW. Incidence of Not relevant
postoperative pain after single- and multiple-visit endodontic procedures. Oral surgery, oral medicine, and oral pathology 1983;55:68-72.
- Sathorn C, Parashos P, Messer HH. Effectiveness of single- Not relevant
versus multiple-visit endodontic treatment of teeth with apical periodontitis: a systematic review and meta-analysis. Int Endod J 2005;38:347-55.
- Schwendicke F, Gostemeyer G. Cost-effectiveness of Single- Not relevant
Versus Multistep Root Canal Treatment. Journal of endodontics 2016;42:1446-52.
- Schwendicke F, Göstemeyer G. Single-visit or multiple-visit Not relevant
root canal treatment: Systematic review, meta-Analysis and trial sequential analysis. BMJ Open 2017;7.
- Singh S, Garg A. Incidence of post-operative pain after single visit Not relevant
and multiple visit root canal treatment: A randomized controlled trial. Journal of conservative dentistry : JCD 2012;15:323-7.
- Southard DW, Rooney TP. Effective one-visit therapy for Wrong study design
the acute periapical abscess. Journal of endodontics 1984;10:580-3.
- Su Y, Wang C, Ye L. Healing rate and post-obturation pain of Wrong study design
single- versus multiple-visit endodontic treatment for infected root canals: a systematic review. Journal of Endodontics 2011;37:125-32.
- t399r RBR. Single visit x multiple visit endodontic Wrong study design
treatment: success after 1 year of treatment.
[Http://www.who.int/trialsearch/trial2.aspx? Trialid=rbr-5t399r](http://www.who.int/trialsearch/trial2.aspx?Trialid=rbr-5t399r) 2018.
- Umesi DC, Oremosu OA, Makanjuola JO, Nwachukwu NC. Not relevant
Frequency and distribution of teeth treated by single- and multiple- visit root canal treatment in a Nigerian population by differently skilled operators. Odonto-stomatologie tropicale = Tropical dental journal 2016;39:56-64.
- Wang C, Xu P, Ren L, Dong G, Ye L. Comparison of post- Not relevant
obturation pain experience following one-visit and two-visit root canal treatment on teeth with vital pulps: a randomized controlled trial. Int Endod J 2010;43:692-7.

- Weiselberg M, Vogelson K. One visit endodontics: not only could you but should you? *Journal of the New Jersey Dental Association* 1983;54:59-63. Not relevant
- Wong AW, Tsang CS, Zhang S, Li KY, Zhang C, Chu CH. Treatment outcomes of single-visit versus multiple-visit non-surgical endodontic therapy: a randomised clinical trial. *BMC oral health* 2015;15:162. Not relevant
- Wong AW, Zhang S, Li SK, Zhu X, Zhang C, Chu CH. Incidence of post-obturation pain after single-visit versus multiple-visit non-surgical endodontic treatments. *BMC oral health* 2015;15:96. Not relevant
- Wong YJ. Similar treatment outcomes when performing endodontic therapy on permanent teeth in a single visit or multiple visits. *Journal of the American Dental Association (1939)* 2017;148:687-89. Wrong study design
- Xavier ACC, Martinho FC, Chung A, Oliveira LD, Jorge AOC, Valera MC, Carvalho CAT. One-visit versus two-visit root canal treatment: effectiveness in the removal of endotoxins and cultivable bacteria. *Journal of endodontics* 2013;39:959-64. Not relevant
- Yoldas O, Topuz A, Isci AS, Oztunc H. Postoperative pain after endodontic retreatment: single- versus two-visit treatment. *Oral surgery, oral medicine, oral pathology, oral radiology, and endodontics* 2004;98:483-7. Not relevant

Studies with high risk of bias

Reference

Oliet S. Single-visit endodontics: a clinical study.

Journal of endodontics 1983;9:147-52.

Penesis VA, Fitzgerald PI, Fayad MI, Wenckus CS, BeGole EA, Johnson BR. Outcome of one-visit and two-visit endodontic treatment of necrotic teeth with apical periodontitis: a randomized controlled trial with one-year evaluation. Journal of Endodontics 2008;34:251-7.

Peters LB, Wesselink PR. Periapical healing of endodontically treated teeth in one and two visits obturated in the presence or absence of detectable microorganisms. Int Endod J 2002;35:660-7.

Prashanth MB, Tavane PN, Abraham S, Chacko L. Comparative evaluation of pain, tenderness and swelling followed by radiographic evaluation of periapical changes at various intervals of time following single and multiple visit endodontic therapy: an in vivo study. The journal of contemporary dental practice 2011;12:187-91.

Soltanoff W. A comparative study of the single-visit and the multiple-visit endodontic procedure. Journal of endodontics 1978;4:278-81.