

Bilaga 39 Exkluderade studier samt studier med hög risk för bias för TÅ-par 8.1, 8.2 och 9.1

Vetenskapligt underlag till Socialstyrelsens nationella riktlinjer för tandvården

Rapport nr 334

Appendix 39 Excluded studies and studies with high risk of bias for TÅ-par 8.1, 8.2 and 9.1

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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
Ahovuo-Saloranta A, Forss H, Hiiri A, Nordblad A, Mäkelä M. Pit and fissure sealants versus fluoride varnishes for preventing dental decay in the permanent teeth of children and adolescents. <i>Cochrane Database Syst Rev</i> 2016;2016:Cd003067.	Not relevant
Ahovuo-Saloranta A, Forss H, Walsh T, Hiiri A, Nordblad A, Mäkelä M, Worthington HV. Sealants for preventing dental decay in the permanent teeth. <i>Cochrane Database Syst Rev</i> 2013:Cd001830.	Not relevant
Alirezaei M, Bagherian A, Sarraf Shirazi A. Glass ionomer cements as fissure sealing materials: yes or no?: A systematic review and meta-analysis. <i>J Am Dent Assoc</i> 2018;149:640-49.e9.	Not relevant
Alkilzy M, Berndt C, Meller C, Schidlowski M, Splieth C. Sealing of proximal surfaces with polyurethane tape: a two-year clinical and radiographic feasibility study. <i>J Adhes Dent</i> 2009;11:91-4.	Not relevant
Alkilzy M, Berndt C, Splieth CH. Sealing proximal surfaces with polyurethane tape: three-year evaluation. <i>Clin Oral Investig</i> 2011;15:879-84.	Not relevant
Alsabek L, Al-Nerabieah Z, Bshara N, Comisi JC. Retention and remineralization effect of moisture tolerant resin-based sealant and glass ionomer sealant on non-cavitated pit and fissure caries: Randomized controlled clinical trial. <i>J Dent</i> 2019;86:69-74.	Not relevant
Amaechi BT. Remineralisation - the buzzword for early MI caries management. <i>Br Dent J</i> 2017;223:173-82.	Not relevant
Ammari MM, Jorge RC, Souza IPR, Soviero VM. Efficacy of resin infiltration of proximal caries in primary molars: 1-year follow-up of a split-mouth randomized controlled clinical trial. <i>Clin Oral Investig</i> 2018;22:1355-62.	Not relevant
Ammari MM, Soviero VM, da Silva Fidalgo TK, Lenzi M, Ferreira DM, Mattos CT, et al. Is non-cavitated proximal lesion sealing an effective method for caries control in primary and permanent teeth? A systematic review and meta-analysis. <i>J Dent</i> 2014;42:1217-27.	Wrong study design
Anauate-Netto C, Borelli LN, Amore R, V DIH, D'Alpino PHP. Caries progression in non-cavitated fissures after infiltrant application: a 3-year follow-up of a randomized controlled clinical trial. <i>J Appl Oral Sci</i> 2017;25:442-54.	Not relevant
Arslan S, Kaplan MH. The Effect of Resin Infiltration on the Progression of Proximal Caries Lesions: A Randomized Clinical Trial. <i>Medical principles and practice</i> . 2019.	Duplicate
Azarpazhooh A, Main PA. Pit and fissure sealants in the prevention of dental caries in children and adolescents: a systematic review. <i>J Can Dent Assoc</i> 2008;74:171-7.	Not relevant

Bader JD, Shugars DA, Bonito AJ. A systematic review of selected caries prevention and management methods. <i>Community Dent Oral Epidemiol</i> 2001;29:399-411.	Not relevant
Bader JD, Shugars DA. The evidence supporting alternative management strategies for early occlusal caries and suspected occlusal dentinal caries. <i>J Evid Based Dent Pract</i> 2006;6:91-100.	Not relevant
Bagher SM, Hegazi FM, Finkelman M, Ramesh A, Gowharji N, Swee G, et al. Radiographic Effectiveness of Resin Infiltration in Arresting Incipient Proximal Enamel Lesions in Primary Molars. <i>Pediatr Dent</i> 2018;40:195-200.	Not relevant
Bakhshandeh A, Ekstrand K. Infiltration and sealing versus fluoride treatment of occlusal caries lesions in primary molar teeth. 2-3 years results. <i>Int J Paediatr Dent</i> 2015;25:43-50.	Not relevant
Bakhshandeh A, Qvist V, Ekstrand KR. Sealing occlusal caries lesions in adults referred for restorative treatment: 2-3 years of follow-up. <i>Clin Oral Investig</i> 2012;16:521-9.	Not relevant
Barja-Fidalgo F, Maroun S, de Oliveira BH. Effectiveness of a glass ionomer cement used as a pit and fissure sealant in recently erupted permanent first molars. <i>J Dent Child (Chic)</i> 2009;76:34-40.	Not relevant
Beauchamp J, Caufield PW, Crall JJ, Donly K, Feigal R, Gooch B, et al. Evidence-based clinical recommendations for the use of pit-and-fissure sealants: a report of the American Dental Association Council on Scientific Affairs. <i>J Am Dent Assoc</i> 2008;139:257-68.	Not relevant
Beauchamp J, Caufield PW, Crall JJ, Donly KJ, Feigal R, Gooch B, et al. Evidence-based clinical recommendations for the use of pit-and-fissure sealants: a report of the American Dental Association Council on Scientific Affairs. <i>Dent Clin North Am</i> 2009;53:131-47, x.	Not relevant
Borges BC, Campos GB, da Silveira AD, de Lima KC, Pinheiro IV. Efficacy of a pit and fissure sealant in arresting dentin non-cavitated caries: a 1-year follow-up, randomized, single-blind, controlled clinical trial. <i>Am J Dent</i> 2010;23:311-6.	Duplicate
Borges BC, de Souza Borges J, Braz R, Montes MA, de Assunção Pinheiro IV. Arrest of non-cavitated dentinal occlusal caries by sealing pits and fissures: a 36-month, randomised controlled clinical trial. <i>Int Dent J</i> 2012;62:251-5.	Not relevant
Bravo M, Baca P, Llodra JC, Osorio E. A 24-month study comparing sealant and fluoride varnish in caries reduction on different permanent first molar surfaces. <i>J Public Health Dent</i> 1997;57:184-6.	Not relevant

Bravo M, Garcia-Anllo I, Baca P, Llodra JC. A 48-month survival analysis comparing sealant (Delton) with fluoride varnish (Duraphat) in 6- to 8-year-old children. <i>Community Dent Oral Epidemiol</i> 1997;25:247-50.	Not relevant
Bravo M, Llodra JC, Baca P, Osorio E. Effectiveness of visible light fissure sealant (Delton) versus fluoride varnish (Duraphat): 24-month clinical trial. <i>Community Dent Oral Epidemiol</i> 1996;24:42-6.	Not relevant
Bravo M, Montero J, Bravo JJ, Baca P, Llodra JC. Sealant and fluoride varnish in caries: a randomized trial. <i>J Dent Res</i> 2005;84:1138-43.	Not relevant
Carlsson A, Petersson M, Twetman S. 2-year clinical performance of a fluoride-containing fissure sealant in young schoolchildren at caries risk. <i>Am J Dent</i> 1997;10:115-9.	Not relevant
Carvalho JC, Thylstrup A, Ekstrand KR. Results after 3 years of non-operative occlusal caries treatment of erupting permanent first molars. <i>Community Dent Oral Epidemiol</i> 1992;20:187-92.	Not relevant
Chadwick BL, Treasure ET, Playle RA. A randomised controlled trial to determine the effectiveness of glass ionomer sealants in pre-school children. <i>Caries Res</i> 2005;39:34-40.	Not relevant
Chatzimarkou S, Koletsi D, Kavvadia K. The effect of resin infiltration on proximal caries lesions in primary and permanent teeth. A systematic review and meta-analysis of clinical trials. <i>J Dent</i> 2018;77:8-17.	Wrong study design
Chestnutt IG, Hutchings S, Playle R, Morgan-Trimmer S, Fitzsimmons D, Aawar N, et al. Seal or Varnish? A randomised controlled trial to determine the relative cost and effectiveness of pit and fissure sealant and fluoride varnish in preventing dental decay. <i>Health Technol Assess</i> 2017;21:1-256.	Not relevant
Chestnutt IG, Playle R, Hutchings S, Morgan-Trimmer S, Fitzsimmons D, Aawar N, et al. Fissure Seal or Fluoride Varnish? A Randomized Trial of Relative Effectiveness. <i>J Dent Res</i> 2017;96:754-61.	Not relevant
Chestnutt IG. Are fluoride-containing sealants more effective than non-fluoride sealants? <i>Evid Based Dent</i> 2019;20:12-13.	Not relevant
Clinical Evaluation of Two Different Prevention Programs in Adults Depending on Their Caries Risk Profile: one-year Results. <i>Operative dentistry</i> . 2019;44(2):127-37.	Not relevant
da Mata C, McKenna G, Anweigi L, Hayes M, Cronin M, Woods N, et al. An RCT of atraumatic restorative treatment for older adults: 5 year results. <i>J Dent</i> 2019;83:95-99.	Not relevant

da Silveira AD, Borges BC, de Almeida Varela H, de Lima KC, Pinheiro IV. Progression of non-cavitated lesions in dentin through a nonsurgical approach: a preliminary 12-month clinical observation. <i>Eur J Dent</i> 2012;6:34-42.	Not relevant
de Assunção IV, da Costa Gde F, Borges BC. Systematic review of noninvasive treatments to arrest dentin non-cavitated caries lesions. <i>World J Clin Cases</i> 2014;2:137-41.	Not relevant
de Moraes MD, de Melo MA, Bezerra Dda S, Costa LS, Saboia Vde P, Rodrigues LK. Clinical study of the caries-preventive effect of resin-modified glass ionomer restorations: aging versus the influence of fluoride dentifrice. <i>J Investig Clin Dent</i> 2016;7:180-6.	Not relevant
de Oliveira DC, Cunha RF. Comparison of the caries-preventive effect of a glass ionomer sealant and fluoride varnish on newly erupted first permanent molars of children with and without dental caries experience. <i>Acta Odontol Scand</i> 2013;71:972-7.	Not relevant
Deery C. Fissure seal or fluoride varnish? <i>Evid Based Dent</i> 2016;17:77-78.	Not relevant
Deery C. Strong evidence for the effectiveness of resin based sealants. <i>Evid Based Dent</i> 2013;14:69-70.	Not relevant
Doméjean S, Ducamp R, Léger S, Holmgren C. Resin infiltration of non-cavitated caries lesions: a systematic review. <i>Med Princ Pract</i> 2015;24:216-21.	Not relevant
Dorri M, Dunne SM, Walsh T, Schwendicke F. Micro-invasive interventions for managing proximal dental decay in primary and permanent teeth. <i>Cochrane Database Syst Rev</i> 2015:Cd010431.	Wrong study design
Duangthip D, Jiang M, Chu CH, Lo EC. Non-surgical treatment of dentin caries in preschool children--systematic review. <i>BMC Oral Health</i> 2015;15:44.	Not relevant
Ekstrand KR, Bakhshandeh A, Martignon S. Treatment of proximal superficial caries lesions on primary molar teeth with resin infiltration and fluoride varnish versus fluoride varnish only: efficacy after 1 year. <i>Caries Res</i> 2010;44:41-6.	Not relevant
Elrashid AH, Alshaiji BS, Saleh SA, Zada KA, Baseer MA. Efficacy of Resin Infiltrate in Noncavitated Proximal Carious Lesions: A Systematic Review and Meta-Analysis. <i>J Int Soc Prev Community Dent</i> 2019;9:211-18.	Wrong study design
Erdemir U, Sancakli HS, Yaman BC, Ozel S, Yucel T, Yildiz E. Clinical comparison of a flowable composite and fissure sealant: a 24-month split-mouth, randomized, and controlled study. <i>J Dent</i> 2014;42:149-57.	Not relevant
Faghihian R, Shirani M, Tarrahi MJ, Zakizade M. Efficacy of the Resin Infiltration Technique in Preventing Initial Caries Progression: A Systematic Review and Meta-Analysis. <i>Pediatr Dent</i> 2019;41:88-94.	Wrong study design

Flório FM, Pereira AC, Meneghim Mde C, Ramacciato JC. Evaluation of non-invasive treatment applied to occlusal surfaces. <i>ASDC J Dent Child</i> 2001;68:326-31, 01.	Not relevant
Foster Page LA, Beckett D, Ahmadi R, Schwass DR, Leon de la Barra S, Moffat SM, et al. Resin Infiltration of Caries in Primary Molars in a Community Setting: 24-Month Randomized Controlled Trial Findings. <i>JDR Clin Trans Res</i> 2017;2:287-94.	Not relevant
Goldman A, Leal SC, de Amorim RG, Frencken JE. Treating High-Caries Risk Occlusal Surfaces in First Permanent Molars through Sealants and Supervised Toothbrushing: A 3-Year Cost-Effective Analysis. <i>Caries Res</i> 2017;51:489-99.	Not relevant
Gomez SS, Basili CP, Emilson CG. A 2-year clinical evaluation of sealed noncavitated approximal posterior carious lesions in adolescents. <i>Clin Oral Investig</i> 2005;9:239-43.	Not relevant
Gooch BF, Griffin SO, Gray SK, Kohn WG, Rozier RG, Siegal M, et al. Preventing dental caries through school-based sealant programs: updated recommendations and reviews of evidence. <i>J Am Dent Assoc</i> 2009;140:1356-65.	Not relevant
Gray GB. An evaluation of sealant restorations after 2 years. <i>Br Dent J</i> 1999;186:569-75.	Not relevant
Griffin SO, Oong E, Kohn W, Vidakovic B, Gooch BF, Bader J, et al. The effectiveness of sealants in managing caries lesions. <i>J Dent Res</i> 2008;87:169-74.	Not relevant
Gugnani N. Trial shows caries reductions at one year in school-based sealant programme. <i>Evid Based Dent</i> 2013;14:71.	Not relevant
Gözetici B, Öztürk-Bozkurt F, Toz-Akalin T. Comparative Evaluation of Resin Infiltration and Remineralisation of Noncavitated Smooth Surface Caries Lesions: 6-month Results. <i>Oral Health Prev Dent</i> 2019;17:99-106.	Not relevant
Hamilton JC, Dennison JB, Stoffers KW, Gregory WA, Welch KB. Early treatment of incipient carious lesions: a two-year clinical evaluation. <i>J Am Dent Assoc</i> 2002;133:1643-51.	Not relevant
Handelman SL, Leverett DH, Iker HP. Longitudinal radiographic evaluation of the progress of caries under sealants. <i>J Pedod</i> 1985;9:119-26.	Not relevant
Handelman SL, Leverett DH, Solomon ES, Brenner CM. Use of adhesive sealants over occlusal carious lesions: radiographic evaluation. <i>Community Dent Oral Epidemiol</i> 1981;9:256-9.	Not relevant
Handelman SL. Effect of sealant placement on occlusal caries progression. <i>Clin Prev Dent</i> 1982;4:11-6.	Not relevant
Hiiri A, Ahovuo-Saloranta A, Nordblad A, Mäkelä M. Pit and fissure sealants versus fluoride varnishes for preventing dental decay in children and adolescents. <i>Cochrane Database Syst Rev</i> 2006:Cd003067.	Not relevant

Hiiri A, Ahovuo-Saloranta A, Nordblad A, Mäkelä M. Pit and fissure sealants versus fluoride varnishes for preventing dental decay in children and adolescents. <i>Cochrane Database Syst Rev</i> 2010;Cd003067.	Not relevant
Hilgert LA, Leal SC, Mulder J, Creugers NH, Frencken JE. Caries-preventive Effect of Supervised Toothbrushing and Sealants. <i>J Dent Res</i> 2015;94:1218-24.	Not relevant
Himida T, Promise U. School-based dental sealant programmes may be effective in caries prevention. <i>Evid Based Dent</i> 2017;18:13-14.	Not relevant
Holmgren C, Gaucher C, Decerle N, Doméjean S. Minimal intervention dentistry II: part 3. Management of non-cavitated (initial) occlusal caries lesions--non-invasive approaches through remineralisation and therapeutic sealants. <i>Br Dent J</i> 2014;216:237-43.	Not relevant
Holmgren CJ, Lo EC, Hu D. Glass ionomer ART sealants in Chinese school children-6-year results. <i>J Dent</i> 2013;41:764-70.	Not relevant
Honkala S, ElSalhy M, Shyama M, Al-Mutawa SA, Boodai H, Honkala E. Sealant versus Fluoride in Primary Molars of Kindergarten Children Regularly Receiving Fluoride Varnish: One-Year Randomized Clinical Trial Follow-Up. <i>Caries Res</i> 2015;49:458-66.	Not relevant
Hou J, Gu Y, Zhu L, Hu Y, Sun M, Xue H. Systemic review of the prevention of pit and fissure caries of permanent molars by resin sealants in children in China. <i>J Investig Clin Dent</i> 2017;8.	Not relevant
Jaafar N, Ragab H, Abedrahman A, Osman E. An In Vivo Investigation of Diagnostic Performance of DIAGNOdent Pen and the Canary System for Assessment and Monitoring Enamel Caries under Fissure Sealants. <i>J Int Soc Prev Community Dent</i> 2020;10:246-54.	Not relevant
Jorge RC, Ammari MM, Soviero VM, Souza IPR. Randomized controlled clinical trial of resin infiltration in primary molars: 2 years follow-up. <i>J Dent</i> 2019;90:103184.	Not relevant
Joshi S, Sandhu M, Sogi HPS, Garg S, Dhindsa A. Split-mouth Randomised Clinical Trial on the Efficacy of GIC Sealant on Occlusal Surfaces of Primary Second Molar. <i>Oral Health Prev Dent</i> 2019;17:17-24.	Not relevant
Kalnina J, Care R. Prevention of occlusal caries using a ozone, sealant and fluoride varnish in children. <i>Stomatologija</i> 2016;18:26-31.	Not relevant
Kargul B, Tanboga I, Gulman N. A comparative study of fissure sealants Helioseal Clear Chroma and Delton FS(+): 3 year results. <i>Eur Arch Paediatr Dent</i> 2009;10:218-22.	Not relevant

Kashbour W, Gupta P, Worthington HV, Boyers D. Pit and fissure sealants versus fluoride varnishes for preventing dental decay in the permanent teeth of children and adolescents. <i>Cochrane Database Syst Rev</i> 2020;11:Cd003067.	Not relevant
Kilpatrick NM, Murray JJ, McCabe JF. A clinical comparison of a light cured glass ionomer sealant restoration with a composite sealant restoration. <i>J Dent</i> 1996;24:399-405.	Not relevant
Krois J, Göstemeyer G, Reda S, Schwendicke F. Sealing or infiltrating proximal carious lesions. <i>J Dent</i> 2018;74:15-22.	Wrong study design
Lam PPY, Sardana D, Ekambaram M, Lee GHM, Yiu CKY. Effectiveness of Pit and Fissure Sealants for Preventing and Arresting Occlusal Caries in Primary Molars: A Systematic Review and Meta-Analysis. <i>J Evid Based Dent Pract</i> 2020;20:101404.	Not relevant
Li F, Jiang P, Yu F, Li C, Wu S, Zou J, et al. Comparison between Fissure Sealant and Fluoride Varnish on Caries Prevention for First Permanent Molars: a Systematic Review and Meta-analysis. <i>Sci Rep</i> 2020;10:2578.	Not relevant
Liang Y, Deng Z, Dai X, Tian J, Zhao W. Micro-invasive interventions for managing non-cavitated proximal caries of different depths: a systematic review and meta-analysis. <i>Clin Oral Investig</i> 2018;22:2675-84.	Wrong study design
Liu BY, Lo EC, Chu CH, Lin HC. Randomized trial on fluorides and sealants for fissure caries prevention. <i>J Dent Res</i> 2012;91:753-8.	Not relevant
Martignon S, Tellez M, Santamaría RM, Gomez J, Ekstrand KR. Sealing distal proximal caries lesions in first primary molars: efficacy after 2.5 years. <i>Caries Res</i> 2010;44:562-70.	Not relevant
Mertz-Fairhurst EJ, Schuster GS, Fairhurst CW. Arresting caries by sealants: results of a clinical study. <i>J Am Dent Assoc</i> 1986;112:194-7.	Not relevant
Messer LB, Cline JT. Relative caries experience of sealed versus unsealed permanent posterior teeth: a three-year study. <i>ASDC J Dent Child</i> 1980;47:175-82.	Not relevant
Mickenausch S, Yengopal V. Caries-Preventive Effect of High-Viscosity Glass Ionomer and Resin-Based Fissure Sealants on Permanent Teeth: A Systematic Review of Clinical Trials. <i>PLoS One</i> 2016;11:e0146512.	Not relevant
Muñoz-Sandoval C, Gambetta-Tessini K, Giacaman RA. Microcavitated (ICDAS 3) carious lesion arrest with resin or glass ionomer sealants in first permanent molars: A randomized controlled trial. <i>J Dent</i> 2019;88:103163.	Not relevant

Nakamura A, Sakuma S, Yoshihara A, Deguchi T, Yagi M, Miyazaki H. Long-term follow-up of the effects of a school-based caries preventive programme involving fluoride mouth rinse and targeted fissure sealant: evaluation at 20 years old. <i>Int Dent J</i> 2009;59:215-21.	Not relevant
Nicholson JW. Evidence-based approach to minimal restorative intervention for early carious lesions. <i>Tex Dent J</i> 2003;120:960-9.	Not relevant
Ntovas P, Rahiotis C. A clinical guideline for caries infiltration of proximal enamel lesions with resins. <i>Br Dent J</i> 2018;225:299-304.	Wrong study design
Oulis CJ, Berdouses ED. Fissure sealant retention and caries development after resealing on first permanent molars of children with low, moderate and high caries risk. <i>Eur Arch Paediatr Dent</i> 2009;10:211-7.	Not relevant
Oz FD, Ergin E, Cakir FY, Gurgan S. Clinical Evaluation of a Self-Adhering Flowable Resin Composite in Minimally Invasive Class I Cavities: 5-year Results of a Double Blind Randomized, Controlled Clinical Trial. <i>Acta Stomatol Croat</i> 2020;54:10-21.	Not relevant
Pakdaman A, Montazeri A, Evans RW. Deciduous dentition approximal caries lesion progression and regression following preventive treatment: literature review. <i>Aust Dent J</i> 2018;63:422-28.	Not relevant
Paris S, Hopfenmuller W, Meyer-Lueckel H. Resin infiltration of caries lesions: an efficacy randomized trial. <i>J Dent Res</i> 2010;89:823-6.	Duplicate
Pereira AC, Pardi V, Basting RT, Menighim MC, Pinelli C, Ambrosano GM, García-Godoy F. Clinical evaluation of glass ionomers used as fissure sealants: twenty-four-month results. <i>ASDC J Dent Child</i> 2001;68:168-74, 50.	Not relevant
Pereira AC, Pardi V, Mialhe FL, Meneghim MC, Basting RT, Werner CW. Clinical evaluation of a polyacid-modified resin used as a fissure sealant: 48-month results. <i>Am J Dent</i> 2000;13:294-6.	Not relevant
Peters MC, Hopkins AR, Jr., Yu Q. Resin infiltration: An effective adjunct strategy for managing high caries risk-A within-person randomized controlled clinical trial. <i>J Dent</i> 2018;79:24-30.	Duplicate
Qvist V, Borum MK, Møller KD, Andersen TR, Blanche P, Bakhshandeh A. Sealing Occlusal Dentin Caries in Permanent Molars: 7-Year Results of a Randomized Controlled Trial. <i>JDR Clin Trans Res</i> 2017;2:73-86.	Not relevant
Robertson MD, Araujo MP, Innes NPT. Resin Infiltration May Reduce Proximal Carious Lesion Progression in Permanent Teeth With Ongoing Uncertainty for Primary Teeth. <i>J Evid Based Dent Pract</i> 2019;19:177-79.	Not relevant

- Sarti CS, Vizzotto MB, Filgueiras LV, Bonifácio CC, Rodrigues JA. Two-Year Split-Mouth Randomized Controlled Clinical Trial on the Progression of Proximal Carious Lesions on Primary Molars After Resin Infiltration. *Pediatr Dent* 2020;42:110-15. Not relevant
- Schwendicke F, Jäger AM, Paris S, Hsu LY, Tu YK. Treating pit-and-fissure caries: a systematic review and network meta-analysis. *J Dent Res* 2015;94:522-33. Wrong study design
- Seppä L, Hausen H, Pöllänen L, Kärkkäinen S, Helasharju K. Effect of intensified caries prevention on approximal caries in adolescents with high caries risk. *Caries Res* 1991;25:392-5. Not relevant
- Shaanan OO, Abou-Auf E, El Zoghby AF. Clinical evaluation of flowable resin composite versus conventional resin composite in carious and noncarious lesions: Systematic review and meta-analysis. *J Conserv Dent* 2017;20:380-85. Not relevant
- Simonsen RJ. Pit and fissure sealant: review of the literature. *Pediatr Dent* 2002;24:393-414. Wrong study design
- Slayton RL, Urquhart O, Araujo MWB, Fontana M, Guzmán-Armstrong S, Nascimento MM, et al. Evidence-based clinical practice guideline on nonrestorative treatments for carious lesions: A report from the American Dental Association. *J Am Dent Assoc* 2018;149:837-49.e19. Wrong study design
- Splieth CH, Kanzow P, Wiegand A, Schmoeckel J, Jablonski-Momeni A. How to intervene in the caries process: proximal caries in adolescents and adults-a systematic review and meta-analysis. *Clinical oral investigations*. 2020;24(5):1623-36. Wrong study design
- Tadakamadla SK, Lalloo R, Kroon J, Johnson NW. Surface-Specific Caries Preventive Effect of an Intervention Comprising Fissure Sealant, Povidone-Iodine and Fluoride Varnish in a Remote Indigenous Community in Australia. *Int J Environ Res Public Health* 2020;17. Not relevant
- Tahani B, Asgari I, Saied Moallemi Z, Azarpazhooh A. Fissure sealant therapy as a portable community-based care in deprived regions: Effectiveness of a clinical trial after 1 year follow-up. *Health Soc Care Community* 2020. Not relevant
- Tellez M, Gomez J, Kaur S, Pretty IA, Ellwood R, Ismail AI. Non-surgical management methods of noncavitated carious lesions. *Community Dent Oral Epidemiol* 2013;41:79-96. Not relevant
- Trairatvorakul C, Itsaraviriyakul S, Wiboonchan W. Effect of glass-ionomer cement on the progression of proximal caries. *J Dent Res* 2011;90:99-103. Not relevant

Urquhart O, Tampi MP, Pilcher L, Slayton RL, Araujo MWB, Fontana M, et al. Nonrestorative Treatments for Caries: Systematic Review and Network Meta-analysis. <i>J Dent Res</i> 2019;98:14-26.	Wrong study design
Use of Pit-and-Fissure Sealants. <i>Pediatr Dent</i> 2017;39:156-72.	Not relevant
Use of Pit-and-Fissure Sealants. <i>Pediatr Dent</i> 2018;40:162-78.	Not relevant
Wright JT, Tampi MP, Graham L, Estrich C, Crall JJ, Fontana M, et al. Sealants for Preventing and Arresting Pit-and-fissure Occlusal Caries in Primary and Permanent Molars. <i>Pediatr Dent</i> 2016;38:282-308.	Not relevant
Wright JT, Tampi MP, Graham L, Estrich C, Crall JJ, Fontana M, et al. Sealants for preventing and arresting pit-and-fissure occlusal caries in primary and permanent molars: A systematic review of randomized controlled trials-a report of the American Dental Association and the American Academy of Pediatric Dentistry. <i>J Am Dent Assoc</i> 2016;147:631-45.e18.	Duplicate
Yengopal V, Mickenautsch S, Bezerra AC, Leal SC. Caries-preventive effect of glass ionomer and resin-based fissure sealants on permanent teeth: a meta analysis. <i>J Oral Sci</i> 2009;51:373-82.	Not relevant
Yoo HK, Kim SH, Kim SI, Shin YS, Shin SJ, Park JW. Seven-year Follow-up of Resin Infiltration Treatment on Noncavitated Proximal Caries. <i>Oper Dent</i> 2019;44:8-12.	Not relevant
Zakizade M, Davoudi A, Akhavan A, Shirban F. Effect of Resin Infiltration Technique on Improving Surface Hardness of Enamel Lesions: A Systematic Review and Meta-analysis. <i>J Evid Based Dent Pract</i> 2020;20:101405.	Not relevant

Studies with high risk of bias

Reference

Abuchaim C, Rotta M, Grande RH, Loguercio AD, Reis A. Effectiveness of sealing active proximal caries lesions with an adhesive system: 1-year clinical evaluation. *Braz Oral Res* 2010;24:361-7.

Arslan S, Kaplan MH. The Effect of Resin Infiltration on the Progression of Proximal Caries Lesions: A Randomized Clinical Trial. *Med Princ Pract* 2020;29:238-43.