



SYSTEMATIC REVIEWS: ORTHODONTICS

Adverse effects of removable orthodontic aligners: A systematic review with single-arm meta-analysis	PLoS ONE 2026; 21(7): e0350741
Predictability of maxillary transverse changes with Invisalign in adults: a systematic review and meta-analysis	Medicine 2026; 105(30): e49772
The effect of pharmacological and non-pharmacological interventions on pain control after orthodontic treatment: a systematic review and network meta-analysis	BMC Oral Health 2026; 26(1): article 407
Predictability of clear aligners in achieving planned dental arch expansion during mixed dentition: a systematic review and meta-analysis	Angle Orthodont 2026; 96(4): 469-481
Effectiveness of varying alternating rapid maxillary expansions and constrictions (Alt-RAMEC) durations on maxillary protraction in noncleft Class III malocclusion: a systematic review and meta-analysis	J World Fed Orthodont 2026; 15(2): 95-109
Impact of clear aligners on the oral microbiome: a systematic review of current evidence	Clin Exp Dent Res 2026; 12(2): e70265
Impact of clear aligners on the temporomandibular joint: a systematic review	Orthodont Craniofac Res 2026; 29(2): 209-224
Effectiveness of deciduous molar anchorage for rapid maxillary expansion: a systematic review and meta-analysis	Angle Orthodont 2026; 96(2): 231-242
Clear aligners in extraction-based orthodontic treatment: a systematic review and meta-analysis [Accessible from the Wiley link on this page]	Orthodont Craniofac Res 2026; 29(1): 12-29
Oral irrigator versus dental floss in orthodontic patients: a systematic review and meta-analysis [Accessible from the Wiley link on this page]	Int J Dent Hyg 2026; 24(1): 85-93
Long-term effects of three different appliances for rapid maxillary expansion: a systematic review and meta-analysis	Int Dent J 2026; 76(1): 104024
Orthodontic treatment and oral microbiota changes: a systematic review of oral dysbiosis revealed by 16S rRNA gene analysis	Angle Orthodont 2025; 96(1): 114-124
Research hotspots and emerging trends of orthodontic-related discomfort and pain: a bibliometric review	Pain Res Management 2025; 2025: 3757286
Biocompatibility of direct printed clear aligners: A systematic review of in vitro studies	Int Orthodont 2025; 23(4): 101028
Evaluation of different methods of correcting deep bite in adult and adolescent patients: a systematic review and meta-analysis	Progress Orthodont 2025; 26(1): 37
Patient trust in artificial intelligence for orthodontic advice: A systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Amer Dent Assoc 2025; 156(11): 931-944



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Effectiveness and accuracy of clear aligners in non-extraction Class II correction: a systematic review of maxillary molar distalization and rotation in the permanent dentition	Angle Orthodont 2025; 95(6): 683-696
Oral Candida in orthodontic patients wearing removable orthodontic appliances: a systematic review and meta-analysis	Int Dent J 2025; 75(5): 100905
Accuracy of artificial intelligence in orthodontic extraction treatment planning: a systematic review and meta analysis	BMC Oral Health 2025; 25(1): 1576
Effects of chemotherapeutic vs regular toothpastes on dental plaque and gingival inflammation in orthodontic patients with fixed appliances: a systematic review and meta-analysis	Angle Orthodont 2025; 95(5): 550-562
Predictability of mesiodistal movement of upper and lower molars with clear aligners: a systematic review	Angle Orthodont 2025; 95(5): 563-571
Analysis of the efficacy of conventional, skeletal and invisible orthodontic appliance for upper molar distalization in Class II malocclusion patients: a systematic review and meta-analysis	BMC Oral Health 2025; 25(1): 1396
Photobiomodulation and orthodontic root resorption: A systematic review and meta-analysis	Photodiagnosis Photodyn Ther 2025; 54: 104659
Precision wings treating skeletal class II in growing patients: a systematic review and meta-analysis	Progress Orthodont 2025; 26(1): 16
Arch perimeter changes with passive self-ligating bracket system: a systematic review and meta analysis	BMC Oral Health 2025; 25(1): 836
Soft tissue changes associated with Class III orthopaedic treatment in growing patients: a systematic review and meta-analysis	Progress Orthodont 2025; 26(1): 10
White spot lesion in self-ligating versus conventional ligating bracket systems: A systematic review	J Int Med Res 2025; 53(4): 3000605251328608
Unveiling the role of artificial intelligence applied to clear aligner therapy: A scoping review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2025; 154: 105564
Extraction of premolars in orthodontic treatment does not negatively affect upper airway volume and minimum cross-sectional area: a systematic review with meta-analysis	Eur J Orthodont 2025; 47(2): cjaf012
Evaluating the success rates and effectiveness of surgical and orthodontic interventions for impacted canines: a systematic review of surgical and orthodontic interventions and a case series	BMC Oral Health 2025; 25(1): 295
Skeletal and dental open bite treatment using clear aligners and orthodontic miniscrew-anchored fixed appliances in permanent dentition: A systematic review	J World Fed Orthodont 2025; 14(1): 46-63
Probiotics for maintaining oral health during fixed orthodontic treatment: a systematic review and meta-analysis [Accessible from the Wiley link on this page]	Int J Dent Hyg 2025; 23(1): 100-113
Can orthodontic adhesive systems inhibit the formation and development of white spot lesions during fixed orthodontic treatment? a systematic review	J Adhes Dent 2024; 26: 241-252



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The effectiveness of oral irrigators on periodontal health status and oral hygiene of orthodontic patients: a systematic review and meta-analysis	BMC Oral Health 2024; 24(1): 1469
The biomechanical effects of clear aligner trimline designs and extensions on orthodontic tooth movement: a systematic review	BMC Oral Health 2024; 24(1): 1523
Three-dimensional changes in the mandibular condyle in skeletal class III patients treated with orthognathic surgery: a systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Brit J Oral Maxillofac Surg 2024; 62(10): 909-916
The role of psychology and communication skills in orthodontic practice: a systematic review	BMC Med Educ 2024; 24(1): 1472
Efficacy of typodont and simulation training in orthodontic education: a systematic review	BMC Med Educ 2024; 24(1): 1443
Occlusal outcome of orthodontic treatment: a systematic review with meta-analyses of randomized trials	Eur J Orthodont 2024; 46(6): cjae060
Skeletal and dental effects of forsus fatigue resistance device versus twin block appliance for class ii malocclusion treatment in growing patients: a systematic review	Clin Experiment Dent Res 2024; 10(6): e70054
Root resorption in clear aligner treatment detected by CBCT: a systematic review and meta-analysis	Int Dent J 2024; 74(6): 1326-1336
Spontaneous space closure after extraction of permanent first molars in children and adolescents: a systematic review and meta-analysis	Eur J Orthodont 2024; 46(6): cjae054
Is the quality of the orthodontic information in social media platforms reliable?: a systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Amer Dent Assoc; 155(10): 845-857
Association between orthodontic treatment and upper airway changes in children assessed with cone-beam computed tomography (CBCT): a systematic review	J Oral Rehabil 2024; 51(10): 2195-2208
Can orthodontic adhesive systems inhibit the formation and development of white spot lesions during fixed orthodontic treatment? a systematic review	J Adhesive Dent 2024; 26: 241-252
The quality of Web-based orthodontic information: A scoping review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2024; 166(4): 313-329
Periodontal outcomes of surgically exposed and orthodontically aligned buccally impacted maxillary canines: A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	J Orthodont 2024; 51(3): 270-282
Orthodontic treatment in patients with atypical swallowing and malocclusion: a systematic review	J Clin Pediatr Dent 2024; 48(5): 14-26



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Dentoalveolar, periodontal and skeletal effects of maxillary expansion techniques assisted by temporary anchorage devices compared with conventional protocols in growing patients with transverse maxillary deficiency: A systematic review and meta-analysis	Int Orthodont 2024; 22(3): 100891
Pain and root resorption due to surgical interventions to accelerate tooth movement in orthodontics: A systematic review and meta-analysis	Dent Med Prob 2024; 61(3): 427-438
Boundary of mandibular molar distalization in orthodontic treatment: a systematic review and meta-analysis	Orthodont Craniofac Res 2024; 27(4): 515-526
Influence of elastomeric and steel ligatures on periodontal health during fixed appliance orthodontic treatment: a systematic review and meta-analysis	Progress Orthodont 2024; 25(1):24
Artificial intelligence for treatment planning and soft tissue outcome prediction of orthognathic treatment: A systematic review	J Orthodont 2024; 51(2): 107-119
Orthodontic correction of anterior open bite using skeletal anchorage: systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Int J Oral Maxillofac Surg 2024; 53(5): 393-404
Effectiveness of dental monitoring system in orthodontics: A systematic review	J Orthodont 2024; 51(1): 28-40
Distribution of initial caries lesions in relation to fixed orthodontic therapy. A systematic review and meta-analysis	Eur J Orthodont 2024; 46(2): cjae008
The effect of surface roughening on the success of orthodontic mini-implants: A systematic review and meta-analysis	Am J Orthod Dentofac Orthop 2024; 165(3): 262-271
The effectiveness of dental water jet in reducing dental plaque and gingival bleeding in orthodontic patients: A systematic review and meta-analysis of randomized clinical trials [Accessible from the Wiley link on this page]	Int J Dent Hyg 2024; 22(1): 56-64
Long-term stability of posterior crossbite correction, treated in the mixed or permanent dentition of growing children: A systematic review and meta-analysis	Orthodont Craniofac Res 2024; 27(1): 1-14
Patients' perception of orthodontic retainers: a systematic review (request using https://www.smartsurvey.co.uk/s/PJHMY/)	Eur J Orthodont 2024; 46 (1): cjad068
The effectiveness of interventions in reducing pain related to orthodontic separation: a systematic review and meta-analysis (request using https://www.smartsurvey.co.uk/s/PJHMY/)	Eur J Orthodont 2024; 46 (1): cjad078
Effect of mandibular third molars on crowding of mandibular teeth in patients with or without previous orthodontic treatment: a systematic review and meta-analysis	Angle Orthodont 2024; 94(1): 122-132
Effectiveness of miniscrew-supported maxillary molar distalization according to temporary anchorage device features and appliance design: systematic review and meta-analysis	Angle Orthodont 2024; 94(1): 107-121



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Extraction vs nonextraction orthodontic treatment: a systematic review and meta-analysis	Angle Orthodont 2024; 94(1): 83-106
Patient compliance with removable orthodontic retainers during retention phase: a systematic review	J Calif Dent Assoc 2023; 51(1): 2243016
Leveling the curve of Spee using different sized archwires: a randomized clinical trial of blood flow changes [can be accessed on DOSS free by logging in on this page]	Clin Oral Invest 2023; 27 (6): 2943-55
The prevalence of the failure of fixed orthodontic bonded retainers: a systematic review and meta-analysis	Eur J Orthodont 2023; 45 (6): 645-661
Assessment of the efficacy of various maxillary molar intrusion therapies: a systematic review	Progress Orthodont 2023; 24(1): 37
The efficacy of chewing gum in the reduction of orthodontic pain at its peak intensity: a systematic review and meta-analysis	Angle Orthodont 2023; 93(5): 580-590
Interventions to facilitate the successful eruption of impacted maxillary incisor teeth due to the presence of a supernumerary: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2023; 163 (5): 594-608
Efficiency of Invisalign First® to promote expansion movement in mixed dentition: a retrospective study and systematic review	Eur J Paediatr Dent 2023; 24(2): 112-123
Insight on the influence of technology-enhanced learning in orthodontics education: A systematic review [Accessible from the Wiley link on this page]	Eur J Dent Ed 2023; 27(3): 729-745
Long-term effectiveness of non-surgical open-bite treatment: a systematic review and meta-analysis	Progress Orthodont 2023; 24(1): 18
Sugar-free chewing gum versus conventional analgesic drugs for pain relief with fixed orthodontic appliances. A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	J Orthodont 2023; 50(2): 215-228
Malocclusions and quality of life among adolescents: a systematic review and meta-analysis	Eur J Orthodont 2023; 45 (3): 295-307
Spontaneous changes in mandibular incisor crowding from mixed to permanent dentition: a systematic review	Progress Orthodont 2023; 24(1): 15
Clinical bracket failure rates between different bonding techniques: a systematic review and meta-analysis	Eur J Orthodont 2023; 45(2): 175-185
Adverse effects of orthodontic forces on dental pulp. Appearance and character. A systematic review	Acta Odontol Scand 2023; 81(4): 267-277



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Effects of bonded spurs, fixed and removable palatal crib in the early treatment of anterior open bite: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2023; 163(3): 298-310
The effect of orthodontic treatment on smile attractiveness: a systematic review	Progress Orthodont 2023; 24(1): 4
Duration of canine retraction with fixed appliances: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2023; 163(2): 154-172
Orthodontic treatment in periodontally compromised patients: a systematic review	Clin Oral Invest 2023; 27(1): 79-89
The effectiveness of adjuncts or alternatives to the use of orthodontic retainers in preserving posttreatment outcomes: A systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2023; 163(1): 9-21.e3
A non-cephalometric three-dimensional appraisal of soft tissue changes by functional appliances in orthodontics: a systematic review and meta-analysis	Eur J Orthodont 2022; 44 (4): 458-67
Comparison of rapid versus slow maxillary expansion on patient-reported outcome measures in growing patients: a systematic review and meta-analysis	Progress Orthodont 2022; 23(1): 47
Clinical effectiveness of the Eruption Guidance Appliances in treating malocclusion in the mixed dentition: A systematic review and meta-analysis [Accessible from the Wiley link on this page]	Int J Paediatr Dent 2022; 32(6): 843-855
Orthodontic compliance assessment: a systematic review	Int Dent J 2022; 72(5): 597-606
Three-dimensional morphologic changes in the temporomandibular joint in asymptomatic patients who undergo orthodontic treatment: a systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2022; 134(3): 397-406
Effect of combined periodontal and orthodontic treatment of tilted molars and of teeth with intra-bony and furcation defects in stage-IV periodontitis patients: A systematic review [Accessible from the Wiley link on this page]	J Clin Periodontol 2022; 49 (Suppl 24): 121-148
Effect of periodontal-orthodontic treatment of teeth with pathological tooth flaring, drifting, and elongation in patients with severe periodontitis: A systematic review with meta-analysis [Accessible from the Wiley link on this page]	J Clin Periodontol 2022; 49 (Suppl 24): 102-120
Effect of orthodontic therapy in periodontitis and non-periodontitis patients: a systematic review with meta-analysis [Accessible from the Wiley link on this page]	J Clin Periodontol 2022; 49 (Suppl 24): 72-101



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Microbial colonisation associated with conventional and self-ligating brackets: a systematic review [can be accessed on DOSS free by logging in on this page]	J Orthodont 2022; 49(2): 151-162
The consequences of living with a severe malocclusion: a review of the literature [can be accessed on DOSS free by logging in on this page]	J Orthodont 2022; 49(2): 228-239
Chlorhexidine mouthwash for gingivitis control in orthodontic patients : a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Oral Health Prevent Dent 2022; 20(1): 279-294
The effectiveness of interventions to increase patient involvement in decision-making in orthodontics: a systematic review [can be accessed on DOSS free by logging in on this page]	J Orthodont 2022; 49(2): 129-142
Comparison of orthodontic root resorption of root-filled and vital teeth: a meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Amer Dent Assoc 2022; 153(6): 532-541.e7
The effectiveness of the early orthodontic correction of functional unilateral posterior crossbite in the mixed dentition period: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Progress Orthodont 2022; 23(1): 5
Prevalence of mandibular asymmetry in different skeletal sagittal patterns	Angle Orthodont 2022; 92(1): 118-126
Effect of surface treatment on the mechanical stability of orthodontic miniscrews	Angle Orthodont 2022; 92(1): 127-136
Association between orthodontic force and dental pulp changes: a systematic review of clinical and radiographic outcomes [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Endod 2022; 48(3): 298-311
The influence of mobile applications and social media-based interventions in producing behavior change among orthodontic patients: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2022; 161(3): 338-354
Efficacy of herbal- versus chlorhexidine-based mouthwashes towards oral hygiene maintenance in patients undergoing fixed orthodontic therapy: A systematic review and meta-analysis [Accessible from the Wiley link on this page]	Int J Dent Hyg 2022; 20(1): 100-111
Duration of tooth alignment with fixed appliances: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2022; 161(1): 20-36



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Orthodontic treatment for crowded teeth in children	Cochrane Database Sys Rev 2021; CD003453
A systematic review on the effectiveness of organic unprocessed products in controlling gingivitis in patients undergoing orthodontic treatment with fixed appliances [can be accessed on DOSS free by logging in on this page]	Clin Experiment Dent Res 2021; 7(5): 664-671
Orthodontic treatment for posterior crossbites	Cochrane Database Sys Rev 2021; CD000979
Predictability of rotational tooth movement with orthodontic aligners comparing software-based and achieved data: A systematic review and meta-analysis of observational studies [can be accessed on DOSS free by logging in on this page]	J Orthodont 2021; 48(3): 277-287
Do orthodontic tooth movements induce pulp necrosis? A systematic review [Accessible from the Wiley link on this page]	Int Endod J 2021; 54(8): 1246-1262
Effects of low-level laser therapy on the orthodontic mini-implants stability: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Progress Orthodont 2021; 22(1): 6
The effectiveness of surgical adjunctive procedures in the acceleration of orthodontic tooth movement: A systematic review of systematic reviews and meta-analysis [can be accessed on DOSS free by logging in on this page]	J Orthodont 2021; 48(2): 156-171
MicroRNAs in oral fluids (saliva and gingival crevicular fluid) as biomarkers in orthodontics: systematic review and integrated bioinformatic analysis [can be accessed on DOSS free by logging in on this page]	Progress Orthodont 2021; 22(1): 31
Pharyngeal airway dimensional changes after orthodontic treatment with premolar extractions: A systematic review with meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2021; 160(4): 503-515.e3
Genetic variation involved in the risk to external apical root resorption in orthodontic patients: a systematic review [can be accessed on DOSS free by logging in on this page]	Clin Oral Invest 2021; 25(10): 5613-5627
Rapid maxillary expansion for interceptive orthodontic treatment of palatally displaced canine: A systematic review	Eur J Paediatr Dent 2021; 22(2): 139-143
Dento-skeletal effects produced by rapid versus slow maxillary expansion using fixed jackscrew expanders: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Eur J Orthodont 2021; 43(3): 301-312



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Efficacy of Miniscrew-Assisted Rapid Palatal Expansion (MARPE) in late adolescents and adults: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Eur J Orthodont 2021; 43(3): 313-323
Orthodontically induced root resorption: A critical analysis of finite element studies' input and output [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthodont Dentofac Orthoped 2021; 159(6): 779-789
Three-dimensional changes of the upper airway in patients with Class II malocclusion treated with functional appliances: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Eur J Orthodont 2021; 43(4): 415-423
A comparison of the effects of Forsus appliances with and without temporary anchorage devices for skeletal Class II malocclusion	Angle Orthodont 2021; 91(2): 255-266
Orthodontic treatment and root resorption: an overview of systematic reviews [can be accessed on DOSS free by logging in on this page]	Eur J Orthodont 2021; 43(4): 442-456
Efficacy of behaviour change techniques to improve oral hygiene control of individuals undergoing orthodontic therapy. A systematic review [Accessible from the Wiley link on this page]	Int J Dent Hyg 2021; 19(1): 3-17
Skeletally anchored forsus fatigue resistant device for correction of Class II malocclusions-A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Orthod Craniofac Res 2021; 24(1): 52-61
The effect of the local administration of biological substances on the rate of orthodontic tooth movement: a systematic review of human studies [can be accessed on DOSS free by logging in on this page]	Progress Orthodont 2021; 22(1): 5
Distalization of maxillary molars using temporary skeletal anchorage devices: A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Orthod Craniofac Res 2021; 24 Suppl 1: 103-112
Evaluation of long-term hard tissue relapse following surgical-orthodontic treatment in skeletal class II patients: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Int J Oral Maxillofac Surg 2021; 50(4): 477-486
The relationship between malocclusion and oral health-related quality of life among adolescents: a systematic literature review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Eur J Orthodont 2021; 43(2): 173-183
Evaluation of root resorption following orthodontic intrusion: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Eur J Orthodont 2021; 43(4): 432-441



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Treatment effect of bone-anchored maxillary protraction in growing patients compared to controls: a systematic review with meta-analysis [can be accessed on DOSS free by logging in [on this page](#)]

Eur J Orthodont 2021; 43(1): 51-68

Comparison between conventional and piezocision-assisted orthodontics in relieving anterior crowding: a systematic review and meta-analysis [can be accessed on DOSS free by logging in [on this page](#)]

Eur J Orthodont 2021; 43(3): 360-366

Alveolar bone changes in maxillary and mandibular anterior teeth during orthodontic treatment: A systematic review and meta-analysis [can be accessed on DOSS free by logging in [on this page](#)]

Orthod Craniofac Res 2021; 24(2): 165-179

Comparison of external apical root resorption with clear aligners and pre-adjusted edgewise appliances in non-extraction cases: a systematic review and meta-analysis [can be accessed on DOSS free by logging in [on this page](#)]

Eur J Orthodont 2021; 43(1): 15-24