

Supplementary material

Appendix 1. Additional review details and deviations from the protocol.

Deviations from the protocol
Several factors were planned to be assessed through subgroup analyses/meta-regressions in meta-analyses of at least 5 studies, but they could not be ultimately conducted due to limited material/reporting: (i) subsets according to the patient sample characteristics (age, sex, malocclusion type, malocclusion severity, skeletal configuration); (ii) subsets according to any additional appliances/adjuncts used in treatment; (iii) the operator's experience with each system. Additionally, sensitivity analyses regarding i) inclusion/exclusion of non-randomized studies and (ii) improvement of the GRADE classification were not performed.

Appendix 2. Eligibility criteria for the inclusion of primary studies.

	Inclusion criteria	Exclusion criteria
Patients	Human patients of any age, sex, ethnicity, or malocclusion	Systemic diseases, syndromes, disorders
Intervention	Any orthodontic treatment with fixed appliances	No fixed appliances
Control	Adolescent patients (up to 18 years, unless otherwise noted)	-
Outcome	Treatment duration in months	-
Studies	Randomized and prospective or retrospective non-randomized clinical trials	Animal studies, case reports/series, non-clinical studies, and cross-sectional studies

Appendix 3. Literature search (as of September 28th, 2019) for each database with the corresponding hits.

Databank	Search	Limits	Hits
MEDLINE (through PubMed)	orthodon* AND (therap* OR treatm*) AND (adult* OR overage* OR old* OR elder* OR senior* OR mature* OR "non-growing") AND (adolesc* OR underage* OR young* OR child* OR teen* OR juvenile* OR immature* OR youth* OR growing) AND (duration* OR "treatment time")	Humans	479
Embase	Same as MEDLINE	Human	191
Web of Knowledge	Same as MEDLINE	DENTISTRY ORAL SURGERY MEDICINE	562
Scopus	TITLE-ABS-KEY (orthodon* AND (therap* OR treatm*) AND (adult* OR overage* OR old* OR elder* OR senior* OR mature* OR "non-growing") AND (adolesc* OR underage* OR young* OR child* OR teen* OR juvenile* OR immature* OR youth* OR growing) AND (duration* OR "treatment time")) AND (LIMIT-TO (SUBJAREA , "DENT"))	Dentistry	375
CDSR	Same as MEDLINE		4
DARE	Same as MEDLINE		0
CENTRAL	Same as MEDLINE		71
Virtual Health Library	Same as MEDLINE		36
SUM (with overlaps)			1718
SUM (without overlaps)			800

CDSR, Cochrane Database of Systematic Reviews; DARE, Cochrane Database of Abstracts of Reviews of Effects; CENTRAL, Cochrane Central Register of Controlled Trials.

Appendix 4. List of studies identified from the literature search and their inclusion/exclusion status with reasons.

Nr	Paper	Status
1	{ACTRN12615000341527} Efficacy of oral probiotics in improving oral hygiene for orthodontic patients. 2015.	Excluded by title
2	{CTRI/2018/12/016793} New Approach For Faster Tooth Movement. 2018.	Excluded by title
3	{DRKS00012463} Duration of tooth brushing with a manual and an electric toothbrush in children and adults with fixed appliances. 2017.	Excluded by title
4	{ISRCTN05771195} An investigation of two methods of orthodontic space closure: nickel titanium versus stainless steel springs. 2013.	Excluded by title
5	{JPRN-UMIN000022182} Comprehensive clinical evaluation of indirect bonding method in orthodontic treatment. 2016.	Excluded by title
6	{NCT02659813} Orthodontic Archwire Effectiveness Trial. 2016.	Excluded by title
7	{NCT03251807} Effect of Low-Intensity Pulsed Ultrasound on Functional Treatment of Class II Malocclusion. 2017.	Excluded by title
8	{NCT03547531} Comparison of Modified Circular and Natural Tooth Brushing Methods in Effectiveness of Dental Plaque Removal. 2018.	Excluded by title
9	{NCT03641119} Orthodontic Approaches to Correct Deep Bite in Mixed Dentition Patients. 2018.	Excluded by title
10	Abellán R, Gómez C, Iglesias-Linares A, Palma JC. Impact of photodynamic therapy versus ultrasonic scaler on gingival health during treatment with orthodontic fixed appliances. <i>Lasers in Surgery and Medicine</i> . 2019;51(3):256-67.	Excluded by title
11	Aboul-Ela SMBED, El-Beialy AR, El-Sayed KMF, Selim EMN, El-Mangoury NH, Mostafa YA. Miniscrew implant-supported maxillary canine retraction with and without corticotomy-facilitated orthodontics. <i>Am J Orthod Dentofacial Orthop</i> 2011;139(2):252-9.	Excluded by title
12	Abtahi M, Jahanbin A, Yaghoubi M, Esmaily H, Zare H. Are more nickel ions accumulated in the hair of fixed orthodontic patients? <i>Indian J Dent Res</i> . 2013;24(3):298-301.	Excluded by title
13	Afzal A, Qamruddin I. Relation between centric slide and Angle's classification. <i>J Coll Physicians Surg Pak</i> . 2005;15(8):481-4.	Excluded by title
14	Agaoglu G, Arun T, Izgi B, Yarat A. Nickel and chromium levels in the saliva and serum of patients with fixed orthodontic appliances. <i>Angle Orthod</i> . 2001;71(5):375-9.	Excluded by title
15	Ahmed I, Saif ul H, Nazir R. Carious lesions in patients undergoing orthodontic treatment. <i>Journal of the Pakistan Medical Association</i> . 2011;61(12):1176-9.	Excluded by title
16	Aileni KR, Rachala MR. Early treatment of class III malocclusion with Petit facemask therapy. <i>Int J Orthod Milwaukee</i> . 2011;22(4):41-5.	Excluded by title
17	Akbulut N, Altan A, Akbulut S, Atakan C. Evaluation of the 3 mm Thickness Splint Therapy on Temporomandibular Joint Disorders (TMDs). <i>Pain Res Manag</i> . 2018;2018:3756587.	Excluded by title
18	Akhare PJ, Daga AM, Pharande S. Rapid canine retraction and orthodontic treatment with dentoalveolar distraction osteogenesis. <i>Journal of Clinical and Diagnostic Research</i> . 2012;5(7):1473-7.	Excluded by title
19	Al-Ainawi KI, Al-Mdallal Y, Hajeer MY. The Effect of Using a Modified Dentoalveolar Distractor on Canine Angulation following Rapid Canine Retraction: A Split-mouth Design Randomized Controlled Trial. <i>J Contemp Dent Pract</i> . 2016;17(1):49-57.	Excluded by title
20	Alam MK, Imran A, Enezei HH, Shahid F, Nowrin SA, Rahman SA. Inter disciplinary management of maxillary lateral incisors agenesis with implant prostheses: A case report. <i>International Journal of Pharma and Bio Sciences</i> . 2015;6(3):B1185-B93.	Excluded by title
21	Albaker BK, Wong RWK. Diagnosis and management of root resorption by erupting canines using cone-beam computed tomography and fixed palatal appliance: A case report. <i>Journal of Medical Case Reports</i> . 2010;4.	Excluded by title
22	Alberconi TF, Siqueira GLC, Sathler R, Kelly KA, Garib DG. Assessment of Orthodontic Burden of Care in Patients With Unilateral Complete Cleft Lip and Palate. <i>Cleft Palate Craniofac J</i> . 2018;55(1):74-8.	Excluded by title
23	Alessandri-Bonetti G, D'Anto V, Stipa C, Rongo R, Incerti-Parenti S, Michelotti A. Dentoskeletal effects of oral appliance wear in obstructive sleep apnoea and snoring patients. <i>Eur J Orthod</i> . 2017;39(5):482-8.	Excluded by title
24	Alfaro-Moctezuma P, Osorno-Escareno MD, Nuno-Licona A, Leiva-Cartes F, Angeles-Medina F. Effects of orthodontic treatment on the inhibitory masseteric reflex. <i>Revista De Investigacion Clinica-Clinical and Translational Investigation</i> . 2003;55(3):289-96.	Excluded by title
25	Alfaro-Moctezuma P, Osorno-Escareno Mdel C, Nuno-Licona A, Leiva-Cartes F, Angeles-Medina F. (Effects of orthodontic treatment on the masseter muscle inhibitory reflex). <i>Rev Invest Clin</i> . 2003;55(3):289-96.	Excluded by title
26	Alfawal AMH, Hajeer MY, Ajaj MA, Hamadah O, Brad B. Evaluation of piezocision and laser-assisted flapless corticotomy in the acceleration of canine retraction: a randomized controlled trial. <i>Head Face Med</i> . 2018;14(1):4.	Excluded by title
27	Alhaija ESA, Al-Saif EM, Taani DQ. Periodontal health knowledge and awareness among subjects with fixed orthodontic appliance. <i>Dental Press J Orthod</i> . 2018;23(5):40.e1-.e9.	Excluded by title
28	Ali Z, Shafique S, Sheikh AA, Hussain SS. Three years audit of maxillofacial trauma at Abbasi Shaheed Hospital, Karachi. <i>Medical Forum Monthly</i> . 2014;25(5):73-6.	Excluded by title
29	Allereau B, Sabouni W. (Perception of pain in orthodontic treatment with thermoformed aligners). <i>Orthod Fr</i> . 2017;88(4):383-9.	Excluded by title

30	Al-Melh MA, Andersson L. The effect of a lidocaine/prilocaine topical anesthetic on pain and discomfort associated with orthodontic elastomeric separator placement. <i>Prog Orthod.</i> 2017;18(1):1.	Excluded by title
31	Alqerban A, Willems G, Bernaerts C, Vangastel J, Politis C, Jacobs R. Orthodontic treatment planning for impacted maxillary canines using conventional records versus 3D CBCT. <i>Eur J Orthod.</i> 2014;36(6):698-707.	Excluded by title
32	Al-Saleem AI, Al-Jobair AM. Possible association between acetazolamide administration during pregnancy and multiple congenital malformations. <i>Drug Design, Development and Therapy.</i> 2016;10:1471-6.	Excluded by title
33	Altug Z, Akcam OU. Treatment of a young adult with Class III malocclusion using a modified mini maxillary protractor: a case report. <i>J Oral Sci.</i> 2010;52(1):155-9.	Excluded by title
34	Alwas-Danowska HM. The effect of direct and alternating electrical currents on the vessel walls of the tooth pulp - TEM studies. <i>Folia Morphologica.</i> 2004;63(1):137-9.	Excluded by title
35	Amin M. Postpubertal cherubism with noonan syndrome. <i>Journal of the College of Physicians and Surgeons Pakistan.</i> 2014;24:S39-S40.	Excluded by title
36	Antoszewska J, Papadopoulos MA, Park HS, Ludwig B. Five-year experience with orthodontic miniscrew implants: a retrospective investigation of factors influencing success rates. <i>Am J Orthod Dentofacial Orthop.</i> 2009;136(2):158.e1-10; discussion -9.	Excluded by title
37	Anwar N, Fida M. Clinical applicability of variations in arch dimensions and arch forms among various vertical facial patterns. <i>J Coll Physicians Surg Pak.</i> 2011;21(11):685-90.	Excluded by title
38	Anwar N, Fida M. Evaluation of dentoalveolar compensation in skeletal class II malocclusion in a Pakistani University Hospital setting. <i>J Coll Physicians Surg Pak.</i> 2009;19(1):11-6.	Excluded by title
39	Anwar N, Fida M. Variability of arch forms in various vertical facial patterns. <i>J Coll Physicians Surg Pak.</i> 2010;20(9):565-70.	Excluded by title
40	Arad I, Jandu J, Bassett P, Fleming PS. Influence of single-jaw surgery vs bimaxillary surgery on the outcome and duration of combined orthodontic-surgical treatment. <i>Angle Orthod.</i> 2011;81(6):983-7.	Excluded by title
41	Araujo EA, Araujo CV, Tanaka OM. Apicotomy: Surgical management of maxillary dilacerated or ankylosed canines. <i>Am J Orthod Dentofacial Orthop</i> 2013;144(6):909-15.	Excluded by title
42	Ari-Demirkaya A, Masry MA, Erverdi N. Apical root resorption of maxillary first molars after intrusion with zygomatic skeletal anchorage. <i>Angle Orthod.</i> 2005;75(5):761-7.	Excluded by title
43	Aristizabal JF, Martinez-Smit R, Diaz C, Pereira Filho VA. Surgery-first approach with 3D customized passive self-ligating brackets and 3D surgical planning: Case report. <i>Dental Press J Orthod.</i> 2018;23(3):47-57.	Excluded by title
44	Arponen H, Vuorimies I, Haukka J, Valta H, Waltimo-Siren J, Makitie O. Cranial base pathology in pediatric osteogenesis imperfecta patients treated with bisphosphonates. <i>J Neurosurg Pediatr.</i> 2015;15(3):313-20.	Excluded by title
45	Ashraf I, Ashraf S, Mohammad N, Alam MK. Pharmacist-strengthen adherence to antiretroviral therapy and the contributing factors among HIV-infected paediatric patients in Nigeria. <i>Bangladesh Journal of Medical Science.</i> 2017;16(2):281-8.	Excluded by title
46	Asiry MA. Anterior open bite treated with myofunctional therapy and palatal crib. <i>J Contemp Dent Pract.</i> 2015;16(3):243-7.	Excluded by title
47	Askar J. European College of Orthodontics: Commission of affiliation and titularisation. <i>Int Orthod.</i> 2018;16(4):776-89.	Excluded by title
48	Austin DF, Chaiyongsirisern A, Yang Y, Wong RWK, Rabie ABM. A protocol for improved stability with Herbst Appliance Treatment for adults. <i>Progress in Orthodontics.</i> 2010;11(2):151-6.	Excluded by title
49	Awasthi E, Sanjay K, Bhonghade ML, Shrivastav S. Alveolar bone housing- A modified wilkodontics approach- A case report. <i>Journal of Clinical and Diagnostic Research.</i> 2016;10(8):ZD12-ZD5.	Excluded by title
50	Baccetti T, Franchi L, McNamara Jr JA. Growth in the Untreated Class III Subject. <i>Seminars in Orthodontics.</i> 2007;13(3):130-42.	Excluded by title
51	Baek SH, Kim BM, Kyung SH, Lim JK, Kim YH. Success rate and risk factors associated with mini-implants reinstalled in the maxilla. <i>Angle Orthod.</i> 2008;78(5):895-901.	Excluded by title
52	Baek SH, Kim KW, Choi JY. New treatment modality for maxillary hypoplasia in cleft patients. Protraction facemask with miniplate anchorage. <i>Angle Orthod.</i> 2010;80(4):783-91.	Excluded by title
53	Baek SH, Park YH, Chung JH, Kim S, Choi JY. Orthodontic and orthopedic treatment for a growing patient with Tessier number 0 cleft. <i>Korean Journal of Orthodontics.</i> 2018;48(2):113-24.	Excluded by title
54	Bahammam MA. Effectiveness of bovine-derived xenograft versus bioactive glass with periodontally accelerated osteogenic orthodontics in adults: a randomized, controlled clinical trial. <i>BMC Oral Health.</i> 2016;16(1):126.	Excluded by title
55	Baik UB, Kim MR, Yoon KH, Kook YA, Park JH. Orthodontic uprighting of a horizontally impacted third molar and protraction of mandibular second and third molars into the missing first molar space for a patient with posterior crossbites. <i>Am J Orthod Dentofacial Orthop.</i> 2017;151(3):572-82.	Excluded by title
56	Baik UB, Kook YA, Bayomec M, Park JU, Park JH. Vertical eruption patterns of impacted mandibular third molars after the mesialization of second molars using miniscrews. <i>Angle Orthodontist.</i> 2016;86(4):565-70.	Excluded by title
57	Bain C, Sayed AA, Kaklamanos EG, Kazi HA. Toothbrushing-Should We Advise Mechanical or Power Brushes? Results of an International Delphi Conference. <i>The journal of contemporary dental practice.</i> 2018;19(10):1169-73.	Excluded by title
58	Baker RS, Fields HW, Jr., Beck FM, Firestone AR, Rosenstiel SF. Objective assessment of the contribution of dental esthetics and facial attractiveness in men via eye tracking. <i>Am J Orthod Dentofacial Orthop.</i> 2018;153(4):523-33.	Excluded by title
59	Barbagallo LJ, Jones AS, Petocz P, Darendeliler MA. Physical properties of root cementum: Part 10.	Excluded by title

	Comparison of the effects of invisible removable thermoplastic appliances with light and heavy orthodontic forces on premolar cementum. A microcomputed-tomography study. Am J Orthod Dentofacial Orthop. 2008;133(2):218-27.	
60	Barlow ST, Moore MB, Sherriff M, Ireland AJ, Sandy JR. Palatally impacted canines and the modified index of orthodontic treatment need. Eur J Orthod 2009;31(4):362-6.	Excluded by title
61	Bartella AK, Ghassemi M, Holze F, Ghassemi A. Reconstruction of facial soft tissue: comparison between conventional procedures and the facelift technique. Br J Oral Maxillofac Surg. 2016;54(9):1006-11.	Excluded by title
62	Bauer W, Wehrbein H, Schulte-Lenzum H, Diedrich P. Germ Transplantation or Space Closure a Comparative Study of the Loss of First Molars. Fortschritte der Kieferorthopaedie. 1991;52(2):84-92.	Excluded by title
63	Bauer W, Wehrbein H, Schulte-Lenzum H, Diedrich P. [Tooth germ transplantation or gap closure--a comparative study in the loss of the first molar]. Fortschr Kieferorthop. 1991;52(2):84-92.	Excluded by title
64	Becker A, Abramovitz I, Chaushu S. Failure of treatment of impacted canines associated with invasive cervical root resorption. Angle Orthodontist. 2013;83(5):870-6.	Excluded by title
65	Becker A, Chaushu S. Success rate and duration of orthodontic treatment for adult patients with palatally impacted maxillary canines. Am J Orthod Dentofacial Orthop. 2003;124(5):509-14.	Excluded by title
66	Bell WH, Dann IJ. Correction of dentofacial deformities by surgery in the anterior part of the jaws. A study of stability and soft-tissue changes. American Journal of Orthodontics. 1973;64(2):162-87.	Excluded by title
67	Bell WH, Yamaguchi Y, Poor MR. Treatment of temporomandibular joint dysfunction by intraoral vertical ramus osteotomy. Int J Adult Orthodon Orthognath Surg. 1990;5(1):9-27.	Excluded by title
68	Bencini AC, Bencini LE. Técnica de ortodoncia osteogénica periodontalmente acelerada: principios biológicos y etapa quirúrgica. Rev Soc Odontol La Plata. 2018;28(55):7-18.	Excluded by title
69	Bengi AO, Karacay S, Akin E, Olmez H, Okcu KM, Mermut S. Use of zygomatic anchors during rapid canine distalization: a preliminary case report. Angle Orthod. 2006;76(1):137-47.	Excluded by title
70	Benic GZ, Farella M, Morgan XC, Viswam J, Heng NC, Cannon RD, et al. Oral probiotics reduce halitosis in patients wearing orthodontic braces: A randomized, triple-blind, placebo-controlled trial. Journal of Breath Research. 2019;13(3).	Excluded by title
71	Bergstrom K, Halling A, Huggare J. Orthodontic treatment demand--differences between urban and rural areas. Community Dent Health. 1998;15(4):272-6.	Excluded by title
72	Berneburg M, Zeyher C, Merkle T, Moller M, Schaupp E, Goz G. Orthodontic findings in 4- to 6-year-old kindergarten children from southwest Germany. J Orofac Orthop. 2010;71(3):174-86.	Excluded by title
73	Bessette R, Bishop B, Mohl N. Duration of Masseteric Silent Period in Patients with Tmj Syndrome. Journal of Applied Physiology. 1971;30(6):864-8.	Excluded by title
74	Bhandari R, Thakur S, Singhal P, Chauhan D, Jayam C, Jain T. Fixed hexa-helix: An amended quad helix for a compliance driven pediatric patient- a innovative case approach. International Journal of Pharmaceutical Sciences and Research. 2018;9(8):3535-7.	Excluded by title
75	Bianchi J, Pinto ADS, Ignacio J, Obelenis Ryan DP, Goncalves JR. Effect of temporomandibular joint articular disc repositioning on anterior open-bite malocclusion: An orthodontic-surgical approach. Am J Orthod Dentofacial Orthop. 2017;152(6):848-58.	Excluded by title
76	Bindayel NA. Simple removable appliances to correct anterior and posterior crossbite in mixed dentition: Case report. Saudi Dental Journal. 2012;24(2):105-13.	Excluded by title
77	Birlutiu V, Birlutiu RM, Costache VS. Viridans streptococcal infective endocarditis associated with fixed orthodontic appliance managed surgically by mitral valve plasty. Medicine (United States). 2018;97(27).	Excluded by title
78	Boboc G, Tolea M, Oltean D, Gaucan C, Tanasescu D, Dragoi E, et al. [Contribution of immediate orthopedic-orthodontic treatment in maxillo-palatine-labial clefts]. Rev Chir Oncol Radiol O R L Oftalmol Stomatol Ser Stomatol. 1988;35(3):227-40.	Excluded by title
79	Bock NC, Ruf S. Dentoskeletal changes in adult Class II division 1 Herbst treatment-how much is left after the retention period? Eur J Orthod 2012;34(6):747-53.	Excluded by title
80	Bockow R, Korostoff J, Pinto A, Hutcheson M, Secreto SA, Bodner L, et al. Characterization and treatment of postsurgical dental implant pain employing intranasal ketorolac. Compend Contin Educ Dent. 2013;34(8):570-6.	Excluded by title
81	Bonetti GA, Parenti SI, Daprile G, Montevicchi M. Failure after closed traction of an unerupted maxillary permanent canine: Diagnosis and treatment planning. Am J Orthod Dentofacial Orthop 2011;140(1):121-5.	Excluded by title
82	Bonnet E. [Proper procedure for adhesive reconstructions with an emphasis on maintaining aesthetics: treating people from 7 to 77 years]. Orthod Fr. 2012;83(2):143-52.	Excluded by title
83	Borzabadi-Farahani A. Effect of low-level laser irradiation on proliferation of human dental mesenchymal stem cells; a systemic review. Journal of Photochemistry and Photobiology B: Biology. 2016;162:577-82.	Excluded by title
84	Bourzgui F, Sebbar M, Nadour A, Hamza M. Prevalence of temporomandibular dysfunction in orthodontic treatment. Int Orthod. 2010;8(4):386-98.	Excluded by title
85	Breuning KH, van Strijen PJ, Prah-Andersen B, Tuinzing DB. Duration of orthodontic treatment and mandibular lengthening by means of distraction or bilateral sagittal split osteotomy in patients with Angle Class II malocclusions. Am J Orthod Dentofacial Orthop. 2005;127(1):25-9.	Excluded by title
86	Brooks JK, Schwartz KG, Basile JR. Superficial mucocele of the ventral tongue: Presentation of a rare case and literature review. Journal of Oral and Maxillofacial Surgery. 2016;74(6):1175-9.	Excluded by title
87	Brugnami F, Caiazzo A, Dibart S. Lingual orthodontics: accelerated realignment of the "social six" with piezocision. Compend Contin Educ Dent. 2013;34(8):608-10.	Excluded by title
88	Burki S, Sheraz S. Skeletal relapse following orthognathic surgery in angle's class-III cases. Journal of	Excluded by title

	the College of Physicians and Surgeons Pakistan. 2002;12(2):92-6.	
89	Burns B, Grieg V, Bissell V, Savarrio L. A review of implant provision for hypodontia patients within a Scottish referral centre. <i>Br Dent J.</i> 2017;223(2):96-9.	Excluded by title
90	Buttke TM, Proffit WR. Referring adult patients for orthodontic treatment. <i>J Am Dent Assoc.</i> 1999;130(1):73-9.	Excluded by title
91	Caccianiga G, Crestale C, Cozzani M, Piras A, Mutinelli S, Lo Giudice A, et al. Low level laser therapy and invisible removal aligners. <i>Journal of Biological Regulators and Homeostatic Agents.</i> 2016;30(2):107-13.	Excluded by title
92	Cakmak F, Turk T, Sumer M. Advancement of the premaxilla with distraction osteogenesis. <i>Eur J Orthod.</i> 2014;36(3):321-30.	Excluded by title
93	Camacho M, Chang ET, Song SA, Abdullatif J, Zaghi S, Pirelli P, et al. Rapid Maxillary Expansion for Pediatric Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis. <i>Laryngoscope.</i> 2017;127(7):1712-9.	Excluded by title
94	Capistrano A, Cordeiro A, Siqueira DF, Capelozza Filho L, Cardoso Mde A, Almeida-Pedrin RR. From conventional to self-ligating bracket systems: is it possible to aggregate the experience with the former to the use of the latter? <i>Dental Press J Orthod.</i> 2014;19(3):139-57.	Excluded by title
95	Caprioglio A, Vanni A, Bolamperti L. Long-term periodontal response to orthodontic treatment of palatally impacted maxillary canines. <i>Eur J Orthod.</i> 2013;35(3):323-8.	Excluded by title
96	Cartwright G, Wright NS, Vasuvadev J, Akram S, Huppa C, Matthews NS, et al. Outcome of combined orthodontic-surgical treatment in a United Kingdom university dental institute. <i>J Orthod.</i> 2016;43(2):94-101.	Excluded by title
97	Cassetta M, Giansanti M, Di Mambro A, Calasso S, Barbato E. Minimally invasive corticotomy in orthodontics using a three-dimensional printed CAD/CAM surgical guide. <i>Int J Oral Maxillofac Surg.</i> 2016;45(9):1059-64.	Excluded by title
98	Cedströmer AL, Ahlqvist M, Andlin-Sobocki A, Berntson L, Hedenberg-Magnusson B, Dahlström L. Temporomandibular condylar alterations in juvenile idiopathic arthritis most common in longitudinally severe disease despite medical treatment. <i>Pediatric Rheumatology.</i> 2014;12(1).	Excluded by title
99	Chausu S, Becker A, Chausu G. Lingual orthodontic treatment and absolute anchorage to correct an impacted maxillary canine in an adult. <i>Am J Orthod Dentofacial Orthop.</i> 2008;134(6):811-9.	Excluded by title
100	Chausu S, Casap N, Becker A, Tzur B, Chausu G. [Orthodontic anchorage in the era of osseointegration]. <i>Refuat Hapeh Vehashinayim</i> (1993). 2006;24(3):32-45, 92.	Excluded by title
101	Chen YR, Yeow VK. Multiple-segment osteotomy in maxillofacial surgery. <i>Plast Reconstr Surg.</i> 1999;104(2):381-8.	Excluded by title
102	Chiu GSC, Chang CHN, Roberts WE. Bimaxillary protrusion with an atrophic alveolar defect: Orthodontics, autogenous chin-block graft, soft tissue augmentation, and an implant. <i>Am J Orthod Dentofacial Orthop</i> 2015;147(1):97-113.	Excluded by title
103	Cho I-S, Shin H-K, Back S-H. Preliminary study of Korean orthodontic residents' current concepts and knowledge of cleft lip and palate management. <i>Korean Journal of Orthodontics.</i> 2012;42(3):100-9.	Excluded by title
104	Choi SH, Cha JY, Lee KJ, Yu HS, Hwang CJ. Changes in psychological health, subjective food intake ability and oral health-related quality of life during orthodontic treatment. <i>J Oral Rehabil.</i> 2017;44(11):860-9.	Excluded by title
105	Choi YJ, Chung CJ, Kim KH. Periodontal consequences of mandibular incisor proclination during presurgical orthodontic treatment in Class III malocclusion patients. <i>Angle Orthod.</i> 2015;85(3):427-33.	Excluded by title
106	Choo H, Heo HA, Yoon HJ, Chung KR, Kim SH. Treatment outcome analysis of speedy surgical orthodontics for adults with maxillary protrusion. <i>Am J Orthod Dentofacial Orthop.</i> 2011;140(6):e251-62.	Excluded by title
107	Chu CH, Choy BH, Lo EC. Occlusion and orthodontic treatment demand among Chinese young adults in Hong Kong. <i>Oral Health Prev Dent.</i> 2009;7(1):83-91.	Excluded by title
108	Cioffi I, Michelotti A, Perrotta S, Chiodini P, Ohrbach R. Effect of somatosensory amplification and trait anxiety on experimentally induced orthodontic pain. <i>Eur J Oral Sci.</i> 2016;124(2):127-34.	Excluded by title
109	Cohen SC, Chase C. Human pulpal response to bleaching procedures on vital teeth. <i>Journal of Endodontics.</i> 1979;5(5):134-8.	Excluded by title
110	Condo R, Costacurta M, Perugia C, Docimo R. Atypical deglutition: diagnosis and interceptive treatment. A clinical study. <i>Eur J Paediatr Dent.</i> 2012;13(3):209-14.	Excluded by title
111	Conley RS, Boyd SB, Legan HL, Jernigan CC, Starling C, Potts C. Treatment of a patient with multiple impacted teeth. <i>Angle Orthodontist.</i> 2007;77(4):735-41.	Excluded by title
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