SUPPLEMENTARY MATERIAL

Orthopedic Treatment for Class II Malocclusion with Functional Appliances and Its Effect on Upper Airways: A Systematic Review with Meta-Analysis

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Table S1. Literature searches with resulting hits (last search date: October 20th, 2020)

Nr	Database	Search strategy	Limits	Hits
1	PubMed	(orthodon* OR orthop* OR "Class II" OR malocclusion OR (mandib* AND retrogn*)) AND ("functional appliance" OR "functional appliances" OR "bite-jumping" OR "mandibular advancement" OR Activator OR Biobloc OR Bionator OR Dynamax OR Eureka OR Forsus OR Frankel OR Fränkel OR Harvold OR Herbst OR "Jasper Jumper" OR Klammt OR "Mandibular Anterior Repositioning Appliance" OR MARA OR MiniScope OR Monobloc OR "Mono-bloc" OR PowerScope OR "R Appliance" OR Sander OR "Schwarz appliance" OR "Schwarz double platte" OR Twinblock OR "Twin-Block" OR "Twin-Blocks" OR Xbow) AND (airway* OR breath* OR "Apnea Hypopnea index" OR "Eppworth Sleepiness Scale")	-	864
2	Embase	Same as PubMed	-	130
3	CDSR	Same as PubMed	-	9
4	CENTRAL	Same as PubMed	-	164
5	DARE	Same as PubMed	-	0
6	Scopus	(TITLE-ABS-KEY ((orthodon* OR orthop* OR "Class II" OR malocclusion OR (mandib* AND retrogn*))) AND TITLE-ABS-KEY (("functional appliance" OR "functional appliances" OR "bite-jumping" OR "mandibular advancement" OR Activator OR Biobloc OR Bionator OR Dynamax OR Eureka OR Forsus OR Frankel OR Fränkel OR Harvold OR Herbst OR "Jasper Jumper" OR Klammt OR "Mandibular Anterior Repositioning Appliance" OR MARA OR MiniScope OR Monobloc OR "Mono-bloc" OR PowerScope OR "R Appliance" OR Sander OR "Schwarz appliance" OR "Schwarz double platte" OR Twinblock OR "Twin-Block" OR "Twin-Blocks" OR Xbow)) AND TITLE-ABS-KEY ((airway* OR breath* OR "Apnea Hypopnea index" OR "Eppworth Sleepiness Scale"))) AND (LIMIT-TO (SUBJAREA , "DENT"))	Dentistry	279
7	Web of Science	Same as PubMed	DENTISTRY ORAL SURGERY MEDICINE	559
8	Virtual Health Library	Same as PubMed	-	90
9	ClinicalTrials.gov	-	-	-
TOTAL				**2095**

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

Table S2. List of studies identified from the literature search and their inclusion / exclusion status, with reasons.

Nr	Paper	Status
1	{ACTRN} A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Study to Assess The Effects of Intravenous BG9928 on Body Weight in Subjects with Acute Decompensated Heart Failure and Renal Insufficiency. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=ACTRN12608000607370. 2008.	Excluded by title
2	{ACTRN} Feasibility and potential benefits of high-intensity interval cycling for knee osteoarthritic patients: a randomised control feasibility trial? http://wwwwhoint/trialsearch/Trial2aspx?TrialID=ACTRN12616000273482. 2016.	Excluded by title
3	{ACTRN} Mouthguard and positional trainer(vibrating collar) in supine sleep apnoea. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=ACTRN12618000207213. 2018.	Excluded by title
4	{CTRI} Comparison of efficacy of 2 different mouthrinses. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=CTRI/2018/01/011237. 2018.	Excluded by title
5	{CTRI} Home based exercises in pulmonary hypertension. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=CTRI/2010/091/001492. 2011.	Excluded by title
6	{DRKS} a randomized controlled trial investigating the efficacy and benefit of the health program "initiative.rücken" in members of a private health insurance with persistent unspecific low back pain. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=DRKS00015463. 2018.	Excluded by title
7	{DRKS} Influence of non-surgical and surgical orthopedic treatment on stress and depression levels, sympathetic and parasympathetic cardiovascular modulation and baroreflex sensitivity in patients with osteoarthritis. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=DRKS00004602. 2012.	Excluded by title
8	{DRKS} The spinal anesthesia with hyperbaric Lokalanästhestikum performed in the lateral position, compared to general anesthesia in outpatient anesthesia, in terms of effectiveness, process times, hemodynamic stability, perioperative complications, and postoperative pain. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=DRKS00004906. 2013.	Excluded by title
9	{Euctr FR} A double-blind, randomized, placebo-controlled, study evaluating the safety and activity of four escalating single doses of AVE0657 in congestive heart failure patients presenting as Cheyne-Stokes Breathing Syndrome. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=EUCTR2007-002172-34-FR. 2007.	Excluded by title
10	{Euctr IT} Breathing disorders in heart failure: high altitude hypoxia as a model to define diagnostic tools, therapeutic strategies and gender related differences. - ND. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=EUCTR2010-019986-27-IT. 2010.	Excluded by title
11	{Irct138810223051N} Comparison of the effect of intratracheal and intravenous lidocaine on bucking, cough, and emergence time at the end of anesthesia. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=IRCT138810223051N1. 2010.	Excluded by title
12	{Irct2013022712123N} Cost-effectiveness analysis of intravenous propofol anesthesia versus inhalational Isoflurane anesthesia in patients undergo open surgery at Shahroud's Imam Hossein hospital. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=IRCT2013022712123N2. 2013.	Excluded by title
13	{Irct2016081729405N} Effects of 8 weeks of combined aerobic and resistive exercise on fat percentage, quality of life and fatigue in patients with pulmonary sarcoidosis. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=IRCT2016081729405N1. 2016.	Excluded by title
14	{ISRCTN} Therapy-efficacy of a new mode of Automatic Servo-Ventilation in patients with complicated breathing patterns during sleep. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=ISRCTN62161274. 2010.	Excluded by title
15	{KCT} Effects of Core Stabilization Exercise and Hip-targeted Muscles Stretching and Strengthening Exercise on Physical Function and Activity in Patients with Non-specific Low Back Pain. http://wwwwhoint/trialsearch/Trial2aspx?TrialID=KCT0004140. 2019.	Excluded by title
16	{NCT} A Pilot Study in Severe Patients With Takayasu Arteritis. https://clinicaltrialsgov/show/NCT04300686. 2020.	Excluded by title
17	{NCT} A Trial to Study the Effects of Pulmonary Rehabilitation Program on Exercise Capacity and Quality of Life in Patients With Severe Form of Chronic Obstructive Pulmonary Disease (COPD). Https://clinicaltrialsgov/show/nct02512549 [Internet]. 2015. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01491264/full.	Excluded by title
18	{NCT} Biofeedback Training, Efficacy Evaluation of Fibromyalgia Treatment, a Pilot Study. https://clinicaltrialsgov/show/NCT04121832. 2019.	Excluded by title
19	{NCT} Effect of Chronic Changes in Heart Rate on Congestive Heart Failure. Https://clinicaltrialsgov/show/nct00389649 [Internet]. 2006. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01513198/full.	Excluded by title
20	{NCT} Effect of Single Rinsing With Three Different Types of Mouthwash on VSC Levels in Morning Breath. https://clinicaltrialsgov/show/NCT04279106. 2020.	Excluded by title
21	{NCT} Effect of the Nursing Process on the Quality of Life of the Patient With Definitive Pacemaker Implantation. https://clinicaltrialsgov/show/NCT03999671. 2019.	Excluded by title
22	{NCT} Effectiveness of Chest Wall Mobilization Program in Improving Respiratory Function for Patients With COPD. https://clinicaltrialsgov/show/NCT04122365. 2019.	Excluded by title
23	{NCT} Effects of Two Different Dry-Needling Techniques for Low Back Pain. https://clinicaltrialsgov/show/NCT03970486. 2019.	Excluded by title
24	{NCT} Efficiency of Methotrexate and Tofacitinib in Mild and Moderate Patients. https://clinicaltrialsgov/show/NCT04299971. 2020.	Excluded by title
25	{NCT} Evaluation of Combined Action Between Natrecor and Furosemide on Kidney and Neurohormone Responses in Chronic Heart Failure: a Phase-IV study704.351 / DSS. Https://clinicaltrialsgov/show/nct00652652 [Internet]. 2008. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01518124/full.	Excluded by title
26	{NCT} Evaluation of the Effect of Different Rapid Maxillary Expansion Appliances on Airway by Acoustic Rhinometry. https://clinicaltrialsgov/show/NCT04529057. 2020.	Excluded by title
27	{NCT} Feasibility & Effect of a Tele-rehabilitation Program in Idiopathic Pulmonary Fibrosis (IPF). Https://clinicaltrialsgov/show/nct03548181 [Internet]. 2018. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01660104/full.	Excluded by title
28	{NCT} Ketorolac for Analgesia followiNG Autologous Breast RecOnstructiOn. Https://clinicaltrialsgov/show/nct03007381 [Internet]. 2017. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01560962/full.	Excluded by title
29	{NCT} Nalbuphine Versus Fentanyl As Additives To Bupivacaine In Spinal Anaesthesia For Internal FixationI Of Tibia. Https://clinicaltrialsgov/show/nct03535792 [Internet]. 2018. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01659816/full.	Excluded by title
30	{NCT} Patient Education and Basic Body Awareness Therapy in Hip Osteoarthritis: a Randomized Controlled Trial. Https://clinicaltrialsgov/show/nct02884531 [Internet]. 2016. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01520517/full.	Excluded by title
31	{NCT} Pelvic Health and Physical Therapy to Improve Lives of Prostate Cancer Patients Undergoing Prostatectomy. https://clinicaltrialsgov/show/NCT04027270. 2019.	Excluded by title
32	{NCT} Polygraphic Evaluation of the Effects of Different Rapid Maxillary Expansion Appliances on Sleep Quality. https://clinicaltrialsgov/show/NCT04529213. 2020.	Excluded by title
33	{NCT} Pulmonary Rehabilitation Program and PROactive Tool. https://clinicaltrialsgov/show/NCT02437994. 2015.	Excluded by title
34	{NCT} SheppHeartCABG - Phase One Rehabilitation After Coronary Artery Bypass Grafting. https://clinicaltrialsgov/show/NCT02290262. 2014.	Excluded by title
35	{NCT} Surgical Adhesive Drapes for Prevention and Healing of Wound Infections After Total Hip Arthroplasty. Https://clinicaltrialsgov/show/nct02707302 [Internet]. 2016. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01556492/full.	Excluded by title
36	{NCT} The Effect of Diaphragmatic Breathing Exercise on Pain, Anxiety, and Depression. https://clinicaltrialsgov/show/NCT04225169. 2020.	Excluded by title
37	{NCT} The Effect of Kinesio Taping on Pulmonary Function and Functional Capacity in Patients With Chronic Heart Failure. Https://clinicaltrialsgov/show/nct03597646 [Internet]. 2018. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01661386/full.	Excluded by title
38	{NCT} The Effect of N-Acetylcystein on Quality of Life and Air Trapping During Rest and After Exercise. https://clinicaltrialsgov/show/NCT00476736. 2007.	Excluded by title

39	{NCT} The Goal of This Study is to Evaluate the Effect of Ultrasound Guided Erector Spinae Plane Block on Postoperative Pain After Major Abdominal Surgeries. https://clinicaltrialsgov/show/NCT04382209. 2020.	Excluded by title
40	{NCT} The Use of Fibrin Sealant to Reduce Post Operative Pain in Cleft Palate Surgery. Https://clinicaltrialsgov/show/nct02953145 [Internet]. 2016. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01559734/full.	Excluded by title
41	{NCT} Treatment of Predominant Central Sleep Apnoea by Adaptive Servo Ventilation in Patients With Heart Failure. https://clinicaltrialsgov/show/NCT00733343. 2008.	Excluded by title
42	Abi-Ramia LBP. Avaliação tridimensional da via aérea superior de pacientes com apneia obstrutiva do sono que utilizaram aparelho de avanço mandibular. 2009:93-.	Excluded by title
43	Achilleos S, Krogstad O, Lyberg T. Surgical mandibular advancement and changes in uvuloglossopharyngeal morphology and head posture: a short- and long-term cephalometric study in males. Eur J Orthod. 2000;22(4):367-81.	Excluded by title
44	Agarwal SS, Jayan B, Kumar S. Therapeutic efficacy of a hybrid mandibular advancement device in the management of obstructive sleep apnea assessed with acoustic reflection technique. Indian J Dent Res. 2015;26(1):86-9.	Excluded by title
45	Ahn HW, Cho IS, Cho KC, Choi JY, Chung JW, Baek SH. Surgical treatment modality for facial esthetics in an obstructive sleep apnea patient with protrusive upper Hp and acute nasolabial angle. Angle Orthodontist. 2013;83(2):355-63.	Excluded by title
46	Ahn HW, Lee BS, Kim SW, Kim SJ. Stability of Modified Maxillomandibular Advancement Surgery in a Patient With Preadolescent Refractory Obstructive Sleep Apnea. J Oral Maxillofac Surg. 2015;73(9):1827-41.	Excluded by title
47	Ajiboye OA, Anigbogu CN, Ajuluchukwu JN, Jaja SI. Exercise training improves functional walking capacity and activity level of Nigerians with chronic biventricular heart failure. Hong kong physiotherapy journal. 2015;33(1):42-9.	Excluded by title
48	Akin M, Ucar F, Chousein C, Sari Z. Effects of chincup or facemask therapies on the orofacial airway and hyoid position in Class III subjects. Fortschritte der kieferorthopadie [journal of orofacial orthopedics] [Internet]. 2015; 76(6):[520-30 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01366664/full.	Excluded by title
49	Albaladejo A, Montero J, López-Valverde A, Gómez de Diego R. Empleo del twin block en el paciente infantil con clase II esquelética y labio superior evertido. Ortod esp (Ed impr). 2010;50(2):419-25.	Excluded by title
50	Albaladejo A, Montero J, López-Valverde A, Gómez de Diego R. Opciones de tratamiento. Así fue tratado: Empleo del twin block en el paciente infantil con clase II esquelética y labio superior evertido. Ortod esp (Ed impr). 2010;50(2):428-35.	Excluded by title
51	Alcalde LFA. Avaliação das alterações nas vias aéreas superiores através de tomografia computadorizada Cone-Beam em pacientes submetidos à cirurgia ortognática de avanço bimaxilar. 2017:77-.	Excluded by title
52	Amini M, Heravi F, Zandi B, Eslami S, Mohajerzadeh M, Rohani M. The effect of mandibular advancement device on physiologic parameters and volumetric MRI in mild to moderate obstructive sleep apnea-a randomized controlled trial. Sleep Medicine. 2017;40:e14-e5.	Excluded by title
53	Andrade LLd, Rodrigues J. Tratamento da síndrome do respirador bucal com mordida aberta através da aparatologia ortopédica funcional. J bras ortodontia ortop maxilar. 1996;1(2):3-13.	Excluded by title
54	Aoki A, Prahl-Andersen B. Mandibular distraction osteogenesis for treatment of extreme mandibular hypoplasia. Am J Orthod Dentofacial Orthop. 2007;132(6):848-55.	Excluded by title
55	Aragäo W. Tratamento da mordida aberta anterior, com disto-relação basal com o regulador de função Aragäo V (RFA V). J bras ortodontia ortop maxilar. 1996;1(4):23-31.	Excluded by title
56	Aragäo W. Tratamento precoce da classe III com o Regulador de Função Aragão III. J bras ortodon ortop facial. 1998;3(18):16-22.	Excluded by title
57	Argandoña J, Marino A, Quiñones P, Cortez C. The changes in the upper airways area following orthognathic surgery. A comparative study. International Journal of Oral and Maxillofacial Surgery. 2011;40(10):1083.	Excluded by title
58	Arisaka T, Ito C, Sato K, Tonogi M, Yamane GY, Nakajima T. Examination of changes in the pharyngeal airway space under anterior traction of the mandible: Influence of detachment of the periosteum during orthognathic surgery. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. 2014;26(4):540-4.	Excluded by title
59	Aronovich S. Skeletal reconstruction of craniofacial deformities with alloplastic total joint components and orthognathic surgery. Cleft Palate-Craniofacial Journal. 2016;53(4):e101-e2.	Excluded by title
60	Arx JDv, Merino Arends M, Echarri P, Carrasco A. Tabla de diagnóstico y tratamiento Multifunction System “MFS”, herramienta básica de la estimuloterapia programada. Dentum (Barc). 2009;9(3):119-25.	Excluded by title
61	Aude Celis M. La terapéutica de ortopedia dentofacial y su efecto en la función pulmonar. Rev Círc Argent Odontol. 1999;28(186):24-31.	Excluded by title
62	Awad M, Gouveia C, Zaghi S, Camacho M, Liu SYC. Changing practice: Trends in skeletal surgery for obstructive sleep apnea. Journal of Cranio-Maxillofacial Surgery. 2019;47(8):1185-9.	Excluded by title
63	Azevedo JCM, Cavalcanti AH, Muxfeldt ES. Blood pressure variation on cardiopulmonary test after continuous positive airway pressure therapy in resistant hypertensive patients with obstructive sleep apnea. Sleep science. 2019;12:27-8.	Excluded by title
64	Azevedo WRS, Feitoza CC, Vargas CS, Jr., Pizzol KEDC. Changes in head posture, hyoid bone position and airway dimensions after orthognatic surgery. Brazilian Journal of Oral Sciences. 2018;17.	Excluded by title
65	Baccetti T, Franchi L, Mucedero M, Cozza P. Treatment and post-treatment effects of facemask therapy on the sagittal pharyngeal dimensions in Class III subjects. Eur J Orthod. 2010;32(3):346-50.	Excluded by title
66	Balaji SM. Bilateral pediatric mandibular distraction for micrognathia with temporomandibular joint ankylosis and sleep apnea. Indian J Dent Res. 2017;28(5):588-91.	Excluded by title
67	Bamagoos AA, Cistulli PA, Sutherland K, Madronio M, Eckert DJ, Hess L, et al. Polysomnographic Endotyping to Select Patients with Obstructive Sleep Apnea for Oral Appliances. Ann Am Thorac Soc. 2019;16(11):1422-31.	Excluded by title
68	Bangiyev JN, Traboulsi H, Abdulhamid I, Rozzelle A, Thottam PJ. Sleep architecture in Pierre-Robin sequence: The effect of mandibular distraction osteogenesis. Int J Pediatr Otorhinolaryngol. 2016;89:72-5.	Excluded by title
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70	Brunetto DP, Velasco L, Koerich L, Araujo MT. Prediction of 3-dimensional pharyngeal airway changes after orthognathic surgery: a preliminary study. Am J Orthod Dentofacial Orthop. 2014;146(3):299-309.	Excluded by title
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73	Burstein FD. Resorbable distraction of the midface and orbits and frontal bone: Indications and operative technique. Operative Techniques in Otolaryngology - Head and Neck Surgery. 2005;16(4):260-3.	Excluded by title
74	Butler G, Naughton M, Rahman M, Bradley T, Floras J. Continuous positive airway pressure increases heart rate variability in congestive heart failure. Journal of the american college of cardiology [Internet]. 1995; 25(3):[672-9 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-00110693/full.	Excluded by title
75	Cao MT, Sternbach JM, Guilleminault C. Continuous positive airway pressure therapy in obstuctive sleep apnea: benefits and alternatives. Expert Rev Respir Med. 2017;11(4):259-72.	Excluded by title
76	Capan E, Ersu R, Kiyan E, Yener HM, Arman A, Kilicoglu H. Monoblock appliance for treatment of children with sleep disordered breathing. American Journal of Respiratory and Critical Care Medicine. 2015;191.	Excluded by title
77	Caplan R, Ready L, Oden R, Matsen F, Nessly M, Olsson G. Transdermal fentanyl for postoperative pain management. A double-blind placebo study. Jama [Internet]. 1989; 261(7):[1036-9 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-00057859/full.	Excluded by title
78	Caravadossi A. El individuo indiviso a través de un caso clínico. Rev Asoc Argent Ortop Funcional Maxilares. 2004;34(1):21-4.	Excluded by title

79	Carlstedt K, Henningsson G, Dahllöf G. A four-year longitudinal study of palatal plate therapy in children with Down syndrome: Effects on oral motor function, articulation and communication preferences. Acta Odontologica Scandinavica. 2003;61(1):39-46.	Excluded by title
80	Carra MC, Lavigne G, Rompré P. Sleep bruxismand headache in adolescents. Sleep Medicine. 2011;12:S21.	Excluded by title
81	Cerruto C, Di VL, Doldo T, Giovannetti A, Polimeni A, Goracci C. A computerized photographic method to evaluate changes in head posture and scapular position following rapid palatal expansion: a pilot study. Journal of clinical pediatric dentistry [Internet]. 2012; 37(2):[213-8 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-00858181/full.	Excluded by title
82	Chang KK, Kim KB, McQuilling MW, Movahed R. Fluid structure interaction simulations of the upper airway in obstructive sleep apnea patients before and after maxillomandibular advancement surgery. Am J Orthod Dentofacial Orthop. 2018;153(6):895-904.	Excluded by title
83	Chang MK, Sears C, Huang JC, Miller AJ, Kushner HW, Lee JS. Correlation of Airway Volume With Orthognathic Surgical Movement Using Cone-Beam Computed Tomography. J Oral Maxillofac Surg. 2015;73(12 Suppl):S67-76.	Excluded by title
84	Chen NH, Lin SW, Chuang LP, Cistulli PA, Hsieh MJ, Kao KC, et al. Pharyngeal distensibility during expiration is an independent predictor of the severity of obstructive sleep apnoea. Respirology. 2019;24(6):582-9.	Excluded by title
85	Cho J, Neugarten J, Grewal N, Veler H. Polysomnography to Determine the End Point of Neonatal/Pediatric Mandibular Distraction. Journal of Oral and Maxillofacial Surgery. 2019;77(9):e66-e7.	Excluded by title
86	Chrysohoou C, Pitsavos C, Tsitsinakis G, Aggelis A, Tsiachris D, Vogiatzis J, et al. High intensity, interval exercise improves pulse wave analysis of the aortic pressure waveform in severe left ventricular systolic dysfunction: a phase III randomized clinical trial. European heart journal [Internet]. 2014; 35:[63 p.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01055271/full.	Excluded by title
87	Chrysohoou C, Pitsavos C, Tsitsinakis G, Vogiatzis J, Tsiachris D, Aggelis A, et al. High intensity, interval exercise improves the quality of life, ventricular diastolic function, ergometric capacity and psychological status of patients with chronic heart failure: a phase III randomi. European heart journal [Internet]. 2014; 35:[62 p.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01055272/full.	Excluded by title
88	Chrysohoou C, Tsitsinakis G, Vogiatzis I, Cherouveim E, Antoniou C, Tsiantilas A, et al. High intensity, interval exercise improves quality of life of patients with chronic heart failure: a randomized controlled trial. QJM : monthly journal of the association of physicians [Internet]. 2014; 107(1):[25-32 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01002468/full.	Excluded by title
89	Claudino LV. Avaliação das vias aéreas em pacientes submetidos à cirurgia de avanço mandibular. 2017:86-.	Excluded by title
90	Cleland J, Dargie H, Ball S, Gillen G, Hodsman G, Morton J, et al. Effects of enalapril in heart failure: a double blind study of effects on exercise performance, renal function, hormones, and metabolic state. British heart journal [Internet]. 1985; 54(3):[305-12 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-00039608/full.	Excluded by title
91	Cobo J, Canut JA, Carlos F, Vijande M, Llamas JM. Changes in the upper airway of patients who wear a modified functional appliance to treat obstructive sleep apnea. Int J Adult Orthodon Orthognath Surg. 1995;10(1):53-7.	Excluded by title
92	Coelho-Ferraz MJP, Siqueira VCVd, Nouer DF, Sousa MAd. Avaliação cefalométrica da posição do osso hióide em respiradores bucais - relato de caso clínico. J bras ortodon ortop facial. 2006;11(61):10-20.	Excluded by title
93	Cohen-Levy J, Garcia R, Petelle B, Fleury B. Treatment of the obstructive sleep apnea syndrome in adults by mandibular advancement device: the state of the art. Int Orthod. 2009;7(3):287-304.	Excluded by title
94	Cohen-Levy J, Petelle B, Vieille E, Dumitrache M, Fleury B. Changes in facial profile after maxillomandibular advancement surgery for obstructive sleep apnea syndrome. Int Orthod. 2013;11(1):71-92.	Excluded by title
95	Comotto M, Saghazadeh S, Bagherifard S, Aliakbarian B, Kazemzadeh-Narbat M, Sharifi F, et al. Breathable hydrogel dressings containing natural antioxidants for management of skin disorders. J Biomater Appl. 2019;33(9):1265-76.	Excluded by title
96	Cortes M, Gomez M, Park S, Singh D. A combined approach for upper airway remodeling for skeletal class iii malocclusion with complex OSA. Sleep. 2018;41:A206.	Excluded by title
97	Cortese LG, Palacios S, Oliver L. Trastornos temporomandibulares en niños y adolescentes. Bol Asoc Argent Odontol Niños. 2004;33(2):12-9.	Excluded by title
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908	Fantini SMd, Andrighetto AR. Estudo da correlação entre a alteração do espaço aéreo orofaríngeo e as mudanças da posição natural da cabeça e da altura facial ânter-inferior em indivíduos assintomáticos, com maloclusões de classe II de angle, submetidos à desprogramação neuromuscular com placa oclusal. Ortodontia. 2004;37(2):14-21.	Excluded; no control group
909	Godt A, Koos B, Hagen H, Goz G. Changes in upper airway width associated with Class II treatments (headgear vs activator) and different growth patterns. Angle Orthod. 2011;81(3):440-6.	Excluded; no control group
910	Gómez SPP. Tomografia computadorizada de feixe cônico para avaliação do tratamento da classe II divisão 1ª com o aparelho Herbst no espaço aéreo faríngeo. 2010:95-.	Excluded; no control group
911	Gopal R, Tripathi T, Rai P, Kanase A. Three-dimensional assessment of pharyngeal airway space by MRI in class II division 1 patients treated by twin block appliance. Journal of Clinical and Diagnostic Research. 2018;12(9):ZC20-ZC3.	Excluded; no control group
912	Gu M, Savoldi F, Hägg U, McGrath CPJ, Wong RWK, Yang Y. Upper Airway Changes following Functional Treatment with the Headgear Herbst or Headgear Twin Block Appliance Assessed on Lateral Cephalograms and Magnetic Resonance Imaging. ScientificWorldJournal. 2019;2019:1807257.	Excluded; no control group
913	Gul Amuk N, Kurt G, Baysal A, Turker G. Changes in pharyngeal airway dimensions following incremental and maximum bite advancement during Herbst-rapid palatal expander appliance therapy in late adolescent and young adult patients: a randomized non-controlled prospective clinical study. Eur J Orthod. 2019;41(3):322-30.	Excluded; no control group
914	Hourfar J, Kinzinger GS, Meissner LK, Lisson JA. Effects of two different removable functional appliances on depth of the posterior airway space : A retrospective cephalometric study. J Orofac Orthop. 2017;78(2):166-75.	Excluded; no control group
915	Isidor S, Di Carlo G, Cornelis MA, Isidor F, Cattaneo PM. Three-dimensional evaluation of changes in upper airway volume in growing skeletal Class II patients following mandibular advancement treatment with functional orthopedic appliances. Angle Orthod. 2018;88(5):552-9.	Excluded; no control group
916	Julku J, Pirilä-Parkkinen K, Pirttiniemi P. Airway and hard tissue dimensions in children treated with early and later timed cervical headgear-a randomized controlled trial. European journal of orthodontics. 2018; 40(3):285-95.	Excluded; no control group
917	Kinzinger G, Czapka K, Ludwig B, Glasl B, Gross U, Lisson J. Effects of fixed appliances in correcting Angle Class II on the depth of the posterior airway space: FMA vs. Herbst appliance--a retrospective cephalometric study. J Orofac Orthop. 2011;72(4):301-20.	Excluded; no control group
918	Koay WL, Yang Y, Tse CS, Gu M. Effects of Two-Phase Treatment with the Herbst and Preadjusted Edgewise Appliances on the Upper Airway Dimensions. ScientificWorldJournal. 2016;2016:4697467.	Excluded; no control group
919	Lin YC, Lin HC, Tsai HH. Changes in the Pharyngeal Airway and Position of the Hyoid Bone After Treatment With a Modified Bionator in Growing Patients With Retrognathia. Journal of Experimental and Clinical Medicine. 2011;3(2):93-8.	Excluded; no control group
920	Manni A, Pasini M, Giuca MR, Morganti R, Cozzani M. A retrospective cephalometric study on pharyngeal airway space changes after rapid palatal expansion and Herbst appliance with or without skeletal anchorage. Prog Orthod. 2016;17(1):29.	Excluded; no control group
921	Ozdemir F, Ulkur F, Nalbantgil D. Effects of fixed functional therapy on tongue and hyoid positions and posterior airway. Angle Orthod. 2014;84(2):260-4.	Excluded; no control group
922	Peterson ST. A CBCT Study of Pharyngeal Airway Changes Due to Fixed Functional Appliances. MSc Thesis, Loma Linda University, 2016.	Excluded; no control group
923	Rădescu OD, Colosi HA, Albu S. Effects of rapid palatal expansion (RPE) and twin block mandibular advancement device (MAD) on pharyngeal structures in Class II pediatric patients from Cluj-Napoca, Romania. Cranio. 2020;38(1):22-9.	Excluded; no control group
924	Ravera S, Rollet D, Cugliari G, Deregibus A, Castroflorio T. Interceptive treatment effects of EF preformed appliance in pre-pubertal and pubertal skeletal Class II growing patients: A retrospective controlled study. European Journal of Paediatric Dentistry. 2020;21(2):123-8.	Excluded; no control group
925	Restrepo C, Santamaria A, Pelaez S, Tapias A. Oropharyngeal airway dimensions after treatment with functional appliances in class II retrognathic children. J Oral Rehabil. 2011;38(8):588-94.	Excluded; no control group
926	Schutz TC, Dominguez GC, Hallinan MP, Cunha TC, Tufik S. Class II correction improves nocturnal breathing in adolescents. Angle Orthod. 2011;81(2):222-8.	Excluded; no control group
927	Shetty K, Saidath K, Shetty A, Ravi MS, Shashidhar K, Anushree A. Assessment and comparison of oropharyngeal airway dimensions in skeletal Class II cases treated with forsus FRD and Twin Block Appliances. Nitte University Journal of Health Science. 2017;7(2):8-18.	Excluded; no control group
928	Singh GD, Garcia-Motta AV, Hang WM. Evaluation of the posterior airway space following Biobloc therapy: geometric morphometrics. Cranio. 2007;25(2):84-9.	Excluded; no control group
929	Smailiene D, Intiene A, Dobradziejute I, Kusleika G. Effect of Treatment with Twin-Block Appliances on Body Posture in Class II Malocclusion Subjects: A Prospective Clinical Study. Med Sci Monit. 2017;23:343-52.	Excluded; no control group
930	Temani P, Jain P, Rathee P, Temani R. Volumetric changes in pharyngeal airway in Class II division 1 patients treated with Forsus-fixed functional appliance: A three-dimensional cone-beam computed tomography study. Contemp Clin Dent. 2016;7(1):31-5.	Excluded; no control group
931	Thakur VK, Londhe SM, Kumar P, Sharma M, Jain A, Pradhan I. Evaluation and quantification of airway changes in Class II division 1 patients undergoing myofunctional therapy using twin block appliance. Medical Journal Armed Forces India. 2020.	Excluded; no control group
932	Thereza-Bussolaro C, Oh HS, Lagravère M, Flores-Mir C. Pharyngeal dimensional changes in class II malocclusion treatment when using Forsus® or intermaxillary elastics - An exploratory study. Int Orthod. 2019;17(4):667-77.	Excluded; no control group
933	Verma G, Tandon P, Nagar A, Singh GP, Singh A. Cephalometric evaluation of hyoid bone position and pharyngeal spaces following treatment with Twin block appliance. J Orthod Sci. 2012;1(3):77-82.	Excluded; no control group
934	Vinoth SK, Thomas AV, Nethravathy R. Cephalomteric changes in airway dimensions with twin block therapy in growing Class II patients. J Pharm Bioallied Sci. 2013;5(Suppl 1):S25-9.	Excluded; no control group
935	Yassaei S, Tabatabaei Z, Ghafurifard R. Stability of pharyngeal airway dimensions: tongue and hyoid changes after treatment with a functional appliance. Int J Orthod Milwaukee. 2012;23(1):9-15.	Excluded; no control group
936	Zhang C, He H, Ngan P. Effects of twin block appliance on obstructive sleep apnea in children: a preliminary study. Sleep Breath. 2013;17(4):1309-14.	Excluded; no control group
937	Abdalla Y, Brown L, Sonnesen L. Effects of a fixed functional appliance on upper airway volume: A 3-dimensional cone-beam computed tomography study. Am J Orthod Dentofacial Orthop. 2020;158(1):40-9.	Excluded; control group not Class II
938	Han S, Choi YJ, Chung CJ, Kim JY, Kim KH. Long-term pharyngeal airway changes after bionator treatment in adolescents with skeletal Class II malocclusions. Korean J Orthod. 2014;44(1):13-9.	Excluded; control group not Class II

939	Iwasaki T, Sato H, Suga H, Minami A, Yamamoto Y, Takemoto Y, et al. Herbst appliance effects on pharyngeal airway ventilation evaluated using computational fluid dynamics. Angle Orthod. 2017;87(3):397-403.	Excluded; control group not Class II
940	Iwasaki T, Takemoto Y, Inada E, Sato H, Saitoh I, Kakuno E, et al. Three-dimensional cone-beam computed tomography analysis of enlargement of the pharyngeal airway by the Herbst appliance. Am J Orthod Dentofacial Orthop. 2014;146(6):776-85.	Excluded; control group not Class II
941	Li L, Liu H, Cheng H, Han Y, Wang C, Chen Y, et al. CBCT evaluation of the upper airway morphological changes in growing patients of class II division 1 malocclusion with mandibular retrusion using twin block appliance: a comparative research. PLoS One. 2014;9(4):e94378.	Excluded; control group cross-sectional
942	Li L, Wu W, Yan G, Liu L, Liu H, Li G, et al. Analogue simulation of pharyngeal airflow response to Twin Block treatment in growing patients with Class II(1) and mandibular retrognathia. Sci Rep. 2016;6:26012.	Excluded; control group cross-sectional
943	Aras I, Pasaoglu A, Olmez S, Unal I, Aras A. Upper airway changes following single-step or stepwise advancement using the Functional Mandibular Advancer. J Orofac Orthop. 2016;77(6):454-62.	Excluded; control group receiving treatment
944	Hanggi MP, Teuscher UM, Roos M, Peltomaki TA. Long-term changes in pharyngeal airway dimensions following activator-headgear and fixed appliance treatment. Eur J Orthod. 2008;30(6):598-605.	Excluded; control group receiving treatment
945	E HW. Pharyngeal airway increases with LARS treatment for retrognathia. Cranio. 2020;38(1):30-3.	Excluded; inadequate data
946	Gu M, Lin Y, McGrath CPJ, Hagg U, Wong RWK, Yang Y. Evaluation of the upper airway dimensions following Herbst appliance treatment in adolescents: A retrospective study. Apos Trends in Orthodontics. 2020;10(3):153-63.	Excluded; inadequate data
947	H Williamson E. Pharyngeal airway increases with LARS treatment for retrognathia. Cranio. 2018 May 31:1-4.	Excluded; inadequate data
948	Aksu M, Gorucu-Coskuner H, Taner T. Assessment of upper airway size after orthopedic treatment for maxillary protrusion or mandibular retrusion. Am J Orthod Dentofacial Orthop. 2017;152(3):364-70.	Included
949	Alhammadi MS, Elfeky HY, Fayed MS, Ishaq RAR, Halboub E, Al-Mashraqi AA. Three-dimensional skeletal and pharyngeal airway changes following therapy with functional appliances in growing skeletal Class II malocclusion patients : A controlled clinical trial. J Orofac Orthop. 2019 Sep;80(5):254-265.	Included
950	Ali B, Shaikh A, Fida M. Effect of Clark's twin-block appliance (CTB) and non-extraction fixed mechano-therapy on the pharyngeal dimensions of growing children. Dental Press J Orthod. 2015;20(6):82-8.	Included
951	Atik E, Gorucu-Coskuner H, Kocadereli I. Dentoskeletal and airway effects of the X-Bow appliance versus removable functional appliances (Frankel-2 and Trainer) in prepubertal Class II division 1 malocclusion patients. Australian Orthodontic Journal. 2017;33(1):3-13.	Included
952	Bavbek NC, Tuncer BB, Turkoz C, Ulusoy C, Tuncer C. Changes in airway dimensions and hyoid bone position following class II correction with forsus fatigue resistant device. Clin Oral Investig. 2016;20(7):1747-55.	Included
953	Cortese M, Pigato G, Casiraghi G, Ferrari M, Bianco E, Maddalone M. Evaluation of the Oropharyngeal Airway Space in Class II Malocclusion Treated with Mandibular Activator: A Retrospective Study. J Contemp Dent Pract. 2020;21(6):666-72.	Included
954	Drosen C, Bock NC, von Bremen J, Pancherz H, Ruf S. Long-term effects of Class II Herbst treatment on the pharyngeal airway width. Eur J Orthod. 2018;40(1):82-9.	Included
955	Elfeky HY, Fayed MMS. Three-dimensional effects of twin block therapy on pharyngeal airway parameters in Class II malocclusion patients. Journal of the World Federation of Orthodontists. 2015;4(3):114-9.	Included
956	Entrenas I, González-Chamorro E, Álvarez-Abad C, Muriel J, Menéndez-Díaz I, Cobo T. Evaluation of changes in the upper airway after Twin Block treatment in patients with Class II malocclusion. Clin Exp Dent Res. 2019;5:259–268.	Included
957	Fabiani G, Galvan Galvan J, Raucci G, Elyasi M, Pacheco-Pereira C, Flores-Mir C, et al. Pharyngeal airway changes in pre-pubertal children with Class II malocclusion after Frankel-2 treatment. Eur J Paediatr Dent. 2017;18(4):291-5.	Included
958	Ghodke S, Utreja AK, Singh SP, Jena AK. Effects of twin-block appliance on the anatomy of pharyngeal airway passage (PAP) in class II malocclusion subjects. Prog Orthod. 2014;15:68.	Included
959	Göymen M, Mourad D, Güleç A. Evaluation of Airway Measurements in Class II Patients Following Functional Treatment. Turk J Orthod. 2019 Mar;32(1):6-10.	Included
960	Jena AK, Singh SP, Utreja AK. Effectiveness of twin-block and Mandibular Protraction Appliance-IV in the improvement of pharyngeal airway passage dimensions in Class II malocclusion subjects with a retrognathic mandible. Angle Orthod. 2013;83(4):728-34.	Included
961	Kilinc DD, Sayar G. Pharyngeal airway changes of patients after Class II activator treatment. Selcuk Dent J 2018;5:8-12.	Included
962	Oliveira PM, Cheib-Vilefort PL, de Pársia Gontijo H, Melgaço CA, Franchi L, McNamara JA, Jr., et al. Three-dimensional changes of the upper airway in patients with Class II malocclusion treated with the Herbst appliance: A cone-beam computed tomography study. Am J Orthod Dentofacial Orthop. 2020;157(2):205-11.	Included
963	Ozbek MM, Memikoglu TU, Gogen H, Lowe AA, Baspinar E. Oropharyngeal airway dimensions and functional-orthopedic treatment in skeletal Class II cases. Angle Orthod. 1998;68(4):327-36.	Included
964	Pavoni C, Cretella Lombardo E, Franchi L, Lione R, Cozza P. Treatment and post-treatment effects of functional therapy on the sagittal pharyngeal dimensions in Class II subjects. Int J Pediatr Otorhinolaryngol. 2017;101:47-50.	Included
965	Rizk S, Kulbersh VP, Al-Qawasmi R. Changes in the oropharyngeal airway of Class II patients treated with the mandibular anterior repositioning appliance. Angle Orthod. 2016;86(6):955-61.	Included
966	Rongo R, Martina S, Bucci R, Festa P, Galeotti A, Alessandri Bonetti G, et al. Short-term effects of the Sander bite-jumping appliance on the pharyngeal airways in subjects with skeletal Class II malocclusion: A retrospective case-control study. Journal of Oral Rehabilitation. 2020.	Included
967	Ulusoy C, Canigur Bavbek N, Tuncer BB, Tuncer C, Turkoz C, Gencturk Z. Evaluation of airway dimensions and changes in hyoid bone position following class II functional therapy with activator. Acta Odontol Scand. 2014;72(8):917-25.	Included

Table S3. Malocclusion characteristics of the patients within the included studies.

Study	Malocclusion
Aksu 2017 [29]	ANB>5º; Class II molar relationship; no respiratory problems
Alhammadi 2019 [30]	Overjet≥5mm; ≥½ Class II molar relationship
Ali 2015 [31]	ANB>4º; SNB<78º; SN-ML 28-36º; bilateral Class II molar relationship
Atik 2017 [32]	Class II molar relationship; Class II/1; SNB<78º; overjet≥4mm
Bavbek 2016 [33]	ANB>4º; Class II/1; SNB<80º; overjet>5mm; SN-ML 26-38º; no respiratory problems
Cortese 2020 [34]	ANB>4º; overjet >4mm; Class II/1; retrognathic mandible
Drosen 2018 [35]	ANB>4º; Class II molar relationship (for the EG)
Elfeky 2015 [36]	ANB>4º; overjet>4mm; Class II molar relationship; no respiratory problems
Entrenas 2019 [37]	Mandibular Class II
Fabiani 2017 [38]	Class II/1; overjet>4mm; ANB>4º; SNB<78º; bilateral Cl. ½-full II molar relationship; cervical vertebrae maturation stage 1-2; good compliance (for the experimental group)
Ghodke 2014 [39]	Bilateral Class II molar relationship; SNA 79-84º; SNB≤º76; overjet=6-10mm; FMA 20-28º
Goymen 2019 [40]	Class II/1; ANB>4º; overjet>5mm
Jena 2013 [41]	Class II/1; bilateral Class II molar relationship; overjet=6-10mm; FMA 20-25º; no proclined anterior teeth
Kilinc 2018 [42]	Class II molar relationship; retrognathic mandible; during growth spurt
Oliveira 2020 [43]	Class II; ANB>4º; retrognathic mandible; cervical vertebrae maturation stage 2-5
Ozbek 1998 [44]	Class II molar relationship, ANB>4º; retrognathic mandible; overjet>5mm; no respiratory problems; hand-wrist radiograph <$MP3_{cap}$
Pavoni 2017 [45]	½ or full Class II molar relationship; ANB≥4º; overjet>5mm; normo-/hypo-divergent; cervical vertebrae maturation stage 2-3; sleep disordered breathing (for the experimental group)
Rizk 2016 [46]	Class II molar relationship; ANB≥4.5º; SNB ≤77º; SN-ML≥27º; cervical vertebrae maturation stage<5; no respiratory problems
Rongo 2020 [47]	Full Class II molar relationship; overjet>6mm; retrognathic mandible; cervical vertebrae maturation stage 2-3; SN-ML 26-38º
Ulusoy 2014 [48]	ANB>5º; SNB<80º; overjet>5mm; SN-ML 26-38º; no respiratory problems

Table S4. Detailed risk of bias of included non-randomized studies.

Reference	Aksu 2017	Alhammadi 2019	Ali 2015	Atik 2017	Bavbek 2016	Cortese 2020	Drosen 2018	Elfeky 2015	Entrenas 2019	Fabiani 2017	Ghodke 2014
Was the study prospective?	N	Y	N	N	N	N	N	Y	Y	N	Y
Was selection of patients based on any factor that could influence the outcome (malocclusion, airways, compliance, missed appointments, breakages)?	PN	N	PY	N	N	N	PN	N	PN	PY	PN
Were FA/CTR groups clearly defined?	PY	Y	Y	PY	Y	Y	PN	Y	PY	Y	Y
Were FA/CTR patients treated/observed at the same place/time?	Y	Y	N	NI	PY	NI	N	Y	PY	PY	PY
Were FA/CTR patients matched for baseline age?	Y	PN	Y	N	PN	Y	Y	PY	PY	PY	NI
Were FA/CTR patients matched for baseline sex?	PN	Y	Y	PY	PY	Y	Y	Y	Y	PN	PY
Were FA/CTR patients matched for baseline malocclusion?	PY	PY	PN	Y	PY	Y	Y	PY	NI	PN	PY
Were FA/CTR patients matched for baseline airway measurements?	PY	N	N	N	PY	PY	Y	PY	N	N	PY
Was the use of other appliances the same among FA/CTR patients?	NA	NA	N	NA	PY	NA	PN	NA	NA	NA	PN
Was the observation period similar for FA/CTR patients?	PY	NI	Y	N	N	N	PN	Y	NI	PY	Y
Were FA/CTR patients measured exactly the same way?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Were FA/CTR patients measured blindly?	N	N	N	N	N	N	N	N	N	N	N
Was the adequate sample? (25 patients per group)	N	N	Y	N	N	N	N	N	Y	N	N

CTR, untreated control group; FA, fixed appliance group; N, no; NA, not applicable; NI, no information; PN, probably no; PY, probably yes; Y, yes.

Table S4. Detailed risk of bias of included non-randomized studies (*continued*).

Reference	Goymen 2019	Jena 2013	Kilinc 2018	Oliveira 2020	Ozbek 1998	Pavoni 2017	Rizk 2016	Rongo 2020	Ulusoy 2014
Was the study prospective?	N	N	N	N	N	Y	N	N	N
Was selection of patients based on any factor that could influence duration (malocclusion, airways, compliance, missed appointments, breakages)?	N	N	PN	PN	N	PY	PN	PN	PN
Were FA/CTR groups clearly defined?	Y	Y	PY	Y	PY	PY	PY	PY	PY
Were FA/CTR patients treated/observed at the same place/time?	PY	PY	NI	PY	PN	NI	NI	PN	NI
Were FA/CTR patients matched for baseline age?	N	N	NI	NI	PY	PY	NI	PY	PY
Were FA/CTR patients matched for baseline sex?	NI	PN	PN	PY	PY	PY	NI	PY	PN
Were FA/CTR patients matched for baseline malocclusion?	N	PN	N	NI	PY	PY	NI	PY	PY
Were FA/CTR patients matched for baseline airway measurements?	N	PN	N	PN	PN	PN	PN	PN	PY
Was the use of other appliances the same among FA/CTR patients?	NA	PN	NA	N	PN	NA	NA	NA	NA
Was the observation period similar for FA/CTR patients?	NI	PN	Y	PN	N	PY	NI	PY	PY
Were FA/CTR patients measured exactly the same way?	Y	Y	Y	Y	Y	PY	PY	Y	PY
Were FA/CTR patients measured blindly?	N	N	N	N	N	N	N	N	N
Was the adequate sample? (25 patients per group)	N	N	N	N	N	Y	N	Y	N

CTR, untreated control group; FA, fixed appliance group; N, no; NA, not applicable; NI, no information; PN, probably no; PY, probably yes; Y, yes.

Table S5. Results of individual studies not included in meta-analyses.

Study	Appliance	Outcome*	MD (95% CI)	P	CR
Aksu 2017	Activator	Epiglottic airway space (mm)	0.90 (-0.65, 2.45)	0.26	-
Fabiani 2017	Fränkel-2	PNS-H (mm)	0.15 (-0.88, 1.18)	0.78	-
Fabiani 2017	Fränkel-2	Ptm-Ba (mm)	-0.34 (-1.27, 0.59)	0.47	-
Goymen 2019	Twin-Block / FFRD	Hypopharynx dimension (mm)	-0.61 (-0.86, -0.37)	<0.001	No
Goymen 2019	Twin-Block / FFRD	Nasopharynx dimension (mm)	0.66 (0.35, 0.97)	<0.001	Yes
Oliveira 2020	Herbst	Nasal cavity volume (mm^3)	-1513.75 (-4033.94, 1006.44)	0.24	-
Pavoni 2017	Activator	Phw1-Psp (mm)	4.50 (3.88, 5.13)	<0.001	Yes
Pavoni 2017	Activator	lin_U-PNS (mm)	1.60 (1.01, 2.19)	<0.001	No
Rizk 2016	MARA	Oropharynx cross-section (mm)	3.99 (1.98, 6.00)	<0.001	No
Rongo 2020	Sander	Pharynx dimension (on the B-Go line; mm)	0.60 (-1.84, 3.04)	0.63	-
Ulusoy 2014	Activator	Nasopharynx area (mm^2)	160.00 (-371.76, 691.76)	0.56	-
Ulusoy 2014	Activator	Pharynx dimension (at the velum; mm)	0.25 (-1.57, 2.07)	0.79	-

* from explanation of each landmark, consult the original studies.
CI, confidence interval; CR, clinically relevant (judged as effect being larger than one standard deviation of the control group pre-treatment); FFRD, Forsus Fatigue Resistant Device; MARA, Mandibular Anterior Repositioning Appliance; MD, mean difference.

Figure S1. Contour-enhanced funnel plots for assessing reporting biases and publication bias.