

Appendix 1. Excluded articles for Umbrella Review

| Title | Author | Year | Reason |
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| Treatment of upper airway resistance syndrome in adults: Where do we stand ? | de Godoy L.B.M.; Palombini L.O.; Guilleminault C.; Poyares D.; Tufik S.; Togeiro, S. M.; | 2015 | Vague comparison of UARS and patients with asthma, RME treatment, etc. Not relevant. |
| Surgical procedures and non-surgical devices for the management of non-apneic snoring: A systematic review of clinical effects and associated treatment costs | Main C.; Liu Z.; Welch K.; Weiner G.; Jones S.Q.; Stein, K.; | 2009 | Includes studies other than RCT. Surgical MAD |
| How does mandibular advancement with or without maxillary procedures affect pharyngeal airways? An overview of systematic reviews | Tan, Su Keng; Leung, Wai Keung; Tang, Alexander Tin Hong; Zwahlen, Roger A.; | 2017 | MMA surgery, umbrella review |
| Reliability of upper pharyngeal airway assessment using dental CBCT: a systematic review | Zimmerman, Jason N; Lee, Janson; Pliska, Benjamin T.; | 2017 | Not relevant |
| Craniofacial and upper airway morphology in pediatric sleep-disordered breathing: Systematic review and meta-analysis | Katyal, Vandana; Pamula, Yvonne; Martin, A James; Daynes, Cathal N; Kennedy, J Declan; Sampson, Wayne J.; | 2013 | Not relevant |
| Effects of maxillomandibular advancement on the upper airway and surrounding structures in patients with obstructive sleep apnea: a systematic review. | Hsieh, Yuh-Jia; Liao, Yu-Fang.; | 2013 | Not relevant |
| Maxillomandibular advancement and tracheostomy for morbidly obese obstructive sleep apnea: A systematic review and meta-analysis | Camacho, M.; Teixeira, J.; Abdullatif, J.; Acevedo, J.L.; Certal, V.; Capasso, R.; Powell, N.B.; | 2015 | Not relevant |
| Improved apnea-hypopnea index and lowest oxygen saturation after maxillomandibular advancement with or without counter clockwise rotation in patients with | Knudsen, T.B.; Laulund, A.S.; Ingerslev, J.; Homøe, P.; Pinholt, E.M.; | 2015 | Surgical MMA |

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| obstructive sleep apnea: A meta-analysis | | | |
| Complexity and efficacy of mandibular advancement splints: understanding their mode of action | Fernanda Ribeiro de Almeida | | A commentary |
| Three-dimensional changes to the upper airway after maxillomandibular advancement with counter clockwise rotation: a systematic review and meta-analysis | Louro RS et al | 2017 | Surgical MMA |
| Efficacy and comorbidity of oral appliances in the treatment of obstructive sleep apnea-hypopnea: a systematic review and preliminary results of a randomized trial | Hoekeme A | 2006 | CPAP and UPP included. Short study, no discussion section included. |