

Supplementary Table S1. Eligibility criteria for the present systematic review.

Domain	Inclusion criteria	Exclusion criteria
Participants	<ul style="list-style-type: none"> ▪ Patients previously treated orthodontically with permanent dentition at the end of treatment. 	<ul style="list-style-type: none"> ▪ Patients previously not been treated orthodontically
Interventions	<ul style="list-style-type: none"> ▪ Present, absent, extracted or congenitally missing third molars 	
Comparisons	<ul style="list-style-type: none"> ▪ Intervention or no intervention 	
Outcomes	<ul style="list-style-type: none"> ▪ Quantitative macroscopic data regarding mandibular incisor crowding [i.e. Little irregularity index] measured mainly on casts 	<ul style="list-style-type: none"> ▪ Quantitative macroscopic data regarding mandibular incisor crowding not been associated with third molars
Studydesign	<ul style="list-style-type: none"> ▪ Experimental controlled studies (according to the Scottish Intercollegiate Guidelines Network algorithm for classifying study design (available at http://www.sign.ac.uk/assets/study_design.pdf) 	<ul style="list-style-type: none"> ▪ Reviews, systematic reviews and meta-analyses

Supplementary Table S2. Strategy for database search (up to October 2020).

Database	Search strategy	Hits
General Sources		
PubMed http://www.ncbi.nlm.nih.gov/pubmed	("third molar" OR "third molars" OR "wisdom tooth" OR "wisdom teeth" OR "third molar impaction" OR "third molar eruption" OR "third molar extraction" OR "third molar preventive extraction" OR "missing third molar" OR "missing wisdom tooth") AND ("crowding" OR "incisor crowding" OR "mandibular incisor crowding" OR "late lower incisor crowding" OR "secondary crowding" OR "relapse" OR "orthodontic relapse")	188
Scopus https://www.scopus.com/search/form.url?zone=TopNavBar&origin=searchbasic	TITLE-ABS-KEY: ("third molar" OR "third molars" OR "wisdom tooth" OR "wisdom teeth" OR "third molar impaction" OR "third molar eruption" OR "third molar extraction" OR "third molar preventive extraction" OR "missing third molar" OR "missing wisdom tooth") AND ("crowding" OR "incisor crowding" OR "mandibular incisor crowding" OR "late lower incisor crowding" OR "secondary crowding" OR "relapse" OR "orthodontic relapse")	203
Web of Science™ http://apps.webofknowledge.com/	TITLE: ("third molar" OR "third molars" OR "wisdom tooth" OR "wisdom teeth" OR "third molar impaction" OR "third molar eruption" OR "third molar extraction" OR "third molar preventive extraction" OR "missing third molar" OR "missing wisdom tooth") AND ("crowding" OR "incisor crowding" OR "mandibular incisor crowding" OR "late lower incisor crowding" OR "secondary crowding" OR "relapse" OR "orthodontic relapse") Timespan: All years; Search language=Auto	214