

Supplementary Material

Supplementary Table 1. The search strategy summary

Items	Specification
Date of search	08/20/2025
Databases and other sources searched	PubMed, Google Scholar, Web of Science, Harvard Library, Jilin University Library.
Search terms used	Search terms: (dexmedetomidine) AND (oral and maxillofacial surgery OR dental anesthesia) AND (intellectual disability OR special needs).
Timeframe	01/01/2010-03/31/2025
Inclusion and exclusion criteria	Inclusion: English language reviews, editorials, correspondence, trials, and case reports. Exclusion: Non-English language reviews, animal studies.
Selection process	Authors independently reviewed the titles and abstracts based on the inclusion criteria.
Additional	Reference lists of included studies were hand-searched.