

ChatGPT-3.5 as a Supplementary Skills Instructor Improves Dental Procedure Performance in a 187-Student RCT at Wuhan University

AI in Education · Good practice · China

Quality score: 47/100

Evidence strength: Moderate

Summary

A one-week RCT with 187 Chinese dental undergraduates found ChatGPT-3.5 access alongside standard video instruction significantly improved procedural performance and cut eye-tracking-measured cognitive load, with the biggest gains for students with lower spatial ability.

Key dimensions

Dimension	Score
Evidence of learning impact	3/3
Equity & inclusion	2/3
Transparency, ethics & data protection	1/3
Teacher capability & pedagogy	0/3
Scalability & sustainability	1/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-25

[Wuhan University, School & Hospital of Stomatology](#) — accessed 2026-08-25

[Journal of Medical Internet Research](#) — accessed 2026-08-25

[PubMed](#) — accessed 2026-08-25

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