# acemate AI Tutor Access Experiment — A Pre-Registered 334-Student Berlin Trial Finds Unrestricted Access Beats 'Read First, Ask Later'

AI in Education · Good practice · Germany

Quality score: 53/100

Evidence strength: Moderate

### *Summary*

Pre-registered lab RCT at TU Berlin (N=334): a GPT-4/RAG tutor from acemate raised exam scores by 0.23 SD vs textbook-only study; continuous access beat access delayed until after 10 minutes of reading by 0.21 SD. Gains were largest for lower-baseline, self-regulated students.

### *Key dimensions*

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

Evaluated by C-NAPSE

### *Data sources*

C-NAPSE web research — accessed 2026-11-23

WZB Berlin Social Science Center, University of Göttingen and WHU, with the acemate learning platform — accessed 2026-11-23

IZA Discussion Paper No. 18338 (Dec 2025) — accessed 2026-11-23

EconPapers / RePEc listing (WZB series) — accessed 2026-11-23

IZA listing — accessed 2026-11-23

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