FORONTO

BACKGROUND

• Primary care providers spend over 40% of their time on extensive administrative tasks and clinical documentation often extending beyond working hours.

•Al scribes leverage Natural Language Processing (NLP) and Machine Learning (ML) to automatically summarize, and structure clinical conversations. •Al-driven documentation solutions enhance documentation efficiency, accuracy, and workflow integration, significantly reducing the time physicians spend on clerical tasks. • Al scribes aim to potentially lowering administrative costs and reducing physician reliance on manual documentation and burnout.

OBJECTIVES

To evaluate the influence of AI scribes on primary care providers' administrative tasks and burnout levels.

METHODS

• We conducted a scoping review between January 2010 and March 2025



The Impact of AI Scribes on Primary Care Providers' Administrative Burden and Burnout: a Scoping Review

Khalid Al-Marri MD¹, Alaa Al-Naama MD², Savithiri Ratnaplan MBBS, PhD¹

1. Dalla Lana School of Public Health, University of Toronto, Canada. 2. Faculty of Medicine, University of Ottawa, Canada



RESULTS

Prisma flow diagram of article screening process:



- Two-component search strategy was developed with
- Al scribe, primary care, and burnout as well as
- Two researchers each reviewed the titles, abstracts, and full-text articles separately to decide whether they
- A custom data extraction template was created for this
- Two reviewers independently extracted information from each study and examined emerging themes.

RESULTS

CONCLUSION

burnout



Seven studies met inclusion criteria and were included in this review

All studies were perspective studies. Two study showed, Burnout reduction by 15-26% after using ambient scribe for 5 weeks. The second study showed 69% reduction total documentation time and afterhours charting. • The third study showed patient encounters was associated with significantly reduced documentation burden and primary care provider disengagement after AI scribe usage. Al scribes significantly reduced task load and enhanced provider perceptions of efficiency, documentation quality, and ease of use. Two study showed AI Scribe led to reduction in administrative time, cognitive burden with good

timely and accurate clinical note.

• Al scribes consistently demonstrated assistance in reduction documentation workload and resulting timely accurate in documentation with minor errors.

 Continuous evaluation is essential to ensure AI scribes effectively support primary care providers while maintaining accuracy, effectiveness, and safety for patients and providers.

•Ongoing monitoring is required to detect and mitigate potential biases associated with AI scribe technology and long-term effects.