EVALUATION OF AN AI-ASSISTED DOCUMENTATION TOOL IN THE EMERGENCY DEPARTMENT: A SINGLE-CENTRE STUDY OF ACCURX SCRIBE

Accurx Scribe
Powered by Tandem

NHS
Worcestershire Acute Hospitals
NHS Trust

[1]A. U. AHMED, [1]M. A. HUSSEIN, [2]O. SHEPHERD, [3]R. PELASUR

1–3 MINUTES SAVED PER PATIENT — ≥7.5 HOURS RECOVERED EVERY DAY

INTRODUCTION

A&E clinicians must balance timely patient care with the growing burden of clinical documentation. Accurx Scribe is an AI-powered documentation tool designed to streamline note-taking by automatically generating clinical records from patient consultations.
Reducing documentation burden may improve departmental efficiency, support clinical workflow, and allow healthcare professionals to spend more time focused on direct patient care.

OBJECTIVES

To assess the impact of Accurx Scribe on clinician documentation time during an Emergency Department pilot at Alexandra Hospital, Redditch, determine whether any time-saving benefit was reproducible across two study iterations, and evaluate whether this occurred without reducing clinician-patient interaction time.

METHODOLOGY

A two-iteration time-and-motion study was conducted during an Emergency Department pilot at Alexandra Hospital, Redditch.
Clinicians compared standard documentation with Accurx Scribe using a split-shift design.

- *Iteration 1 [February]* included 12 clinicians, with 9/12 complete datasets.
- Iteration 2 [March] included 5 clinicians, with 5/7 complete datasets.

Data were collected using printed capture sheets. Primary metrics were Time to See Patient (TTP) and Time to Document (TTD). allowing comparison between standard documentation and Accurx Scribe while monitoring whether patient interaction time was affected.

RESULTS & ANALYSIS

Across both study iterations, Accurx Scribe **reduced average documentation time** compared with standard documentation.

- In Iteration 1, average documentation time reduced from 8 minutes to 7 minutes with Accurx Scribe, saving 1 minute per patient. Patient interaction time remained unchanged at 12 minutes in both groups.
- In Iteration 2, average documentation time reduced from 10 minutes with standard documentation to 7 minutes with Accurx Scribe, saving 3 minutes per patient. This represented a 30% reduction in documentation time.

The key cross-study finding was that Accurx Scribe documentation time remained consistent at 7 minutes in both iterations, suggesting a reproducible documentation efficiency benefit despite different operational conditions.
Patient interaction time varied in Iteration 2; however, this was likely due to differences in staffing, patient flow and shift conditions rather than a direct effect of Accurx Scribe.

IMPACT PROJECTION

Across both study iterations, Accurx Scribe **reduced average At WAHT activity levels of approximately 450 patients per day, even a 1-minute saving per patient equates to 7.5 hours of clinical capacity recovered daily. time** compared with standard documentation.

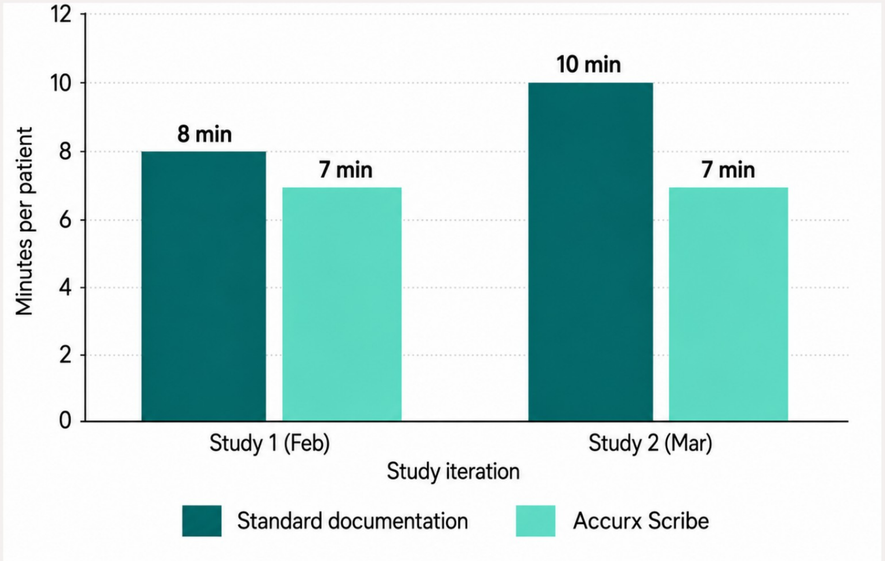


Figure 1: Documentation Time Across Two Studies

LIMITATIONS

- Infrastructure: Heavy reliance on public Wi-Fi led to latency issues.
- Workflow Friction: Accurx Scribe was not directly integrated into the existing EPR, requiring clinicians to manually copy and paste generated notes into Sunrise.
- Environmental Challenges: The high-pressure ED setting often requires seeing patients in unconventional areas like corridors and cubicles, which demands flexible hardware support.
- First Time Use: Many clinicians had no prior experience of Accurx Scribe, so results reflect genuine first time use, not trained adopters

DISCUSSION & CONCLUSION

Accurx Scribe reduced clinician documentation time across two Emergency Department study iterations, with Scribe documentation time remaining consistent at 7 minutes per patient.
This suggests a reproducible efficiency benefit, although further evaluation with larger samples, improved data capture, and EPR integration is needed to better quantify its impact on clinical workflow.