

An application of Kolb's experiential learning theory to teaching Al scribe technology to healthcare practitioners

Background

Ontario is currently facing a primary care crisis, with an estimated 2.5 million Ontarians without access to a family physician as of mid-2024 (1).

This is a multifactorial issue, but one driving factor behind existing family MDs resignations and poor new MD recruitment is burnout related to the significant administrative burden associated with clinical documentation (2).

One proposed solution for reducing time spent by primary care providers is the utilization of AI scribe technology (3).

Problem

While utilization of AI scribe technology in a provider's clinical practice may be self-directed, evidence suggests that as many as one-third of providers feel as though further educational support would be useful in its implementation (4).

Objectives

To relate Kolb's Experiential Learning Theory to educational challenges associated with teaching AI scribe tools in primary healthcare settings:

- to *recognize* how preferential learning styles may be utilized to orient learners to entry into Kolb's cycle,
- to *distinguish* possible challenges precluding adult learners' adoption of AI scribe technology, and finally
- to *identify* how these challenges may be mitigated by addressing them at each of the stages of Kolb's cycle.



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Solutions Challenges • Teach AI principles & HCPs may struggle to connect their experiences ethics with the theoretical • Use educational tools understanding of how AI for EHR integration scribes function and their Highlight AI benefits in role in healthcare. practice

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Theory & Application

Concrete Experiencers		
Solutions		Cyclic
 Provide hands-on Al simulations Use real-world clinical scenarios 		ELT's Sma
Active Experimenters		
Solutions		Can scrib
 Encourage daily Al scribe use Pilot programs with user feedback Advanced training 		R C Provi res
	 Solutions Provide hands-on Alsimulations Use real-world clinical scenarios Experimenters Solutions Incourage daily Alscribe use Pilot programs with	 Solutions Provide hands-on Alsimulations Use real-world clinical scenarios Experimenters Solutions Solutions Encourage daily Alscribe use Pilot programs with user feedback

Reflective Observers

llenges	Solutions	
s may not fully grasp Al scribes improve practice or might inderstand their bilities / limitations.	 Facilitate group discussions & debriefs Analyze AI scribe case studies 	Ko pr lea H0 cli
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Abstract Conceptualizers



olb's experiential learning theory provides a ractical framework for understanding how adults earn. Its application to the challenges faced by CPs looking to adopt AI scribe technology in the inical setting can provide a framework for identification of challenges faced by learners.

References and Acknowledgements

documentation. NEJM Catalyst, 5(3) (2024). care. CDHE (2024).



Discussion

ELT can be interactive & engaging cal nature can allow for iterative refinement for training delivery

Resource-intensive

application is dependent on skilled facilitators nall group/individualized learning may make scaling difficult

dback from reflective learners in Kolb's cycle can allow for continuous improvement

enhance buy-in and reduce resistance to AI be uptake through experiential and reflective dimensions of ELT

Rapid changes in technology may require continuous revisions to AI scribe training

vider resistance to Al's role in healthcare may sult in disengagement and undermine ELT effectiveness

Conclusion

1. Ontario College of Family Physicians. New Data Shows There Are Now 2.5 Million Ontarians Without a Family Doctor. OCFP (2024).

2. Adler-Milstein, et al. Electronic health records and burnout: Time spent on the electronic health record after hours and message volume associated with exhaustion but not with cynicism among primary care clinicians. JAMIA, 27(4), 531 (2020).

3. Tierney, A. A., et al. Ambient artificial intelligence scribes to alleviate the burden of clinical

4. Centre for Digital Health Evaluation - Women's College Hospital (2024). Clinical evaluation of artificial intelligence and automation technology to reduce administrative burden in primary