Healthcare Clinicians Driving Innovation:

Using AI to Build the Tools You Actually Need

May 19, 2026, 12:15 to 1 p.m.

Presented by: Dr. Byron Song & Dr. Kevin Brophy

Webinar recording link: Healthcare Clinicians Driving Innovation: Using AI to Build the Tools You Actually Need

Key Message

- Clinicians can now be both users and builders of digital tools and you don't need a developer background!
- AI lowers the barrier to entry by helping with planning, prototyping, coding, and revision
- Clinician-Led design is the key advantage: those closest to the workflow are best positioned to identify what needs to improve

Tips for Success

- Keep the first project small and useful for your own practice
- Build things without PHI first
- Use AI as a copilot or coach to help plan, draft, and revise the solution
- Starting small, with workflows that do not contain PHI at first to ensure safety while testing (i.e. focus on something related to billing for example)
- Always keep human oversight in place!

A Practical Build-Test-Refine Workflow

1) Define the problem and desired outcome
    a) Start with a specific workflow problem, not a technology
2) Prompt the AI in plain language
    a) Describe the desired outcome
    b) Build with vibe coding (E.g. Platforms include Cursor, Windsurf, Replit) Many platforms have a free version to test, try them out!)
    c) Example: "*Build a simple offline app to convert lab units from US to SI"*
3) Review the first draft or prototype
    a) Treat AI as a coach or copilot, not an independent decision maker to solve the problem on their own
4) Expect to test and iterate
    a) Test with safe example data

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    b) If using PHI, ensure the instructions code to tell the app to process and run locally, and not to share or send any info off local device for security and privacy

5) Give feedback, refine, and repeat
    a) Use plain-language feedback to improve the output
    b) Break large tasks into smaller steps

Privacy and Safety Considerations

Privacy is a critical guardrail. The presenters emphasized that clinicians should not enter personal health information into general AI tools or coding environments unless they are working within a properly secure local or on-premises setup.

- Build things without PHI first
- Use synthetic, fake, or de-identified data for design and testing
- Processing locally is an option to ensure information never leaves your secure control
- You will need to supervise the AI. Your coding agent should directly interact with PHI at any point

Clinician-Led AI Tools in Action!

Remittance Advice (RA) report reader (Dr. Byron Song)

- A free downloadable tool for Ontario Physicians
- Provides a fast intuitive way to view and analyze monthly OHIP remittance Advice Reports. A complete tool that does not store or collet data
- Visit pmhx.ca/practice-tools to request access and download

AMELI AI: Your EMR Assistant (Dr. Byron Song)

- EMR-Integrated AI Agent that does targeted chart reviews and surfaces past medical history to support clinical decision making
- Currently piloting with a select few clinics. Please visit https://pmhx.ca/signup to signup!

Easy Clinic (Dr. Kevin Brophy)

- A comprehensive tool for billing efficiency, finding codes, roster reconciliation and more!
- Visit easyclinic.ca to learn more or contact Dr. Brophy at *easyclinicadmin@gmail.com*

FHO+ Hourly Tracker (Dr. Kevin Brophy)

- Solving the administrative burden of the new hourly billing model with seamless tracking and EMR documentation generation
- Visit easyclinic.ca/fho-hourly-tool to learn more!