

Integrating AI and Technology into Family Medicine

PANELISTS

Dr. Cody Jackson • Ariane Siegel

WITH

Dr. Nikki Bozinoff • Dr. Stephanie Zhou





Mental Health and Addictions

Please introduce yourself in the chat!



@OntarioCollege
#PractisingWell

Your Panelists: Disclosures

Dr. Cody Jackson

Relationships with financial sponsors (including honoraria):

- OCFP Practising Well CoP speaker
- Western University
- Ontario Medical Association
- Cherry Health
- OntarioMD
- Ontario Health
- Independent Recruitment Consultant

Dr. Ariane Siegel

Relationships with financial sponsors (including honoraria):

- OCFP Practising Well CoP speaker
- OntarioMD
- Ontario Medical Association

Disclosures

Dr. Nikki Bozinoff @NikkiBozinoff

Relationships with financial sponsors (including honoraria):

- Ontario College of Family Physicians Practising Well Implementation Group Member, CoP Speaker
- CAMH
- Department of Family and Community Medicine (University of Toronto)
- National Institute on Drug Abuse
- Womenmind
- CIHR
- Academic Health Sciences Alternate Payment Plan

Dr. Stephanie Zhou @stephanieyzhou

Relationships with financial sponsors (including honoraria):

- Ontario College of Family Physicians Practising Well Scientific Planning Committee
- Canadian Medical Association Honoraria for practice management lectures
- Habitat for Humanity GTA Board of Directors member
- Toronto Public Health Board of Directors member

Disclosure of Financial Support

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Potential for conflict(s) of interest: N/A

Mitigating Potential Bias

- The Scientific Planning Committee (SPC) has control over the choice of topics and speakers.
- Content has been developed according to the standards and expectations of the Mainpro+ certification program.
- The program content was reviewed by the SPC.

Land Acknowledgement

We acknowledge that the lands on which we are hosting this meeting include the traditional territories of many nations.

The OCFP and DFCM recognizes that the many injustices experienced by the Indigenous Peoples of what we now call Canada continue to affect their health and well-being. The OCFP and DFCM respects that Indigenous people have rich cultural and traditional practices that have been known to improve health outcomes.

I invite all of us to reflect on the territories you are calling in from as we commit ourselves to gaining knowledge; forging a new, culturally safe relationship; and contributing to reconciliation.

Arrival Practice

Breathe in

Integrating AI and Technology into Family Medicine

You raised important questions we'll try to work through together today:

- To learn more about AI options and discuss specific examples currently available/ease of use/cost etc.
- Which AI incorporates well into my EMR?
- How to integrate AI into clinical practice to reduce burden of clinical admin/data management?
- Do we need explicit consent from patients to use AI charting assist programs?
- AI models and confidentiality of content?



Integrating AI and Technology into Family Medicine

Your Panelists

Dr. Cody Jackson

London, ON

Ariane Siegel

Toronto, ON



Integrating AI and technology into family medicine

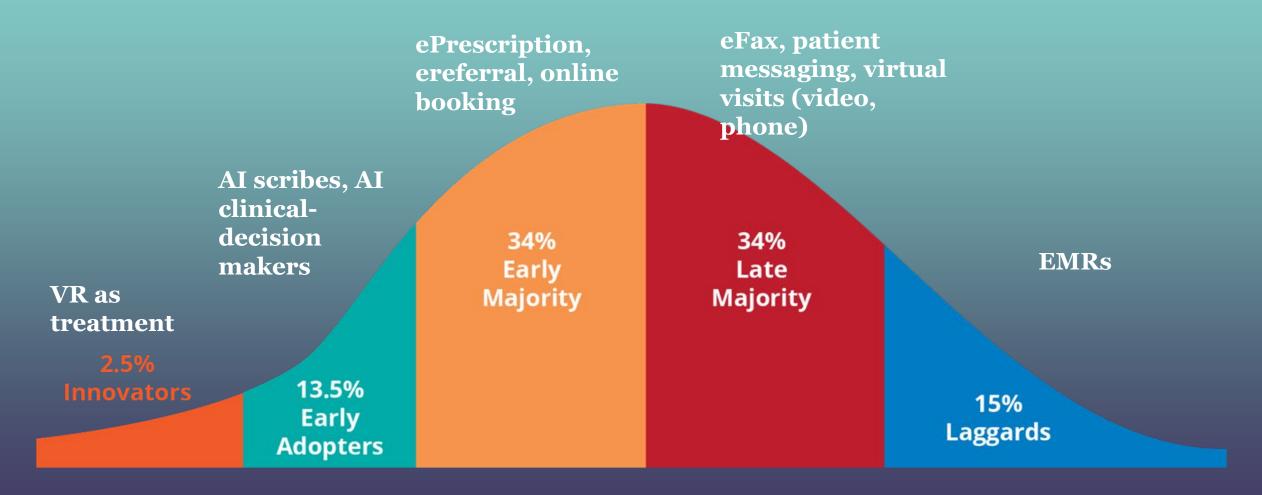
Why am I talking?

Full-time Comprehensive Community Family Physician*
OntarioMD Peer Leader*
Clinical Digital Lead for Ontario Health*
Tech Nerd^

*paid position

^costs me significant money

Diffusion of Innovation Theory



Technology Evaluation

01

Time

Does it (eventually) make you more efficient

03

Annoyance

Physician-initiated, ability to offload, is it your area of interest

02

Integration

Does it work well with your EMR, province, regulations, patient safety

04

Money

Cost, ability to recoup, paid for by someone else

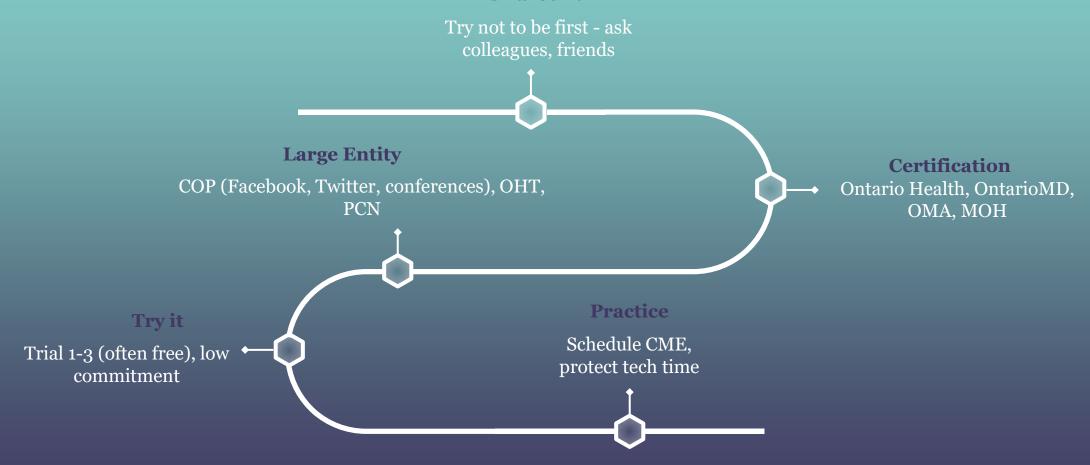


Tech Specifics

Tool	DESCRIPTION	Best Use Cases
AI Scribe	Self-learning dictation-based tool that works to convert audio conversations into clinical notes eg. Tali, AI scribe, scribeberry, many	MH visits, slow typer, eye contact, take home notes, not perfectionist
Patient Messaging	Allows you to message with patients with attachments to communicate clinically, test results, request information eg. Medeo, CHR, Ocean, Pomelo, etc	Test results, requested notes, requesting very specific information/photos
Video Virtual Visits	Software that allows video visits with patients, possibly integrated into your EMR eg. OTN, EMRs, etc	EMR-integrated, needed for billing, comfortable patients
Online Appointment Booking (OAB)	Allows patients to self-book appointments within set parameters eg. CHR, Ocean, Pomelo	Short-focussed appointments, trained patient population, single-issue visits

Technology Evaluation

Ask around





AI Scribes



- OMD/WHIV study significant time savings for most physicians, hours/week
- Vendors are more similar than different
 - All do an okay job, some have fancier tools, some tools have clinical decision-making, fill out forms, read incoming notes
- Most have trials
 - You have unique interests and styles, just try them. All will likely be better than no scribe for most
- EMR incorporation
 - o Most use copy/paste, few have direct EMR integration and you may not want this yet
- Minimum requirements
 - o Computer, microphone, you, patient consent

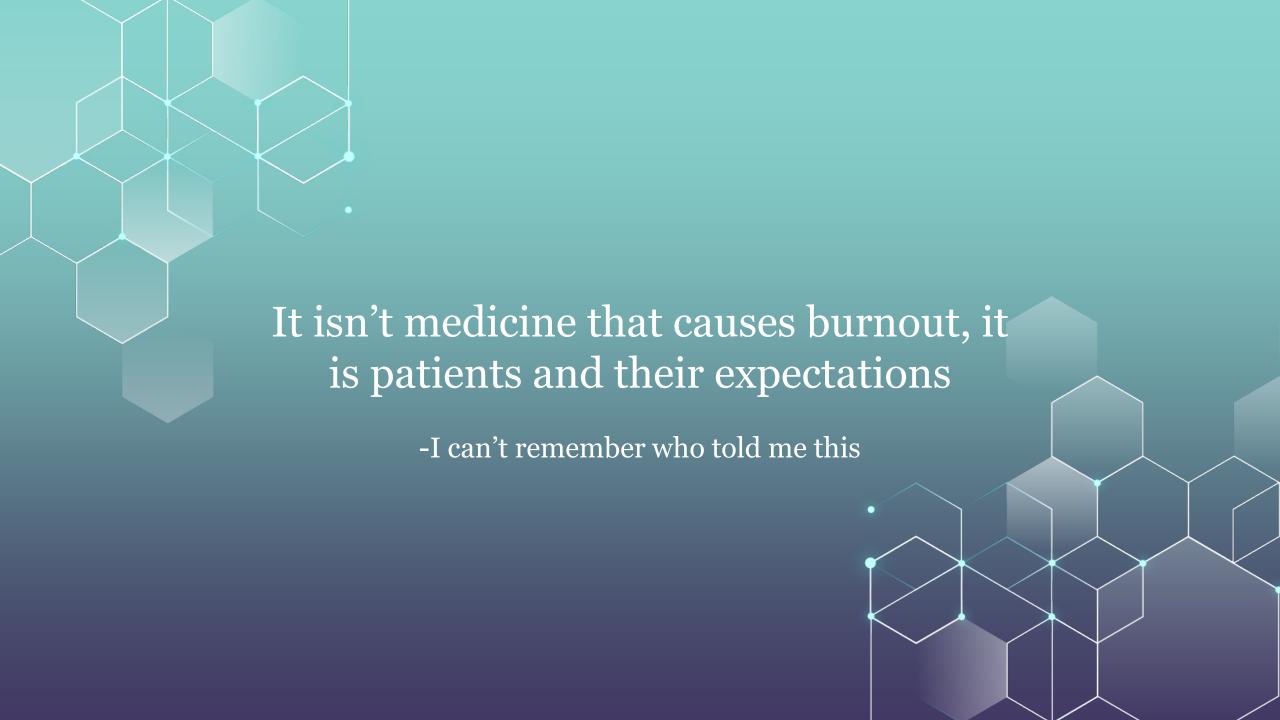


Burnout



By the government, by my patients and by myself





Burnout Tips

1



Be early majority

Offload as much work as possible to supports, control information flow 2



Integrate your tools

Trade integration and endorsement for quality if needed

3



Technology CME

Book dedicated time to practice



Access

- Today
 - o iPhone EMR app so I can check inbox on the toilet
- 30 years ago
 - not in office = inbox doesn't exist

I have clarified with CPSO and CMPA that when not referring to critical results, the bar is what a "reasonable physician" would do

 evening/weekends off sounds reasonable to me







Clarification

Many of the issues causing burnout are systemic and are not on you to address or fix.

Do what you can within your sphere of influence.





Your Panelists

Dr. Cody Jackson

London, ON

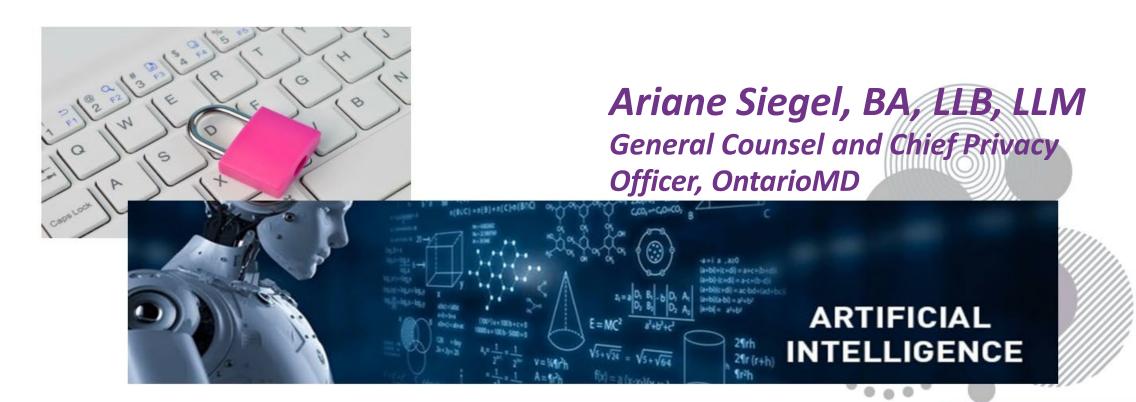
Ariane Siegel

Toronto, ON

Integrating AI and Technology into Family Medicine



HEALING FOR HEALERS: HARNESSING TECHNOLOGY FOR A HEALTHIER HEALTHCARE SYSTEM



Overview



- 1. Wellness in the Healthcare System
- 2. Coordination 2 Case Studies

Technological Solutions to Wellness

- Al scribes
- Bundled approaches to privacy & cybersecurity
- Training



WHY IS A LAWYER TALKING ABOUT WELLNESS?

Another profession suffering from the same stressors

- 35.7% report anxiety
- 28.6% moderate to severe **depression**
- 55.9% reported **burnout**

Physicians suffer from similar if not higher statistics

- 72.9% reported some level of burnout in 2021, up from 66% the year prior
- 34.6% felt completely burnt out
- 23% increase in outpatient treatment for **substance-use** visits
- Among professions, physicians have highest risk of death by suicide

X HIGH-STRESS ENVIRONMENTS

- X DEMANDING WORKLOADS,
- X CULTURE OF "OVERWORK"
- X EMOTIONALLY/ETHICALLY COMPLEX WORK
- X IMPACT ON PERSONAL LIFE
- X STIGMA AROUND SEEKING HELP



1. WELLNESS IN THE HEALTHCARE SYSTEM

- Growing list of obligations
- Regulatory requirements and compliance (PHIPA, FIPPA, PIPEDA)
- Data governance Issues related to data deletion, data ownership, data storage, data use, data portability, data retention and data migration
- Privacy breaches Daily practice, cyberattacks, ransomware and response plan
- Vendor management Costs, dispute resolution, warehousing, standards, and privacy
- **Insurance coverage** Concerns over medical-legal risk, legal defence, liability protection, cyber liability & risk- management protection.
- **IT technology** Management, adoption and implementation of new technologies.
- And most of all, your Administrative Burden





THE ADMINISTRATIVE BURDEN

2023 survey shows family doctors spend 19 hours a week on administrative work – mostly unpaid and unnecessary

- 1 full day of seeing patients = creates **5 hours** of admin work
- Comprises 40% of the work currently done by family doctors
- 94% of family doctors say they feel overwhelmed by administrative/clerical tasks

Real risk of physicians <u>leaving the</u> profession or not keeping up with patients' expectations/needs



2. Bundled and Coordinated Approach (2 Case Studies - Al and Cyber)



Al Marketplace is an online hub connecting businesses with Al solutions to clinicians in Ontario and beyond looking to buy an Al scribe through a trusted site.

Physicians must be at the center

The AI scribe tools, and underlying privacy, security and regulatory requirements must be designed with physician needs. Need governance, implementation on training.

. Trust at center

Tools to support Supported by information about All the product information you need is here to save you time researching the products yourself and help you make an informed purchase decision.

A. The future of AI in Primary Care



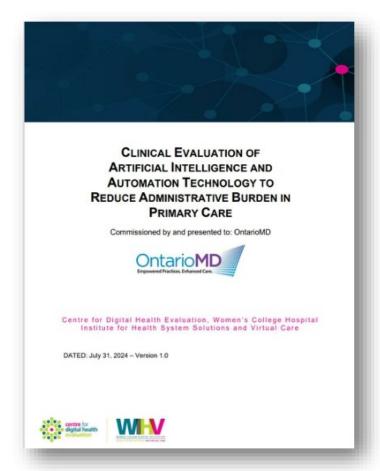
"...the ability to have all of the data about a person assimilated and analyzed, to have scans and slides read ... liberates doctors from keyboards so they can look patients in the eye."

Eric Topol, MD and Medical Futurist

AI will reduce your workload, simplify your practice and give time back to **you!**



Evaluation Study of Al Scribe



See the full Evaluation Study Report here:

https://www.ontariomd.ca/Documents/AI%20Scribe/AI%20Scribe%20Evaluation Final%20Report vf.pdf

OntarioMD's Evaluation Study confirms the value of AI scribes in reducing administrative burden.

- In the lab setting, using an AI scribe was associated with a 70% to 90% reduction in time spent documenting
- PCPs reported a 3-4 hour reduction per week in the amount of time spent on administrative tasks both during and after work hours
- 75% of PCPs reported a significant improvement in their cognitive load during patient consultations
- 83% of PCPs said they would use an AI scribe in their practice long term
- Over half of PCPs reported improved work-life balance, more personal and family time, increased job satisfaction, and professional fulfillment, with women more likely to experience benefit.

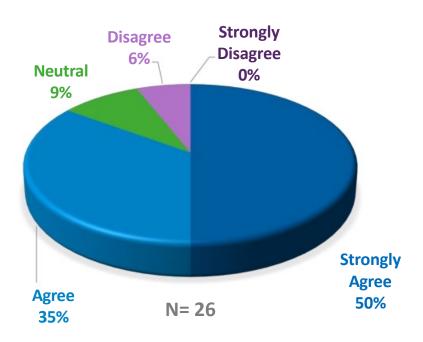
"... my friends and family were surprised at me coming home at a reasonable time and having the energy to participate in activities, community volunteering events and other functions. I felt much better about Being a comprehensive long term family doctor."



Family Physician, Female

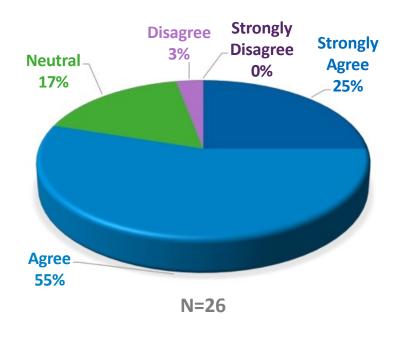


Clinical Workload Management, Efficiency, & Burnout



Most physicians (85%) reported reduced cognitive and administrative burdens and time savings, indicating the AI scribe's effectiveness in managing workload and reducing documentation-related stress.

AI Scribe Functionality

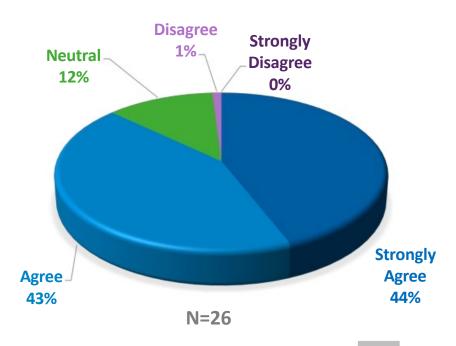


The theme centers around physician satisfaction with the AI scribe's functionality, adaptability, conversational capture, and comprehension of clinical terminology. Most physicians (80%) expressed overall satisfaction with the AI scribe, highlighting its practical features and functions.



Patient Perception and Satisfaction

Physicians' Survey



A high percentage of physicians (87%) reported that their patients had positive reactions to the AI scribe, indicating its beneficial role in enhancing patient experiences and the quality of care.

Patients' Survey

•Focus on Conversation: 95%

•Comfort with AI Scribe: 92%

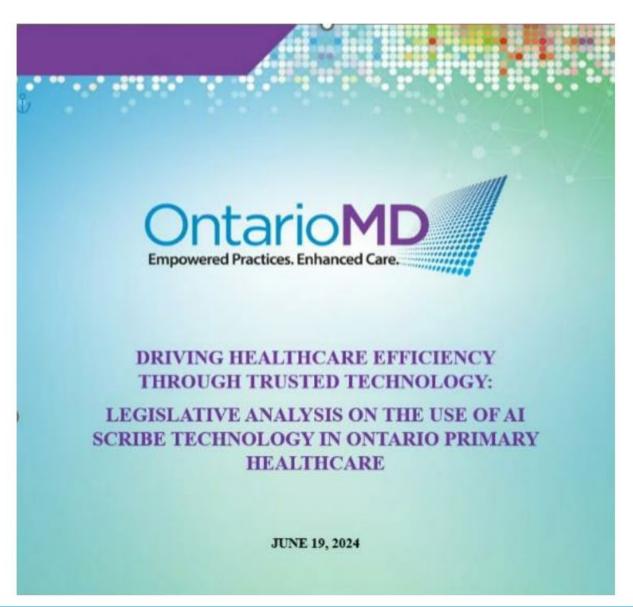
•Visit Satisfaction: 84%

•Enhanced Doctor-Patient Relationship: 78%

Patient-Physician Correlation:

- Both physicians and patients recognize the Al scribe's role in enhancing clinical interactions.
- High comfort levels with AI scribes reported by patients mirror physicians' observations.
- Increased satisfaction in care experience further affirms AI scribe's positive impact.





Al Scribe Legal & Regulatory Analysis

- Role in the evaluation included legislative, regulatory, and market analysis
- Key issues managed by OMD for the study:
 - Contract management and requirements
 - Identifying/mitigating risks of pilot
 - Obtaining input/feedback of stakeholders
 - Reviewing current legal/regulatory principles and the compliance mandates of clinicians testing the AI products
- Who did we engage CMPA, CPSO, IPC, MOH, OH, OMA, Patients,



Legal Landscape Today



Canada: AIDA; Voluntary Code of Conduct; Guide on Generative AI

Ontario: Trustworthy Al Framework

U.S.: Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence

E.U.: AI Act

Draft Federal Legislation: Bill C-27 and The Artificial Intelligence and Data Act



B. OMD's PRIVACY & SECURITY BUNDLE OF SERVICES

Offering physicians and clients with a suite of products and services that can help to prevent and respond to privacy breaches and security threats



OMD Clinic Maturity Assessment to identify security vulnerability and gaps + make recommendations for improvement/remediation



DNS firewall

to prevent and protect systems and users from privacy and security threats such and hacking, ransomware, and phishing

- White labelled DNS Firewall Defense by Canadian Internet Registration Authority (CIRA)
- ✓ Dashboard Reporting on threats



Privacy and Security Training

equally suitable for community practitioners and institutional settings

- ✓ OMD-developed curriculum
- ✓ Cybersecurity content
- ✓ Reporting on completion



Privacy and Security Training



2023 Edition for Acute and Community Care

FOR PHYSICIANS & STAFF

Ontario Health ("OH") "EHR End-User Contracts require compliance including training that is audited/logged

- ✓ OMD-developed curriculum
- ✓ Cybersecurity content
- ✓ Certificates
- ✓ Reporting on completion can be provided



NEW TECHNOLOGIES

Have the ability to...

- Reduce stress associated with potential data breaches or compliance issues
- Built-in safeguards minimize personal/professional anxiety of facing legal/regulatory penalties
 - Can give a sense of control over operations, leading to higher job satisfaction and overall well-being
- Prevent burnout
 - Reduces cognitive load associated with managing a clinical practice
- Administrative burden reduced & simplified practice operations
 - Promotes efficiency by reducing distracting and allowing physicians to focus on core responsibilities
 - Fewer after-hours emergencies & paperwork promotes work-life balance
- Increased patient trust & satisfaction



LOOKING AHEAD

- Alignment privacy, medical regulators, government agencies
- Coordinated approach
- Requirements
- Competition
- Current clinician barriers
 - "Safe" contracts
 - Cost/value for money



Thanks for Listening...

Your Questions!





OntarioMD Products and Services







- Ministry of Health
- Ministry of Transportation

10 Vendors of certified EMRs

-eConsult









OMD CONNECTS

Partnered Products





eFORMS









OMD CONNECTS

OMD Products











OMD EDUCATES













Tools



Links to resources shared today will be sent to participants following the session.

Tools and Resources

Resource	Type	Link
Verified Solutions List for Virtual Visits	Resource	Verified Solutions List for Virtual Visits Ontario Health

Verified Solutions List for Virtual Visits

This list is meant to help health service providers identify virtual care solutions that are appropriate for clinical use and that meet a standard for privacy, security, technology and functionality.

Education



Links to resources shared today will be sent to participants following the session.



Osteoporosis and Fracture Prevention Workshop



Scan to learn more

December 4, 2024 1 p.m. – 4 p.m.

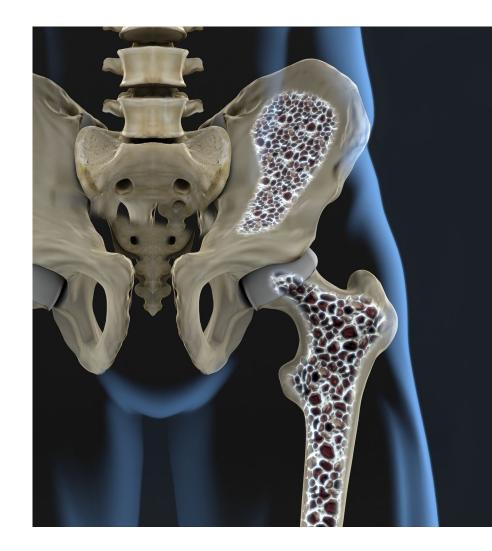
Register Now!

\$195 + HST

This is a three-credit-per-hour Mainpro+ certified program













Antimicrobial Stewardship in Primary Care Audit and Feedback to Improve Antibiotic Prescribing



November 14, 2024 12:00 p.m.to 1:00 p.m.

FREE

Register Now!





Dealing with Grief in Family Medicine

Date: October 30th, 2024 8am-9am

Speakers: Dr. Mel Borins & Dr. Rachel Shour

Register now for this free interactive webinar!

CFPC Mainpro+-Group Learning (one-credit-per hour)
Approved for 1 hour of MDPAC Group CE credits



Practising Well CoP – Self Learning Program

The Practising Well CoP is now certified for self learning credits!

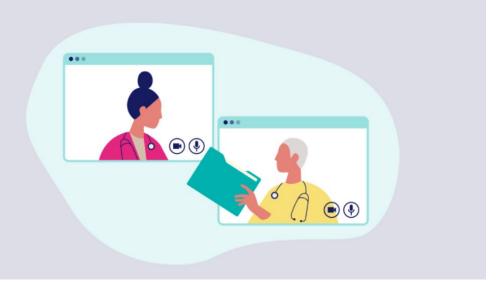
Earn **1-credit-per-hour** for reviewing the recording and resources from **past CoP sessions**. The self learning program is certified for up to 50 Mainpro+ credits.



Learn More and Participate

Peer Connect

Enabling you to connect, share and learn from your fellow family physicians.





Mentorship Program - Connect with a Peer Guide!

An opportunity to partner with another family physician, **one-to-one or in a small group**, for support as you **explore clinical complexity and increase your confidence** caring for patients with mental health challenges, substance use, and chronic pain. A focus can be on your well-being as you engage in this challenging work.





Supports



Supports



OMA Physician Health Program https://php.oma.org

Centre for Addiction and Mental Health Health Care Provider (HCP) Resource Site

http://www.camh.ca/covid19hcw

CMA Wellness Hub

https://www.cma.ca/physician-wellness-

<u>hub</u>



- PARO 24/7 Helpline for Residents, Family Members, Medical Students
- 1-866-HELP-DOC



- https://www.ontario.ca/#support-health-care-worker
 - Self-led / With peers / Talk to a clinician
- •Ontario Shores Centre for Mental Health Sciences, Whitby
- •St. Joseph's Healthcare, Hamilton
- •The Royal Ottawa Mental Health Centre, Ottawa
- Waypoint Centre for Mental Health Care, Penetanguishene
- •Centre for Addictions and Mental Health (CAMH), Toronto



- ECHO Coping with COVID
 - for health providers (educational credits)
 - Fridays 2-3pm EST

https://camh.echoontario.ca/echo-coping-with-covid/

Support for you and those you care about.

Upcoming Community of Practice

Approaches to caring for children's mental health

with Drs. Fereshte Lalani, Anita Greig, Naima Javaid

November 27, 2024 8:00am – 9:00am

Register Now

practisingwell@ocfp.on.ca

