ARTIFICIAL INTELLIGENCE (AI) IN HEALTHCARE:
Understanding and Managing the Legal and Ethical Risks

Program Chairs

Mary Jane Dykeman
INQ Data Law

Carole Piovesan
INQ Data Law

Date and Time

February 3, 2021
9:00 a.m. – 4:30 p.m. EST

Online Replay:
March 10, 2021
9:00 a.m. – 4:30 p.m. EDT

Location

ONLINE – Live, Interactive

Includes unlimited 120-day online access to the program archive!

With the onset of a global pandemic, the imperative to innovate in the healthcare sector is even more pressing. AI can have a profound impact, but must meet legal, ethical and regulatory obligations.

Invest a day with leading experts. Get the knowledge and practical tools to move your organization forward with confidence, in areas including:

· How does AI integrate into the health sector? What are the key benefits?

· Understanding health data, data analytics and standardization of data

· Legal and ethical challenges and considerations

· What is the current landscape and where are the opportunities?

· Identifying the security risks and strategies to deal with them

· Consequences when risk management protocols are not followed

PLUS! In small groups, you will learn-by-doing and work with a real-life case file.

Register today at:
osgoodepd.ca/AI

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Artificial Intelligence (AI) in Healthcare:

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More than ever, today's health systems are looking towards innovation to offer improved quality, new therapeutics, reduce costs, save time and provide better outcomes. It is imperative you have the legal, ethical and regulatory understanding to innovate responsibly – and with confidence.

During the program, you will be able to engage with the faculty and other delegates. Working in small groups, you will assess and analyze a sample case file, based on real-life examples. This is your chance – in a supportive, zero consequence environment – to get the questions you want answered.

Topics Include

- Is artificial intelligence the solution to the needs for your organization?
- Answering those ethical questions: Can we? Should we? How should we?
- Grasping the opportunities for AI in virtual care medicine
- Understanding health data and data analytics
- AI in health: from operational tasks, clinical activities through to patient engagement
- What are your security and privacy risks? How do you deal with them?

Who Should Attend

- Privacy officers and other privacy professionals working in healthcare settings
- Health records leaders/custodians
- IT and IM leads in healthcare
- Data analytics and innovation leads
- eMR vendors
- Lawyers advising on privacy issues and information technology or health
- Healthcare administrators or representatives from hospitals, long-term care facilities (CEOs, VPs, directors, risk managers, operations managers, compliance officers, policy advisors, ethicists and patients' rights advocates)
- Professional association and licensing body representatives
- Medical directors of healthcare organizations and government agencies
- Heath insurance industry professionals
- Ethicists
- Government and public policy advisors

Agenda

8:30 a.m.
Program Login

9:00 a.m.

Welcome from the Chairs

Mary Jane Dykeman, INQ Data Law

Carole Piovesan, INQ Data Law

9:05 a.m.

The Law of Artificial Intelligence (AI)

Mary Jane Dykeman, INQ Data Law

Carole Piovesan, INQ Data Law

This opening module will provide a detailed overview of Artificial Intelligence that will give you a comprehensive overview of core concepts and the legal framework. Discussions include:

- What is Artificial Intelligence (AI)?
- What does it look like in the health sector?
  - operational tasks – billing, documentation, risk adjustment coding, quality measurement
  - clinical activities – diagnostics, surgical techniques
  - patient engagement - care management and call center routing
- What are your legal obligations? Where do those obligations come from?
- Is AI the solution to the needs of your organization?
  - what problems are you trying to solve?
  - what are you looking for in your data?
  - what data do you have access to?
  - is your data reliable?
- Determining next steps – the path forward

10:00 a.m.

Applied Artificial Intelligence in Healthcare: Bridging AI with Clinical Care

Dr. Muhammad Mamdani, PharmD, MA, MPH, Vice President, Data Science and Advanced Analytics, Unity Health Toronto; Director, University of Toronto Faculty of Medicine Centre for Machine Learning in Medicine; Professor, University of Toronto

The application of artificial intelligence in healthcare involves a sound understanding of healthcare data, data science and knowledge translation. Dr. Mamdani will discuss developments and emerging issues in this area.

· Healthcare data environments that enable AI

· Data science skill sets required for developing and implementing AI solutions

· Engaging healthcare professionals and managers in developing and deploying AI solutions

· The impact of AI solutions on clinical outcomes and hospital efficiency

· Ethical and legal considerations of AI applications in healthcare

· Opportunities for commercialization

11:00 a.m.
Wellness Break

11:15 a.m.

Artificial Intelligence in Health: Perspectives Panel Discussion

Arun Dixit, Digital and Innovation Strategist, Healthcare Insurance Reciprocal of Canada (HIROC)

Fanny Sie, Strategic Healthcare Partner (Director) – Artificial Intelligence and Oncology, Roche Canada – R&D and Clinical Testing

Sanjana Basu, Investor, Radical Ventures

In order to ensure organizational success, you must looking at AI in healthcare from different perspectives. This expert panel will provide practical guidance and strategies, allowing you to:

· Understand the current landscape of AI in healthcare

· Recognize how AI is currently being used

and what opportunities exist

· Discover how AI is being used in drug discovery, virtual care and diagnosis

· Recognize the benefits of AI to patients – time saved, reduced costs, better outcomes

· Recognize the benefits to healthcare providers and organizations – better quality services, new therapeutics

· Understanding potential risks and challenges with implementing AI

· Grasp the future opportunities for AI

12:15 p.m.
Lunch Break

1:00 p.m.

Fairness Bias and Ethics

Dr. Melissa McCradden, PhD, MSCc (she/her), Bioethicist, AI in Healthcare, Department of Bioethics and Genetics & Genome Biology, The Hospital for Sick Children; Postdoctoral Fellow, Vector Institute for Artificial Intelligence

As with other biomedical technology, questions of ethics, bias & fairness are top of mind when AI in health is discussed, including:

· Can we? Should we? How should we?

· What happens when an AI system shows bias and unfairness?

· How should we be thinking about clinical judgment?

· How should we responsibly evaluate healthcare AI for safety and efficacy?

· How can ethical analysis better support the beneficial integration of AI into healthcare?

2:00 p.m.

Case Study Introduction

Mary Jane Dykeman, INQ Data Law

Carole Piovesan, INQ Data Law

This session will be an interactive discussion with your colleagues on the main liability pillars in AI in health. The facilitators will introduce a case study specifically developed to get you thinking about the following:

· Identifying the primarily liability risks and

strategies in dealing with them

· Security issues you must address

· What is the liability structure of using AI in the health sector?

· What do you need to put in place to manage data collection and usage responsibly?

· Commercialization of data – can you sell data?

2:15 p.m.
Wellness Break

2:30 p.m.

Small Breakout Groups: Working with the Case File

Mary Jane Dykeman, INQ Data Law

Carole Piovesan, INQ Data Law

Delegates will be placed into small groups in the online platform and will work through the issues raised by the case study. Together, each group will come up with strategies for dealing with the challenges raised. This session will not be recorded.

3:15 p.m.

Group Debrief and Wrap-Up

All facilitators and delegates will re-convene into the main online room and discuss how their group strategized the scenario, creating a list of best practices and action plan.

There will be plenty of opportunity for discussion and Q&A. You will walk away from this session armed with the tools and tactics you can immediately put to use in your organization.

4:00 p.m.
Program Ends

Register today at:
osgoodepd.ca/AI

Chairs

Mary Jane Dykeman
INQ Data Law

Carole Piovesan
INQ Data Law

Faculty Includes

Sanjana Basu
Investor, Radical Ventures

Arun Dixit
Digital and Innovation
Strategist, Healthcare
Insurance Reciprocal of Canada
(HIROC)

**Dr. Melissa McCradden,
PhD, MHSc (she/her)**
Bioethicist, AI in Healthcare,
Department of Bioethics
and Genetics & Genome
Biology, The Hospital for Sick
Children; Postdoctoral Fellow,
Vector Institute for Artificial
Intelligence

**Muhammad Mamdani,
PharmD, MA, MPH
Vice President, Data Science
and Advanced Analytics,**
Unity Health Toronto; Director,
University of Toronto Faculty
of Medicine Centre for
Machine Learning in Medicine;
Professor, University of Toronto

Fanny Sie
Strategic Healthcare
Partner (Director) – Artificial
Intelligence and Oncology,
Roche Canada – R&D and
Clinical Testing

What past attendees from our health programs have said about the programs and the online experience:

Excellent and timely information concisely presented by knowledgeable experts.

This phenomenal course stimulates and encourages me to go back to my hospital and review and determine if we have the right policies and procedures in place.

Just thank you to your faculty and IT support for making this work. Very impressive and appreciated!

Registration Details

Fee per Delegate
$545 plus HST
Newly Licensed Rate (2018 – 2021): $272.40 plus HST

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