



Artificial Intelligence (AI)

In Your Dental Care

What is AI in dentistry?

AI is increasingly being used in dentistry to support delivery of care.

Artificial intelligence refers to computer systems that can perform tasks that we might usually associate with human intelligence, such as problem solving, and making predictions, recommendations, and decisions.

In dentistry, examples of AI tools include:

- AI scribes** that listen to conversations between the dentist and patient and quickly generate summary notes to assist with documentation
- Virtual assistants** that help with administrative tasks like scheduling and confirming appointments
- Image analysis tools** that analyze x-rays and other images to help dentists detect dental conditions, such as cavities and oral disease

When used responsibly, AI tools can improve efficiency and accuracy, and help dentists provide personalized care to patients.

What are the limitations?

While AI can be helpful, it is not perfect. It may sometimes make mistakes or not always interpret your unique situation correctly. AI is a support tool, not a replacement for your dentist's professional judgment. Your dentist remains responsible for clinical decision-making around your care and providing human oversight by reviewing AI-generated results.

Protecting your privacy

Your personal health information remains protected under Ontario's *Personal Health Information Protection Act, 2004*.

When AI tools are used, dentists must ensure:



Your data is kept secure



Your data is not used for training AI tools without your explicit consent



Your consent is obtained when needed



Questions or Concerns?

If you have questions about how AI is being used in your dental care, speak with your dentist or a member of the dental team.

You may also review the Royal College of Dental Surgeons of Ontario's *Artificial Intelligence in Dentistry Guidance*, which provides recommendations to dentists on how to use AI responsibly and ethically.