

Framework for Safe Artificial Intelligence Integration

Accelerating Health AI Adoption via the Health AI Validation Network (HAIVN)

Artificial Intelligence holds transformative potential for Canadian healthcare, offering faster triage of critical cases, automated workflow management, and diagnostic assistance. However, adopting unvalidated or non-standardized AI algorithms poses risks to patient safety, health equity, and data privacy. Canada requires a dedicated infrastructure to evaluate and safely deploy medical AI.

CORE POLICY ASK

Invest \$50 million over 5 years (allocated from ISED's AI Missions Program) to establish and operationalize the **Health Artificial Intelligence Validation Network (HAIVN)** as Canada's independent, clinician-led certification authority and continuous surveillance network for medical AI.

Strategic Initiatives & Impact

- **Rigorous Clinical Validation:** Establish standardized national protocols to evaluate AI software efficacy across diverse demographic and clinical populations before deployment.
- **Accelerated Clinical Adoption:** Provide Canadian healthcare providers with a trusted library of validated, safe AI tools designed to support radiologists and reduce reporting turnaround times.
- **Global Leadership:** Position Canada as a premier jurisdiction for responsible, ethical, and evidence-backed AI in healthcare.

HAIVN Lifecycle assurance

Complements product authorization and local governance.

"Safe & Swift" Standardized validation turns raw AI innovation into trusted clinical diagnostic tools.

① Baseline evaluation

- Deployment audit
- Canadian reference datasets
- Specialty-defined metrics

② Continuous monitoring

- Recurring drift testing
- Real-world indicators
- Independent safety-event channel

③ Risk-based re-evaluation

- Review frequency scaled to risk
- Defined triggers: anomalies, guidelines, model updates

④ Renewal decision

- Renew • Condition
 - Suspend • Withdraw
- With safe transition

The Assurance Gap in Numbers

\$200M

committed to building and adopting clinical AI under the AI for All health mission

0\$

in dedicated federal funding to assess independently whether those tools keep working once deployed

12,000+

primary-care clinicians enrolled for publicly funded ambient AI scribes

6.5M

Canadians covered by the Canadian Dental Care Plan, where AI already reads radiographs

81%

externally validated radiology algorithms that lost performance on external

42 of 47

Canada's rank for public trust in AI among surveyed countries

18.5M

physician hours lost each year in Canada to unnecessary administrative work



Canadian Association of Radiologists
L'Association canadienne des radiologistes