Organizational ethics of AI integration in Health Institutions

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Organizational ethics

From values to policy

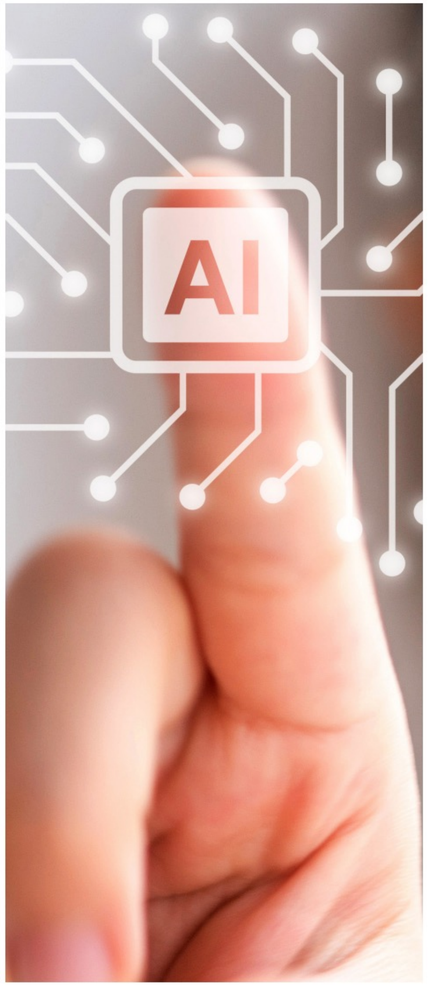
SickKids®

Equity, Diversity & Inclusion

Leverage artificial intelligence integrating big data spanning the genetic code to the postal code

Fuel discovery and accelerate translation to groundbreaking clinical trials and care

Ensure every patient has the opportunity to engage in and the right to benefit from research



COMPASSION | INTEGRITY | COLLABORATION | INCLUSION | INNOVATION | EXCELLENCE

Clinical Integration Policy for Data Science

Justice, Equity, Fairness, & Anti-Bias (JustEFAB)

“How do I know that’s safe for *my* kid?”

- *Question from a Mom*

“So, what are your standards and stuff for AI?”

“How do you decide if it works and when it’s good enough to use?”

- *Questions from Children’s Council members*

Clinical integration at SickKids

Data Access and Model Development	Preclinical Testing (silent trial)	Prospective Clinical Evaluation
Design thinking	Algorithmic validation	Traditional research ethics processes
20 Questions for good collaborations	Analytic plan (REB)	Human factors, implementation science, cognitive load evaluation
Data, fit for purpose?	Human factors, implementation science, cognitive load evaluation	Reporting guidelines as templates
Data Access protocols (REB)	Infrastructure: feasibility, readiness	
Data Trust Committee	EHR integration planning	
	Change management	
	Child and Youth Advisory Council*	

Preparation and conceptualization	Ethical decision-making (evaluate)	Justice (core research ethics principle)
Data inclusivity	Analytic plan for fairness	Inclusive recruitment
Algorithmic fairness evaluations	EDI principles for human factors	Comparison to status quo
Ethical decision-making (plan)		

Organizational ethics

Living our values

- Efficient use of resources (people, computational systems, consultation)
- Consistent and clear process, awareness of the steps to integrate
- Standpoint theory as an organizing framework = science is better when diverse disciplinary lenses and lived experiences advise on its conduct
- Capacity-building for our people (clinicians, scientists, youth advisory members)
- Ethics is embedded across the entire integration pipeline

Thank you!

SickKids®

AIM
AI in Medicine for Kids