Appendix 1: research strategy

| Concepts                | Concepts definition                 | Search terms                     |
|-------------------------|-------------------------------------|----------------------------------|
| Artificial Intelligence | Artificial Intelligence encompasses | Artificial intelligence          |
|                         | a range of computational techniques | Intelligence program             |
|                         | and algorithms that enable machines | Machine Learning                 |
|                         | to perform tasks that typically     | Deep Learning                    |
|                         | require human cognition. These      | Natural Language processing      |
|                         | tasks include learning from data    | Large language model             |
|                         | (machine learning), understanding   | Computer vision                  |
|                         | natural language (natural language  | Reinforcement learning           |
|                         | processing), recognizing patterns   | Predictive analytics             |
|                         | (pattern recognition), and making   | Neural networks                  |
|                         | decisions or predictions.           | Supervised learning              |
|                         |                                     | Unsupervised learning            |
|                         |                                     | semi-supervised-learning         |
|                         |                                     | Generative Adversarial network   |
|                         |                                     | Neural network                   |
|                         |                                     | Sentiment Analysis               |
|                         |                                     | Clustering                       |
|                         |                                     | DBSCAN                           |
|                         |                                     | Principal Component Analysis     |
|                         |                                     | Linear regression                |
|                         |                                     | Polynomial Regression            |
|                         |                                     | Logistic regression              |
|                         |                                     | Naive Bayes                      |
|                         |                                     | Decision tree                    |
|                         |                                     | Random forest                    |
|                         |                                     | K-nearest neighbor               |
|                         |                                     | K-means                          |
|                         |                                     | Support vector Machine           |
|                         |                                     | Gradient boosting                |
|                         |                                     | Dimensionality reduction         |
|                         |                                     | AdaBoosting                      |
|                         |                                     | AdaBoost                         |
|                         |                                     | Autoencoder                      |
|                         |                                     | Q-learning                       |
|                         |                                     | Deep Q-Network                   |
|                         |                                     | Monte Carlo                      |
|                         |                                     | Ordinary Least Square Regression |
|                         |                                     | Orthogonal Matching Pursuit      |
|                         |                                     | Bayasian Pagrassian              |
|                         |                                     | Quantile Regression              |
|                         |                                     | Isotonic regression              |
|                         |                                     | Stenwise regression              |
|                         |                                     | Least-angle regression           |
|                         |                                     | "Stochastic Gradient Descent     |
|                         |                                     | Ensemble Learning                |
|                         |                                     | Convolutional Neural Networks    |
|                         |                                     | Recurrent Neural Networks        |

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|                     |  | Long Short-Term Memory network |
|---------------------|--|--------------------------------|
|                     |  | Generative Adversarial network |
|                     |  | Transformer Network            |
|                     |  | Deep Belief network            |
|                     |  | Deep O-network                 |
|                     |  | Variational Autoencoder        |
|                     |  | Graph Neural network           |
| Clinical management | This concept encompasses patient       | healthcare practice            |
| of natients         | orientation assessment and             | ("health care" AND Procedure)  |
| or purchas          | diagnosis patient treatment and care   | ("healthcare" AND Procedure)   |
|                     | with their planning and                | care practices                 |
|                     | coordination patient monitoring and    | medical care                   |
|                     | follow-up, patient education and       | Delivery of Healthcare         |
|                     | engagement.                            | Healthcare Delivery            |
|                     |  | Health Care Delivery           |
|                     |  | Delivery of Dental Care        |
|                     |  | Dental Care Delivery           |
|                     |  | Clinical Decision-Making       |
|                     |  | Delayed Diagnosis              |
|                     |  | Diagnosis                      |
|                     |  | Diagnosis, Dual                |
|                     |  | Diagnostic Errors              |
|                     |  | Early Diagnosis                |
|                     |  | Incidental Findings            |
|                     |  | Overdiagnosis                  |
|                     |  | Prodromal Symptoms             |
|                     |  | triage                         |
|                     |  | Prognosis                      |
|                     |  | Theranostic Nanomedicine       |
| Canadian context    | At least one of the authors is         | Canada                         |
|                     | affiliated with a Canadian institution | Canadian context               |
|                     |  | Canadian                       |
|                     |  | Quebec                         |
|                     |  | Alberta                        |
|                     |  | British Columbia               |
|                     |  | Manitoba                       |
|                     |  | New Brunswick                  |
|                     |  | Labrador                       |
|                     |  | Newfoundland                   |
|                     |  | Nova Scotia                    |
|                     |  | Ontario                        |
|                     |  | Prince Edward Island           |
|                     |  | Saskatchewan                   |
|                     |  | Yukon                          |
|                     |  | Nunavut                        |
|                     |  | Northwest Territories          |