

## Supplementary file

### Appendice 1

#### Interview Questions

##### A) Preliminary questions:

- 1) I would like to know what your profession (and specialty) is and how long have you been practicing. In which province are you practicing?
- 2) How did you become interested in the use of AI tools and digital technologies in health?
  - a. Do you use an AI tool in your profession? If so, which one(s) and for what reasons?
  - b. How long have you been using these AI tools/applications? And how regularly do you use these tools?

##### B) Questions about AI knowledge and experience:

#### Integrity of AI-generated data

- 1) How do you think AI will impact health management (i.e., waiting times, personalized medicine, diagnostic accuracy, etc.)?
- 2) AI analyzes collected data. How would you use results generated by an AI tool?
- 3) What challenges are you anticipating:
  - For patients, regarding AI integration in health (whether with telehealth, diagnoses through AI or health applications)?
  - As a health professional, regarding your use of AI in health (whether with telehealth, AI-based diagnostics, or health applications)?
- 4) Case scenario: An AI tool you used generated a decision with which you're in disagreement.
  - a. Has this case ever happened to you? Explain.
  - b. What would you do? For example, would you communicate this disagreement to your patient by presenting both conflicting results?
  - d. Do you think this will affect your reliability as an expert? What about AI's reliability?

#### Accountability and the patient-clinician relationship

- 6) What is your understanding regarding a clinician's responsibility towards their patient? Do you think that your responsibility towards patients has changed/will change with the advent of AI tools in healthcare? Explain.
- 7) Do you think the integration of AI tools will influence your patient-healthcare professional relationship? If yes, how? If not, why not?
- 8) Statement: The practice of healthcare professionals will be greatly impacted by the integration of AI in health.
  - a. How do you think it would change medical practice?
  - b. What would be the expected main roles for health care professionals when AI tools are further integrated?
- 9) Statement: Results generated by an AI tool used in healthcare are not 100% reliable as demonstrated in the literature.
  - a. In the event of errors made by AI, what do you think would be the process to follow? And how would you handle such a situation?
  - b. Whom, do you think, would or should be held accountable?
  - c. Do you think there should be recommendations or guidelines for dealing with or guiding you in such situations? Who should implement or be involved in developing such recommendations or guidelines?

#### Free and Informed Consent

- 10) If you are using or plan to use any health AI tools to provide a diagnosis, treatment, or other:

- a. How do you think you should introduce the concept of AI use to patients to ensure their understanding as well as a free and informed consent?
- b. What is the most important information that needs to be communicated to them?

#### Trust and transparency

- 11) The results interpreted by AI could be biased because of its initial design. Do you think health care professionals could intercept these biases? If so, how?
- 12) Statement: AI literature makes a lot of references on the black box issue which is a concept that explains that results generated by AI are often unjustified or lack explanation and transparency.
  - a. How would you ensure that these results are well communicated to patients?
  - b. What is the importance of considering the "black box" issue in healthcare?

#### 13) Based on your experience and/or knowledge:

- a. Are you confident in using AI in healthcare and in its progress?
  - b. How do you think should we use AI responsibly? And what are the ethical principles that should guide an ethically acceptable and socially responsible implementation of AI tools in health?
- #### Education

- 14) Statement: With AI tools being more and more used in healthcare, it seems that professionals might need to develop new skills.
  - a. Do you think health professionals should be trained to implement and develop these skills?
  - b. What kind of trainings or approaches do you think would be most helpful?
  - c. Should these trainings become mandatory in health program curricula? Or in educational courses?