

Luigi Lepanto, M.D., M. Sc.

Directeur des services professionnels

Direction des affaires médicales et universitaires

Clinical professor

*Département de radiologie, radio-oncologie, médecine nucléaire –
Faculté de médecine*

*Département de gestion, d'évaluation, et de politique de santé
École de Santé Publique*

École de santé publique
Département de gestion,
d'évaluation et de politique de santé

Université 
de Montréal


CHUM
Centre hospitalier
de l'Université de Montréal

Artificial Intelligence – Life Sciences

The point of view of a hospital administrator

- Goals and objectives
 - What is the added value?
- The path forward
 - How do we introduce AI in the healthcare system?
- Challenges
 - What are the constraints?

Artificial Intelligence – Life Sciences

- **Goals and objectives**

What is the added value?

- Improved diagnosis
- Improved prognosis
- Improved organization and delivery of services

- Improved health outcomes

Artificial Intelligence – Life Sciences

- **The path forward**

How do we introduce AI in the healthcare system?

- Identifying opportunities → specific applications
 - *The interface between human and machine is a continuum.*
- Managing change → transformation of the professions
 - *Technology replaces tasks and thereby transforms work.*
 - *AI will not necessarily replace professions, but the professions that do not adopt AI will be replaced by those who do.*

Artificial Intelligence – Life Sciences

The point of view of a hospital administrator

- **Challenges**

What are the constraints?

- Social acceptability

- Stability, accuracy, equity, adoption, explainability
- Bias in AI