

# AI AND BI SOLUTIONS IN MEDICAL DECISION SUPPORT

*(Organised by Semmelweis University -*

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## BACKGROUND

AI based medical decision making is a quickly developing area around the globe including Europe. As more and more health-related data is collected, and due to the lack of medical capacity to analyse and interpret such data, AI is to play a stronger role in data interpretation and medical decision-making support.

## OBJECTIVES

Participants in the dialogue looked at two options for information technology:

1. Technology assessment and regulatory environment
2. Artificial intelligence and deep learning algorithms

Participants discussed what are the requirements for an AI based product or service to be used in medical practice, for unqualified services that are not registered as a product and for certified decision support services. They considered what needs to be done to ensure that products made with community resources are utilised.

The discussion touched upon what the national eHealth Network needs to do to accommodate such services and plans for improvements, noting opportunities and challenges.

## CONCLUSIONS AND MAIN ACTION POINTS

Participants agreed that the use of artificial intelligence in national screening programs could significantly increase screening efficiency and early detection of cancer. Many factors impede the widespread diffusion of the technology, which were identified during the discussion and addressed the necessary measures.

### Main Action Points:

- Socio-economic analysis of AI assisted low dose lung screen programmes for citizens over 50, by the National Institute of Pharmacy and Nutrition;
- Licensing of the associated algorithm by the National Healthcare Service;
- Introducing low dose lung cancer screening as an AI service by the National Healthcare Service.