Regulatory frameworks for artificial intelligence (AI) in health

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Rapid Exchange Forum

08/04/2024

What is AI?

'AI system' is a **machine-based system**

- designed to operate with varying levels of **autonomy**
- that may exhibit **adaptiveness** after deployment
- that **infers how to generate outputs** such as predictions, content, recommendations, or decisions that can influence physical or virtual environments

Definition from EU AI Act

sciensano

AI in population health

Detecting suicidality on Twitter

Bridianne O'Dea [a] ✉ , Stephen Wan [b] ✉ , Philip J. Batterham [c] ✉ , Alison L. Calear [c] ✉ , Cecile Paris [b] ✉ , Helen Christensen [a] ✉
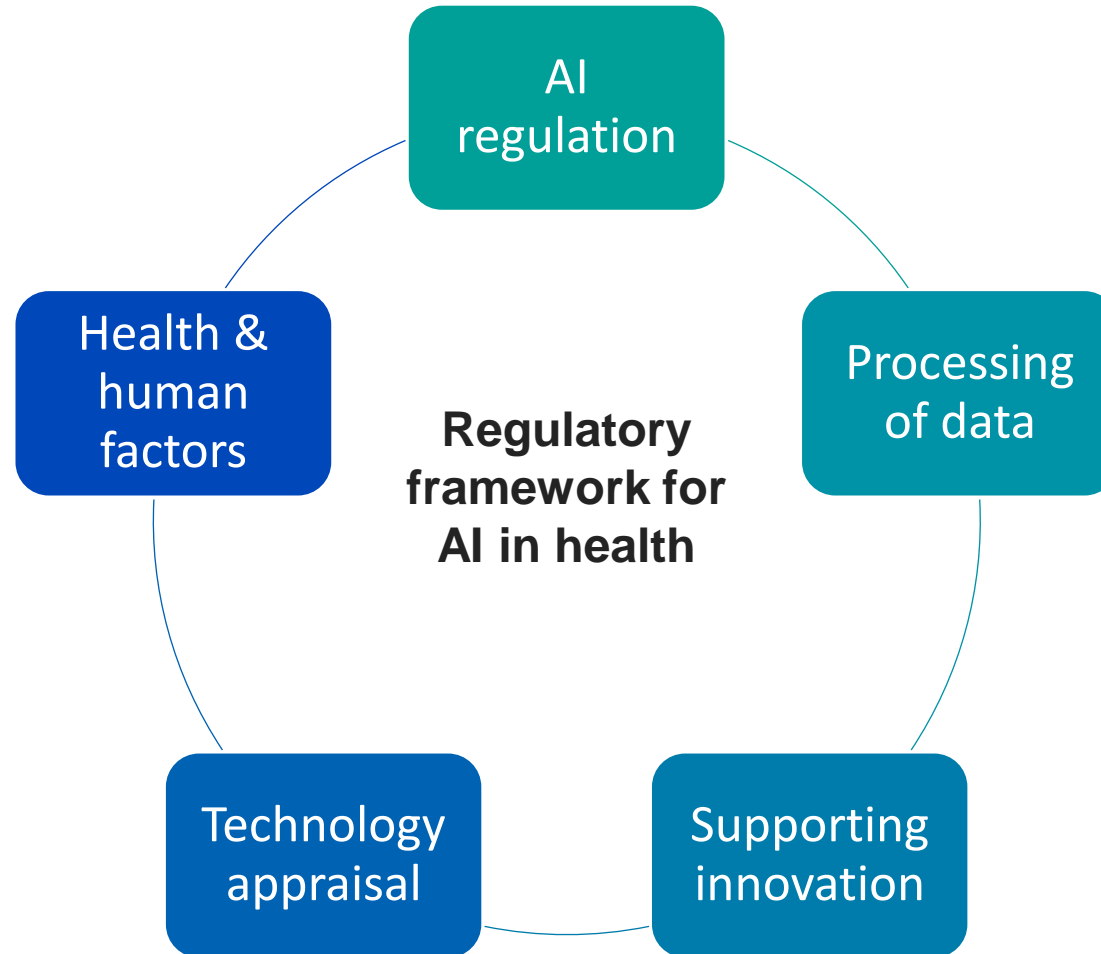
Large language models to identify social determinants of health in electronic health records

Marco Guevara [#] [1] [2], Shan Chen [#] [1] [2], Spencer Thomas [1] [2] [3], Tafadzwa L Chaunzwa [1] [2], Idalid Franco [2], Benjamin H Kann [1] [2], Shalini Moningi [2], Jack M Qian [1] [2], Madeleine Goldstein [4], Susan Harper [4], Hugo J W L Aerts [1] [2] [5], Paul J Catalano [6], Guergana K Savova [3], Raymond H Mak [1] [2], Danielle S Bitterman [7] [8]

Artificial Intelligence–Based Chatbots for Promoting Health Behavioral Changes: Systematic Review

Abhishek Aggarwal [1,2] iD; Cheuk Chi Tam [1,2] iD; Dezhi Wu [3,4] iD; Xiaoming Li [1,2,3] iD; Shan Qiao [1,2,3] iD

Regulation of AI

Webinar May 13: AI regulation in health (EU public health week)

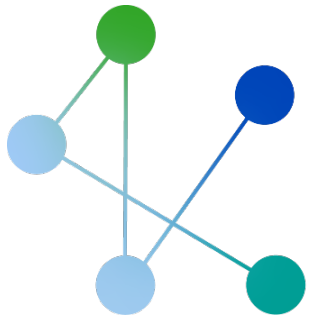| Time	Topic	Speaker
15:00	Welcome	Nienke Schutte *Sciensano* *EUPHA PHMR*
15:05	Examples of application of AI in population health	Stefan Buttigieg *Ministry of Health Malta* *EUPHA DH*
15:10	Policy mapping of AI policies in health	Jelena Schmidt *University of Maastricht*
15:20	Policy discussion with expert panel: • Barbera Prainsack - *University of Vienna* • Milena Pavlova - *University of Maastricht* • Johan Ordish - *Roche Diagnostics/University of Birmingham*	Moderated by: Robin van Kessel *London School of Economic and Political Science* *University of Maastricht*
15:55	Wrap up and closing	Nienke Schutte *Sciensano* *EUPHA PHMR*

Register here

AI in population health

Topic: Regulatory frameworks for artificial intelligence (AI) in health

- Is **AI being used** in your institute for population health purposes?
- Is there any **legislation** available in your country that specifically relate to artificial intelligence in health care settings and population health?
- (how) does this regulatory framework **benefit or limit** the use of AI in population health (research and management)?
- (how) does this regulatory framework **safeguard** the health of consumers, citizens, and/or patients?

PHIRI
Population Health Information Research Infrastructure

Thank you!

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