Artificial Intelligence in Personalised Medicine



Context • The healthcare systems, including the EU are understaffed, underfunded, and underprepared (OECD, 2023).

• Al could help the healthcare system work better and enable personalised medicine.

- Adoption is hindered by high initial costs and uncertainty of returns in long-term investment.
- Possibility of **health anxiety**.
- Liability gaps make current legislation unfit to accommodate AI.
- Opacity (black box effect) poses issues of privacy and responsibility.



- Automation can improve administrative efficiency, freeing up time, increasing patient throughput, and reducing staff burnout.
- By enhancing diagnostic accuracy, clinical errors are reduced.
- Enhancing diagnosis treatment planning, risk factor identification, saving time and reducing cost in the

but computation is hidden.

Explainable AI, build to

mitigate this, performs

- Biased data leads to biased outcomes, including prima-facie 'innocent' data (i.e. postal code).
- process.
- Optimising analysis of disease patterns and The black box effect input drug & output are measurable, response.

badly.

The Future

Emerging Regulation AI Law GDPR



References:

OECD. (2023). Ready for the Next Crisis? Investing in Health System Resilience. OECD. https://doi.org/10.1787/1e53cf80-en