Summary of the previous meeting on AI

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ESC
European Society of Cardiology

Overall objective of ESC CRT on AI

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Cardiovascular Round Table

Secure a trustworthy integration of AI into clinical cardiology practice

- Ensure that AI tools are reliable, evidence-based, and contribute to improved patient outcomes;

- Establish a comprehensive and actionable roadmap – in collaboration between the medical industry, regulators, notified bodies, professional societies, policy makers, payers and patient representatives.

Step 1: Setting up the stage in Zürich

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Discussions over the course of the two days:

- Challenges
- Opportunities
- Questions
- Answers
- Actions

Summary of main findings

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I. DATA

- Computable phenotypes and curation of the data and phenotyping algorithms: critical to build an essential and high-quality foundation for subsequent analyses.
- Data collection: vital to develop and validate AI tools, but there are many challenges in terms of collecting data across countries, including heterogeneity of data collection systems and practices, and differences in diagnostics.

II. EVIDENCE

- Randomized control trials: becoming more and more important to test AI solutions. Retrospective data sets, used in the past by many manufacturers, will no longer be acceptable.

III. EDUCATION

- Patient attitudes towards AI: hugely variable - education will be of paramount importance, to increase digital literacy, and trust.

IV. REGULATIONS

- Software as a medical device: becoming a central issue for notified bodies and developers.
- Clinical decision support systems (CDSS): the most impactful application of AI, but they are complex, sophisticated technologies and represent significant regulatory and implementation challenges.

Step 2: Moving towards an action plan

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Agenda overview and expected outcomes → Guy Spigelman
(AWS & meeting facilitator) and Folkert Asselbergs