



CDDF WORKSHOP

27 - 28 September 2021

ONLINE WORKSHOP

*Digital Tools and Artificial
Intelligence in Oncology Drug
Development*



Digital tools and AI in Oncology drug development

Hans Scheurer
Myeloma Patients Europe / WECAN





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Disclaimer

2020 – now:

- President of the board Myeloma Patients Europe
- MPE CAB's (=Community Advisory Board) with Pfizer, GSK, Roche, BMS, Janssen.
- Advisory board Takeda, Janssen
- Speaker in-company meeting Sanofi
- Blood cancer awareness month: video interview on MM diagnosis, Janssen
- Alternate member PCWP EMA
- Voluntary patient advocacy work





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Session: Digital tools supporting innovative patient care

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Patient perspective

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CART

Chimeric Antigen Receptor





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CART

Classification and Regression Tree





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ID3





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ID3

Iterative Dichotomiser 3





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Patient perspective - three aspects:

1. What tool do you choose and why
2. Can we trust the technology?
3. Patient centricity, how to get there





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Reported benefits*:

- They 'promote' patient centricity
- More direct communication with HCP's
- Closer involvement in the decision-making process
- Positive impact on treatment-adherence
- Information from clinical visits always available
- Less recourse to generic Web consultation without scientific content

*Aapro, M, P. Bossi, A Dasari, L. Fallowfield, P Gascón, M. Geller, K. Jordan, J. Kim, K. Martin, S. Porzig (2020), Digital health for optimal supportive care in oncology: benefits, limits and future perspectives. Supportive Care in Cancer (2020) 28:4589-4612





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Reported limitations*:

- Difficulty in dealing with technology
- Need for specific education and training
- Time-consuming
- Uncomfortable asking clinicians for permission to record clinical visits
- Depersonalisation

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Sharing medical data

- Data are about the patient, so who owns that?
- Sharing always needs patient consent
- A well informed patient makes the visit more efficient, improves the quality of the interaction with the clinician and makes shared decision making more meaningful.





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Developing digital tools for patient use:

- User-friendly, intuitive and engaging
- Relevant information for supportive care as its principal aim
- Use language that the patient can understand
- Intention to improve communication with the HCP and about medical results (not to replace the practitioner)
- Digital environment meets regulatory requirements (data privacy, confidentiality)
- Info/data up to date and in line with medical science/evidence-based practice.





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Trust in technology

- Distance between the professionals and the users: Digital tools are black boxes
- For trust, it takes absolute transparency on what the algorithm does and what it does not include, what the tool provides and if data are collected for what reasons.
- Generations differ in getting used to new technology
- Field of technology is far ahead of the field of regulation





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Patient centricity: It takes two to tango

- **AI professionals**: Get in touch with the patient group, involve them in the development of digital solutions
- **Patient groups**: Invest in understanding the digital solutions in healthcare and be part of the debate and developments





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- Thanks for listening, open for questions.

