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Quality of Life, survivorship and palliative care: patient empowerment and support



**5 years Cancer Mission:
Stronger Through Connection**

BRUSSELS
29 SEPTEMBER – 01 OCTOBER



Eugenio Gaeta

Biomedical Engineering researcher at
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late aya

Redefining AYA Cancer Survivorship Care

Session B — Quality of Life & Survivorship
Holistic quality care models and patient engagement



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Understanding and addressing LATE-effects of treatment of adolescent and young adult (AYA) cancer survivors with AI-based digital phenotyping and non-invasive holistic approach

OBJECTIVE — Combine AI and digital phenotyping to anticipate late effects, detect quality-of-life decline, and trigger personalised preventive support for AYA cancer survivors.

TWO-STAGE STUDY — Stage I builds AI models linking digital biomarkers (smartwatch, smartphone, patient-reported outcomes) to QoL trajectories; Stage II deploys and validates co-created, personalised interventions via a chatbot and supports patient monitoring visualization through personalized dashboard.

SCALE — 19 partners, 6 EU countries + UK/CH; 7 hospitals in 3 countries; 450 AYA survivors; 18-month follow-up. €6.24M · 60 months (2025-2030) · GA 101214326.

WHERE WE ARE NOW — Digital platform in final beta testing ahead of the Stage I trial; Stage I clinical protocol currently under review by the ethics committees.

EXPECTED IMPACT — +20% QoL improvement target, earlier detection of late-effect risk and fewer avoidable hospital visits; LATE-AYA lead the 1st year of QoL-AYA Cluster's Data Management Working Group (EHDS/EOSC/UNCAN.eu-aligned).

REDEFINING SURVIVORSHIP CARE FOR ADOLESCENTS AND YOUNG ADULTS (AYA)



No clear AYA survivorship roadmap



Hidden psychosocial burden



Late effects detected too late



Fragmented long-term care

Empowered AYA life after cancer

LATE-AYA uses digital phenotyping and AI to anticipate late effects, detect quality-of-life deterioration, and enable timely personalised interventions





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Joanna Mattson

Associate Professor of Clinical Oncology
at the University of Helsinki



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ONCOVALUE - Generating real world effectiveness data to promote value-based cancer care

Johanna Mattson
30 SEPTEMBER

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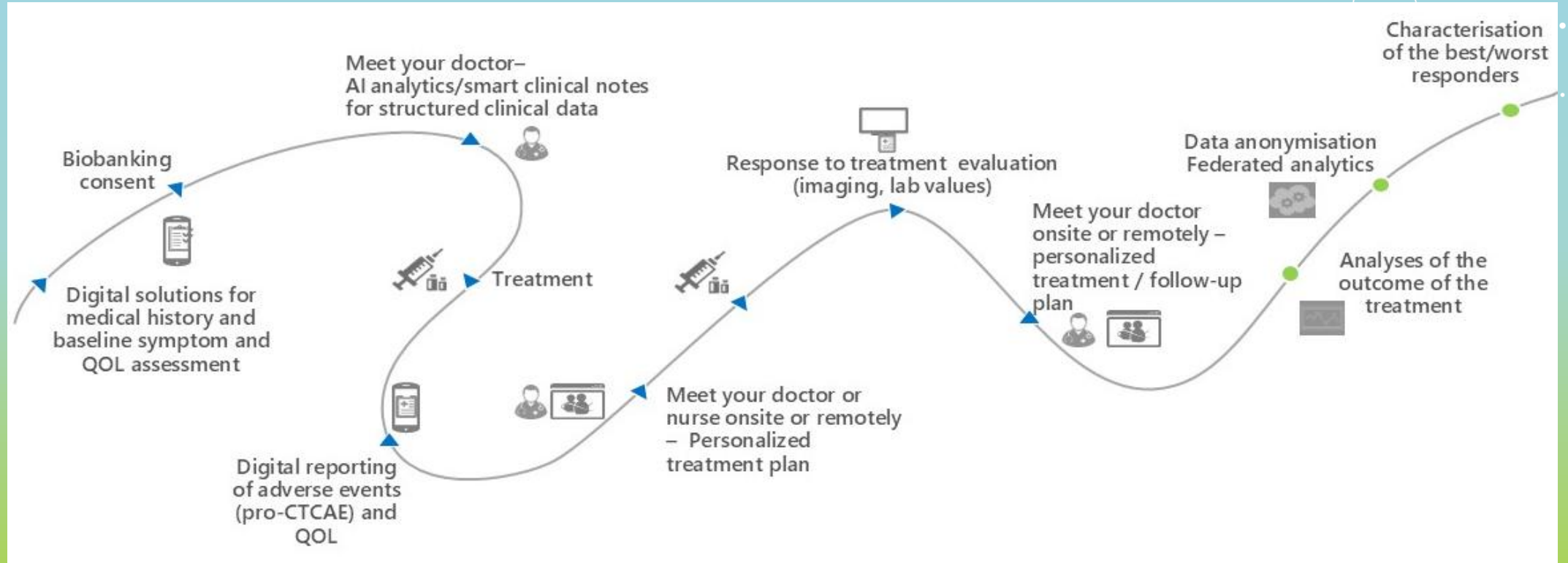
ONCOVALUE



- A. Trained cancer hospitals to collect, harmonize and analyze high-quality RWD in real-time**
 - *Organize and maintain data collection as part of standard clinical routines*
 - Harmonize hospital data (clinical, QoL and costs data) to enable federated analytics
 - Take care of the quality and transparency of these processes
- B. Guided regulatory and HTA-bodies to adopt RWD-driven methodologies in their decision-making on cost-effectiveness of novel cancer therapies**
- C. Developed and tested next generation AI-tools for effective use of unstructured data**

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ONCOVALUE pathway



***The hospitals need to invest in the infrastructure:
Digital Solutions, Data Lakes, Data Analysts, AI Tools***



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www.oncovalue.org

<https://www.linkedin.com/company/oncovalue/>



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Dr Amanda Drury

Professor in Nursing at Trinity College Dublin and member of the EU Cancer Mission Board



Roland Eils

Linked to EU-CIP and the European Cancer Patient Digital Centre



Inês Vaz-Luis

Expert in cancer survivorship and quality of life; linked to INTERVAL, WeSHARE, CANTO, and coordinates the EU-funded PATH-FOR-YOUNG project



Alexia F. Bertuzzi

Medical Oncologist, Leader of AYA multidisciplinary program, survivorship care expert, presenting the perspective of THCS partnership and Jane-2 Survivorship Network of Expertise

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Closing remarks



Maria Pilar Aguar Fernández

Director for People: Health and Society at the European Commission's Directorate-General for Research and Innovation.



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Thank you!



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