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Predicting and Preventing Late Effects in Adolescent and Young Adult (AYA) Cancer Survivors

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5 years Cancer Mission:
Stronger Through Connection

BRUSSELS
29 SEPTEMBER – 01 OCTOBER

PREDICT AYA

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PREDICT AYA



Improving the understanding and management of late-effects in adolescents and young adults (AYA) with cancer (HORIZON-MISS-2024-CANCER-01-05)

5 years (June 2025 – May 2030)

PredictAYA is coordinated by **Karolinska Institutet** and brings together 1**8 partners** from **10 countries.**

ULB · Karolinska Institutet · Università degli Studi Firenze · University of Tartu · Inserm · Fondazione IRCCS Istituto Nazionale dei Tumori · Sistema Socio Sanitario Regione Lombardia · The University of Edinburgh · European Cancer Organisation · civitta · Medical University Innsbruck · Universität Bern · Netherlands Cancer Institute Antoni van Leeuwenhoek · Linköping University · University of Leeds · Ospedale Policlinico San Martino · Heidelberg University Hospital · Karolinska University Hospital

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EU Cancer Mission Cluster “Quality of Life (AYA)”



Six projects, one mission

Stronger Together

PanCare 4 AYA

MAYA

lato aya

e·QuoL
Equality · Quality of Life · Survivorship

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txr transcend-xr

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Bridging the research gap - Together

- **Adolescent and young adult (AYA) cancer survivors** are vulnerable to treatment-related physical and psychosocial late effects
- **Long-term consequences** on key developmental life phases and quality of life
- **Limited evidence** on how to accurately predict, prevent and manage late effects in AYAs unmet needs
- **Small cohorts not sufficient to assess rare events**



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PredictAYA What will we achieve?

- Map incidence, severity and impact of late effects among AYA cancer survivors across Europe
- Build datasets from AYA patient cohorts to develop models for late effects prediction following cancer
- Develop tools for future individualised screening and fertility counselling in order to achieve better quality of care and quality of life

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INTERDISCIPLINARY PATH TO SUCCESS



Epidemiological research using **population-based registers and genomic biobanks**



Clinical outcomes analyses in **AYA patient cohorts** with treatment data and patient experiences



Development of **genetic models for prediction of late effects** after cancer treatment



In vitro models for identifying pathways underlying development of organ toxicity

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PredictAYA – Main outcomes

Improved clinical practice

- Validated prediction models developed to enable personalised care

Better awareness and education

- Mapping and understanding reproductive health risks, fertility preservation and late effects management in order to improve best practice, educate and spread awareness

Policy influence

- Writing and updating national and EU-level cancer care guidelines

Enhanced cross-border collaboration

- Networking, collaborating and learning together with multiple stakeholders

Improved quality of life

- Mapping QoL and health outcomes across Europe for better management of late effects

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THANK YOU

PredictAYA

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