Cancer Care BEACON: Reducing disparities across the European Union

OECI 46 – Oncology Days 2024



CANCER CARE BEACON

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Reducing Disparities across the European Union



Cancer Care Disparities

Cancer is the **second most prevalent cause of death** after cardiovascular disease in Europe.

In spite of this, **considerable disparities exist** between the quality of cancer care and clinical outcomes for cancer patients across European communities, hospitals, regions, and countries.

For instance, cancer patients' survival differences go as high as 25% between different member states for the same disease and stage of illness.

Inequalities in cancer screening vary by region, with significantly lower morbidity and mortality in Western Europe, where prevention programs and screening facilities are better developed, compared to Central and Eastern Europe, with underdeveloped screening infrastructure and procedures

Despite significant advances in cancer therapy, there is still a long road ahead to improve disparities in

- cancer screening
- diagnosis
- treatment
- quality of life
- management of survivorship
- palliative care



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Reducing Disparities across the European Union

Cancer Care Disparities

Among the challenges encountered within and across Europe, the most common disparities are observed in

- accessing information,
- spiraling costs of healthcare,
- accessing optimal treatment options with complete treatment modalities and optimal outcomes,
- ensuring the **best Quality of Life** for patients during and after the treatment process,
- integrating cancer research and innovative cancer care,
- accessing networked, multidisciplinary cancer care teams.

Also, outcomes for patients with rare cancers are even worse than for patients with more common cancers mainly because of

(1) the delays in obtaining accurate diagnoses,

(2) inadequate treatments,

(3) restricted opportunities for patients to participate in clinical trials.

For such cases, there are substantial regional differences across EU countries in survival from rare cancers, both for which there are no effective treatments and for those ones which respond well to treatment.

.....This scenario suggests variations in the quality and availability of diagnosis and follow-up and differences in the use of effective treatment protocols





EU4H-2021-PJ-11



Aim

 The 'EU Cancer Treatment Capacity and Capability Mapping' action aims to map and share the different capabilities and expertise available across the Union.

Activities

 The action will support the identification of the different capabilities and expertise available across the Union, and build the foundation to regularly identify gaps and needs to be addressed at national and regional levels across the Union. At the same time, the EU Network of Comprehensive Cancer Centres will be updated on cancer care innovation as well as on cancer workforce training.

EU4H-2021-PJ-11: Action grants for 'EU Cancer Treatment Capacity and Capability Mapping' project - Network of Comprehensive Cancer Centres



Background

- "The European Guide on Quality Improvement in Comprehensive Cancer Control recommends as a priority the establishment of Comprehensive Cancer Care Networks [...] in all Member States as well as the networking of these centres at Union level."
- "Establishment by 2025 of an EU Network linking recognised National Comprehensive Cancer Centres [...] to facilitate the uptake of quality-assured diagnosis and treatment, [...], including training, research and clinical trials across the Union"

The OECI Network









Objectives - Endpoints

Specific Objectives

- **OB1: Mapping** of capacity and capabilities across cancer centers in the European Union
- **OB2:** Creating and updating a **data repository** to **assist researchers** in **data access** and **sharing** and other **stakeholders** in gaining **useful information**
- OB3: Creating decision support tools that will assist our four stakeholders: patients, providers, researchers and policymakers

Three main end products:

- (a) proposed **roadmap to scale** current **capacity and capabilities** in order to address existing cancer disparities
- (b) a plethora of reports, including both static documents and **interactive Web applications**, aimed at **supporting decision-making** for our four stakeholders
- (c) a **sustainability plan** on how we intend to directly work with our partners to **keep the project alive** and active beyond the two-year duration of the funding by EU4H.



Focus Endpoint

Online informative decision support tool

To help:

Patients in finding the nearest oncological centre and experiencing easier access to comprehensive cancer care

Healthcare providers in **sharing resources**, **expertise** and **information** both with colleagues and patients

- Researchers in **sharing** and having **access** to **data**
- Policy makers in aligning funding allocation with patients' priorities





Developing the Decision Support Tool: The Beacon Wiki





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Cancer Beacon

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Cancer Centers

This is a list of countries with cancer centers and other organizations that are part of Cancer Beacon.

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Developing the Decision Support Tool: The Beacon Wiki

Italy [edit | edit source] Centro di Riferimento Oncologico di Aviano IRCCS Ospedale Policlinico San Martino European Institute of Oncology Fondazione IRCCS- Istituto Nazionale dei Tumori di Milano Istituto Oncologico Veneto IRCCS-IOV Humanitas Research Hospital Istituto Nazionale Tumori -IRCCS 'Fondazione G.Pascale' Azienda Unità Sanitaria Locale di Reggio Emilia - IRCCS Istituto in Tecnologie Avanzate e Modelli Assistenziali in Oncologia Istituto Tumori Giovanni Paolo II, Istituto di Ricovero e Cura a Carattere Scientifico IRCCS Centro di Riferimento Oncologico della Basilicata Ospedale San Raffaele Candiolo Cancer Institute Mediterranean Institute of Oncology Sacro Cuore - Don Calabria Hospital IRCCS - Romagna Institute for the Study of Cancer 'Dino Amadori' Fondazione Policlinico Universitario Agostino Gemelli IRCCS Istituto Nazionale Tumori Regina Elena & Istituto Dermatologico San Gallicano Fondazione I.R.C.C.S. Policlinico San Matteo

Latvia [edit]edit source] Riga Eastern Clinical University Hospital

Lithuania [edit]edit source] National Cancer Institute

Countries and Cancer Centers [edit|edit source]

List of Countries and Cancer Centers included in Cancer Beacon

Resources Integration [edit | edit | edit | source]

Tags Data Dictionary [edit | edit | edit | source]

Disparity maps [edit]edit source]

Glossary [edit | edit source]

Welcome to the BEACON Wiki [edit | edit | edit source]

The Cancer Care BEACON project, funded by the European Commission, is a groundbreaking initiative aimed at enhancing cancer care across the European Union by mapping cancer centers' capacities and compiling oncology datasets, among other cancer-related resources, and present them in an interactive, accessible application for all stakeholders. Designed to support patients, researchers, policymakers, and healthcare providers, the BEACON Decision-Support Application offers a comprehensive platform for informed decision-making and facilitates transatlantic collaborations and clinical trials. This concise resource empowers all stakeholders in the cancer care continuum with essential information to improve care and address disparities within the EU.

The Cancer Care Beacon Wiki is the collaborative platform where all information the BEACON project collects is stored, and it can be viewed and edited by all stakeholders. Through community effort, the Wiki aims to provide the highest-quality and accurate information about cancer care possible, and empower stakeholders to be a part of cancer care advances.

Why contribute to the BEACON Wiki? [edit | edit source]

Joining and contributing to the BEACON wiki offers a special chance for patients and hospitals to truly make a difference in cancer care.

Patients can help others by sharing their own stories and information, building a community where everyone has access to the knowledge they need.

Hospitals and providers can show off what they do best, making sure everyone knows about the great care they provide and working together to make cancer care better for everyone.

Researchers and policymakers also play a crucial role, by contributing cutting-edge findings and shaping supportive policies, they help

Some crucial results: Access and Provision of cancer care

Main themes emerged from focus groups discussions (Italy, Croatia and Slovakia)

Waiting lists and bureaucracy

Long waiting times Corruption, personal connections Bureaucratic hurdles

> Psycho-oncological support Neglect of mental health

Stigma and prejudice

Lack of awareness and education

Geographical and regional disparities Physical and spatial limitations Insufficient training, resources and instrumentations Underserved rural areas

Shared decision-making No attentiveness and support from doctors

No trained and informed GPs

Neglect of side effects



The cancer financial burden Travel costs No treatment in Europe without private insurance Healthcare privatisation

Information needs and use of Internet Unclear, unaccesible and unhelpful information or reliable sources

Mistrust in online sources or professionals

Disparities in Psycho-oncological support

Team of psychologists an researchers (IEO, UNIPA)



Focus on **disparities in Psycho-oncological care**:

. **Cancer patients** have a **higher prevalence** of **mental disorders** compared to the general population across various tumor types

. Emotional distress and psychiatric morbidity in cancer patients are linked to reduced quality of life, impaired social relationships, longer rehabilitation time, lower treatment compliance, and shorter survival

. Providing **psycho-oncological support** is **crucial**, as it effectively reduces anxiety and depressive symptoms, **improves treatment adherence**, and **enhances** the **quality of life** for cancer patients, survivors, and their families

. **Disparities persist** between European countries and within regions, with barriers hindering cancer patients and their families from accessing vital psycho-oncological support.

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ESMO Clinical Guidelines

Assessment:

- Regular screening at diagnosis, during treatment, and at follow-up.
- Use of standardized tools like HADS or PHQ-9.

Depression Treatment:

- Psychotherapy (psychoeducation, CBT, supportive-expressive, MBT).
- Medications (ADs).
- Combination therapy for optimal outcomes.

Anxiety Treatment:

- Psychotherapy (MBT, CBT, supportive-expressive).
- Medications (ADs, Anxiolytics)
- Relaxation techniques (deep breathing, progressive muscle relaxation).

SPECIAL ARTICLE

Anxiety and depression in adult cancer patients: ESMO Clinical Practice Guideline †

L. Grassi¹, R. Caruso¹, M. B. Riba^{2,3}, M. Lloyd-Williams^{6,5}, D. Kissane⁶, G. Rodin⁷, D. McFarland^{8,9}, R. Campos-Ródenas¹⁰, R. Zachariae^{11,12}, D. Santini¹³ & C. I. Ripamonti¹⁴, on behalf of the ESMO Guidelines Committee^{*}

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Available online 14 March 2023

Key words: anxiety, depression, cancer, oncology, psychiatry, psycho-oncology





Some crucial results: Disparities in access, use and provision of psycho-oncological support

Disparities in psycho-oncological support



only 37% of European countries allocate a specific budget for POS

Knowledge and Awareness

Lack of understanding about the impact of POS on health and quality of life of cancer patients and their families

Cancer Type

Breast cancer patients tend to receive more POS than prostate (possibly related to gender)

Geographical disparities and ruralness of residence

Eastern and Southern European countries lower-quality cancer care compared to Nordic



Differences in screening measurements, national quality standards, policies, institutional capacities, training programs and specialised staff availability

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Socio-Demographic factors

Older, males, lower education and income receive less POS

Coppini, V., Ferraris, G., Monzani, D., Grasso, R., & Pravettoni, G. (2023). Disparities and barriers in the assessment of psychological distress, access to and use of psycho-oncological support in Europe: current perspectives. *Frontiers in psychology*, *14*, 1252843. <u>https://doi.org/10.3389/fpsyg.2023.1252843</u>

Results informing the Decision support tool



| Waiting lists and bureaucracy | Geographical and regional disparities | The cancer financial burden | |
|--|---|---|--|
| Clear information on procedure, rights and timing | Mitigating regional disparities through information dissemination on nearby healthcare facilities and services (e.g., Medici nella tua città) | Data to inform better resource allocation and funding for financial support and its awareness | |
| | Geolocalisation of nearby centres | | |
| Psycho-oncological support | Shared decision-making | Information needs and use of Internet | |
| Providing information on Psycho- oncology services, where to find them and how to access them | Provide training on communication | Information on rights, hospitals/ centres, exams/ treatments | |
| | Empathy, communication skills, time | Updated information on therapeutic procedures | |
| | | List of reliable sources | |



Psycho-Oncology in Beacon



Log in

Beacon search

९ "psycho-oncology"

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European Institute of Oncology

Type of information: Surgery Prevention And Oncological Genetics Oncohematology Program **Psycho-oncology** Radiology Interventional Radiology Breast Radiology Radiotherapy Second **Technical details:** 22951KB (368 words) - 12:57, 12 May 2024

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Type of information: Go back to Cancer Centers list. **Technical details:** 7949KB (6 words) - 12:52, 02 May 2024

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Thank you! Questions?





The BEACON Consortium



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