Champs

A Collective Intelligent Platform to Support Cancer Champions

## Welcome to the sixth issue of the LifeChamps Newsletter!

We are pleased to announce the publication of the sixth issue of the LifeChamps newsletter.

and QoL to older cancer patients, their

developments in the fields of Big Data,

Furthermore, LifeChamps' objective is

to disrupt Big Data modelling, analysis,

and aggregation under a novel context-

analytics framework towards delivering

three different types of cancer (breast

cancer, prostate cancer, and melanoma),

aware data-intensive and large-scale

person-centred care solutions for

most prevalent in the older age.

Data Analytics, and Artificial Intelligence.

LifeChamps is a 4-year Research and Innovation Action (RIA), running from 2019 to 2023, funded under Horizon 2020. Its focus is on delivering a smart, personalised and secure platform that will monitor health outcomes and address cancers' comorbidities of older cancer survivors by preventing long-term side effects and improving Quality of Life (QoL).

The LifeChamps project aims to support and deliver the highest care

Vision statement:

We believe in a society where ageist stereotypes and discrimination against older adults will be eliminated from the clinical practice.

Contents

LifeChamps Project Advances: Assessing the Impact on Older Cancer Patients

The LifeChamps project has made significant progress in improving the quality of life (QoL) for older cancer patients. The recently published second whitepaper details the pilot sites, study design, and data collection for this innovative project. As the consortium partners gear up for the small-scale end-user study, let's take a closer look at the highlights of the whitepaper and what it means for the future of cancer care.

Pilot Sites and Study Design: The LifeChamps project focuses on the implementation of a digital supportive platform designed to empower older cancer survivors towards better self-management and healthcare professionals to provide more patient-centered, integrated care and follow-up to their patients. The pilot studies are conducted in different healthcare settings, including Greece, Italy, the Netherlands, and Spain. Each site follows the same intervention protocol, with slight adaptations to local contexts.

Common Data Collection: An essential part of the project is the collection of participant demographics, recruitment rates, and retention rates. This data, along with comprehensive log files, will be used to assess the effectiveness of the intervention. Key performance indicators will include patient-reported outcome measures (PROMs) and patient-reported endpoints (PROs) collected during pre/post-intervention stages.

Usability and Acceptability of the Mobile Application: An enduser study will be conducted to evaluate the usability and acceptability of the LifeChamps platform. This will help the consortium partners to fine-tune the LifeChamps solution

through iterative sprints, incorporating feedback from endusers. The evaluation will focus on the user interface, design information flow, and the overall impact on QoL.

Effectiveness of LifeChamps Intervention: A quantitative and qualitative analysis of the LifeChamps intervention on person and care outcomes of end-users will also take place. The quantitative analysis will utilize endpoint PROs to measure QoL and frailty, while the qualitative analysis will assess the overall effectiveness of the LifeChamps solution and the quality-of-care management through online questionnaires and optional interviews.

Cost-Effectiveness Analysis: The cost-effectiveness of the LifeChamps intervention will be analyzed across all pilot sites. The study will compare the incremental cost per quality-adjusted life year (QALY) using QoL measures from instruments such as EQ-5D-5L, FACT-G7, and QLU-C10D. Direct and indirect intervention costs will be considered, providing valuable insights into the financial viability of the LifeChamps solution.

The LifeChamps project is poised to make a significant impact on the lives of older cancer patients. As the consortium partners continue to refine the solution and assess its usability, acceptability, effectiveness, and costeffectiveness, we can expect to see exciting developments in the realm of personalized cancer care. Stay tuned for more updates on the LifeChamps project as we move closer to revolutionizing cancer care for older patients.

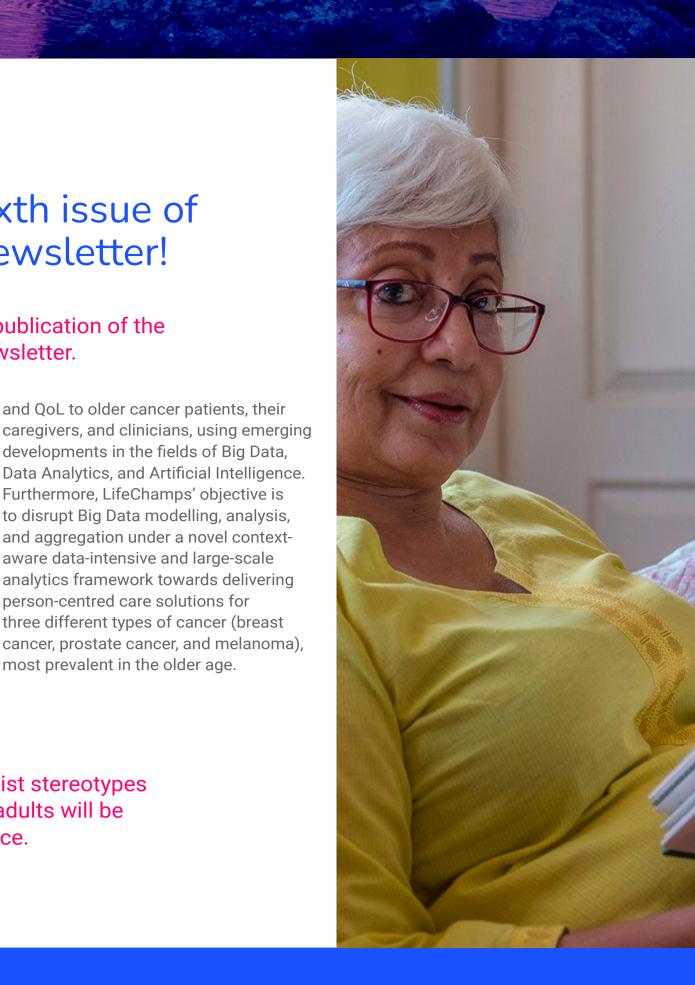
## **Quality of Health Apps:** Key Factors in Oncology

As digital technology continues to evolve, an increasing number of health apps are becoming available to assist patients in managing their conditions, including those with cancer. However, not all health apps are created equal. In this article, we will explore the importance of quality in health apps, with a particular focus on oncology, and provide insights into the essential features that make an app effective for cancer patients.

- 1. Relevance and Accuracy of Information: An oncology app must provide relevant, accurate, and up-todate information to support cancer patients in understanding their condition and treatment options. It is crucial to ensure that the content is evidence-based and draws from reliable sources, such as reputable medical organizations, research institutions, and peer-reviewed studies.
- 2. Personalization and Customization: Cancer is a complex and diverse disease, with each patient facing unique challenges and requiring individualized care. A high-quality oncology app should allow users to personalize and customize their experience based on their specific diagnosis, treatment plan, and other factors, such as age, medical history, and lifestyle.
- 3. Data Privacy and Security: Health apps, especially those designed for cancer patients, handle sensitive personal and medical information. It is essential for these apps to have robust privacy policies and security measures in place to protect users' data from unauthorized access, misuse, or disclosure.
- 4. User-Friendly Interface and Navigation: An oncology app should be easy to use and navigate, even for patients who may not be tech-savvy. A welldesigned user interface, along with clear instructions and intuitive navigation, can help ensure that patients can access the information and features they need without unnecessary frustration or confusion.
- 5. Support and Communication Features: A cancer diagnosis can be overwhelming, and patients often require emotional support and guidance from their healthcare providers, caregivers, and peers. A quality oncology app should include features that facilitate communication between patients and their care team, as well as provide access to support groups, forums, or other resources where they can connect with fellow cancer patients.
- 6. Integration with Electronic Health Records (EHR): An oncology app that can seamlessly integrate with a patient's EHR can greatly enhance the care management process. This integration allows healthcare providers to access up-to-date information about the patient's condition, treatment plan, and progress, which can lead to more informed decision-
- 7. Tracking and Monitoring Features: Effective oncology apps should offer features that allow patients to track and monitor their symptoms, medication adherence, and other health-related factors. This data can help patients and their care team identify patterns, make adjustments to treatment plans, and ultimately improve the patient's quality of life.

making and better overall care.

As the number of health apps continues to grow, it is crucial to recognize the importance of quality and the factors that make an oncology app effective for cancer patients. By focusing on accurate information, personalization, data privacy, user-friendliness, support, EHR integration, and tracking features, we can ensure that oncology apps deliver the best possible support and care management for cancer patients.



# Exalens: Championing Data Management, Privacy, and Impact in the LifeChamps H2020 Project

### EXALENS

Exalens is a significant contributor to the LifeChamps H2020 project, a European venture aimed at improving cancer treatment and care management through data-driven innovation. Exalens leads various essential tasks within the project, focusing on data management, adherence to legal and ethical standards, secure data storage, and

effective dissemination of project outcomes. This article will explore Exalens' role in the LifeChamps project and emphasize its significance in accomplishing the project's goals. In the LifeChamps project, Exalens spearheads the coordination

of the Data Management Plan (DMP), ensuring alignment with the Guidelines on Data Management in H2020 for data collection, processing, sharing, and preservation. By delivering an early version of the DMP at month M6 and updating it by the end of the project, Exalens guarantees that the data management life cycle remains efficient and compliant throughout the project's duration.

Collaborating with other partners, Exalens ensures LifeChamps' innovations comply with EU-wide legal, ethical, and privacy principles, including the General Data Protection Regulation (GDPR). By creating guidelines based on the LifeChamps architecture, Exalens guarantees that the project's datadriven solutions adhere to relevant regulations.

Exalens assumes responsibility for developing a data warehouse management infrastructure consisting of relational database components and NoSQL data management components. By focusing on data retrieval algorithms and data sharing and protection methods, Exalens contributes to the establishment of the Health Data Intelligence Cloud Service (HICS).

In disseminating and communicating the LifeChamps project's results, Exalens plays a crucial role. The company leads the development of the project's graphic identity and communication tools, including the web platform, social media channels, and various collateral materials. Exalens also identifies relevant publication channels for broader dissemination of research findings and devises tailored messaging strategies for different stakeholders.

Exalens serves as a driving force behind the LifeChamps H2020 project ensuring data management, privacy, and legal compliance are maintained throughout the project's life cycle. By directing the development of secure data storage solutions and devising effective communication and dissemination approaches, Exalens aids in maximizing the impact of the LifeChamps project within the healthcare community and beyond.

### Memorandum Of Understanding (MoU) Signed Between LifeChamps & StandICT.Eu 2023.

StandICT.Eu 2023 has two key axes firstly, it offers operational grants to 400+ **European ICT standardisation experts** in a series of 10 Open calls providing a total of 3M€ of funding. Secondly, it operates the European Observatory for ICT Standardisation (EUOS)that is an interactive online ecosystem including an up-to-date standards repository as well as working groups sharing insights about ongoing standardization efforts across different initiatives. The EUOS publishes Standardization Landscape Reports offering a bird-eye view on the standards in specific ICT sectors (namely, IoT, Smart Cities, **Digital Twins, Trusted Information** and AI). StandICT.eu 2023 focuses on horizontal and vertical ICT fields as defined in the Rolling Plan for ICT Standardisation, one of the

The LifeChamps H2020 Project is working towards shifting the discrimination barrier for older cancer patients & survivors through the integration of different clinical and digital tools such as PROMs, PREMs, symptomatic and geriatric measures, mHealth and wearables, machine learning and artificial intelligence algorithms for Big Data. LifeChamps aims to determine accurately which factors affect the older oncological patients' Quality of Life the most after their treatment and act in the monitoring of health status, contributing to the following three main pillars: Prediction,

Care, and Advice. In the LifeChamps

focuses is the eHealth sector.

project, participation and conformance to standards is a fundamental key to guarantee the potential universal adoption of the developed technologies into the market and to ensure interoperability among the stakeholders. Moreover, as the LifeChamps solution is partially codesigned with the end-users and it is validated in four pilot sites, exploiting multi-national pilot use case scenarios, the standardization activities of the project pay much attention to the standardization of patients' involvement



in research & innovation activities and the recognition of their contribution. The MoU can consolidate even

further this commitment. "I am delighted to have the LifeChamps project joining our StantICT.eu Community where our goal is to reinforce the participation of the eHealth sector. LifeChamps' contribution in standardization related to the use of

health data will be a valuable add for

our experts as this project involves in their research the targeted end users (ie., patients) listening their needs and requirements.", saysFrancesco Osimanti, the vice-coordinator of StandICT.eu2023.

"Upon dealing with new technologies, conforming with standards is an important and key process for widening interoperability as well as the impact of enabling technologies. In innovative topics and approaches like the ones we have in the LifeChamps projects, participating

> in the standardisation process to create norms of best practice is of paramount importance. It is therefore our delightment to be engaged in the process and handshake with StandICT activities as this MoU emphasises", highlights, Prof. Panos Bamidis, the LifeChamps Project co-ordinator.

This collaboration aims at fostering the contribution of the European experts in the global eHealth standardisation. StandICT.eu2023 funds several fellowships (more information onFellow Reports) contributing to the digital transformation of the healthcare sector, and this engagement is showcased notably via the EUOS Work Group in EHealth.LifeChamps will be invited to leverage their standardisation outcomes in the StandICT.eu2023 community especially via, the EUOS, targeted publications and webinars.

# Welcoming Renowned Experts to the LifeChamps Advisory Board

We are excited to announce the addition of two esteemed experts, Dr. Keno Bressem and Dr. Andreas Charalambous, to the LifeChamps Advisory Board. Their extensive experience and knowledge in their respective fields will provide invaluable guidance and insights as we continue to develop our Big Data and Al-driven solution to improve the quality of life for cancer patients, their caregivers, and healthcare professionals.

Dr. Keno Bressem is a highly regarded radiology consultant and digital clinician scientist, with an impressive background in developing algorithms for diagnosing conditions related to pulmonary, urological, and rheumatic systems. His expertise in radiology and digital innovations will be instrumental in advancing the LifeChamps project, ensuring that our AI-driven solutions are aligned with the latest advancements in medical imaging and diagnostics.

Dr. Andreas Charalambous is an Associate Professor of Oncology and Palliative Care and an Adjunct Professor at the University of Turku. He has dedicated his career to cancer care research, with over 200 national and international publications to his name. Dr. Charalambous' extensive expertise in oncology and palliative care will provide invaluable insights into the unique needs and challenges faced by cancer patients, allowing the LifeChamps project to develop more targeted and effective interventions.

As the LifeChamps project continues to progress, the addition of Dr. Bressem and Dr. Charalambous to our Advisory Board will undoubtedly enhance our ability to deliver innovative, Al-driven solutions that can truly make a difference in the lives of cancer patients and their caregivers. We eagerly look forward to their contributions and the impact they will make with LifeChamps.

To learn more about our esteemed Advisory Board members, visit our website: https://lifechamps.eu/index.php/advisory-board

# LifeChamps Events – The Highlights

#### SIOG 2022 Annual Conference, Geneva: LifeChamps Project Was There!

The International Society of Geriatric Oncology is a multidisciplinary membership-based society with members engaged in more than 80 countries worldwide. The goal of SIOG is to strengthen the capacity of health professionals in the field of geriatric oncology, to optimize the treatment of older adults with cancer.

Read More: https://lifechamps.eu/index.php/2022/11/02/siog-2022-annual-conference-geneva-lifechamps-project-was-there





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GENEVA

#### Supporting Elderly Cancer Patients at the 7th Annual Hellenic Cancer **Federation Conference**

LifeChamps proudly participated in the 7th Annual Hellenic Cancer Federation Conference (ΕΛΛΟΚ - Ελληνική Ομοσπονδία Καρκίνου), an essential event focusing on creating a national action plan for cancer care and addressing various challenges faced by oncology patients, including elderly cancer patients and their carers. Our Scientific Coordinator, Dr Antonis Billis, delivered a presentation that showcased the ways LifeChamps supports elderly cancer patients, their carers, and health professionals.

Read More: https://lifechamps.eu/index. php/2023/02/10/supporting-elderlycancer-patients-at-the-7th-annualhellenic-cancer-federation-conference

### ΕΛΛϘΚ ΕΤΗΣΙΟ ΣΥΝΕΔΡΙΟ, ΠΑΡΑΣΚΕΥΗ 3 ΦΕΒΡΟΥΑΡΙΟΥ 2023 Ο ΑΝΘΡΩΠΟΣ ΣΤΟ ΕΠΙΚΕΝΤΡΟ • ME THN AIFIAA TOY YE em. /== 🛯 🤇 10 ζωής των ασθενών με καρκίνο Προσμπίραη έρευνος της All.Can Greece πην Ελλάδα Ποιότητα ζωής των ασθενών: Γιατί πρέπει να επεν στη βελείωσή της Η επιστροφή στην εργορίο των ασθενών με καργία 7<mark>:40 - 18:00</mark> ρόγραμμα Φιλοξενίας Ασθενών ΕΛΛΟΚ: 2020 - 2022 18:00 - 18:15 Ερωτήσεις - Σκολιασμόι 18:15 - 18:30 Διάλομμα 20:00 - 20:30 Ερωτήσεις - Σκολιασμός



#### The LifeChamps Project at the CS **AIW Cluster Meeting In Madrid!**

The LifeChamps project, represented by AUTH Medical Physics & Digital Innovation Lab, European Cancer Patient Coalition (ECPC), Adhera Health & Universitat Politècnica de València UPV Partners, recently participated in the CS AIW cluster meeting in Madrid!

We were thrilled to showcase our cutting-edge technical solution during the final LifeChamps workshop held at the meeting. This was a fantastic opportunity for us to gather invaluable feedback from experts in the field.

Read More: https://lifechamps.eu/index.php/2023/05/18/thelifechamps-project-in-the-cs-aiw-cluster-meeting-in-madrid



### LifeChamps Final Event

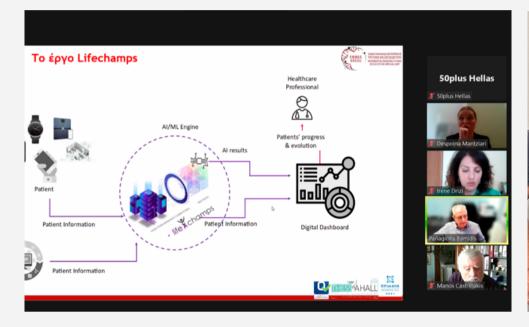
On 30 th May 2023, the LifeChamps project held a two-hour final event at the EU Parliament to discuss the implementation of integrating digital health technologies in cancer care - opportunities, threats, and policy implications. This public event was aimed at presenting the project's prefinal stage results and its findings within the cancer patient community to wide audiences from academic sector to business companies, healthcare professionals and policy-makers.

Read More: https://lifechamps.eu/index. php/2023/06/10/lifechamps-final-event



#### Patient-Centered Health Care & The LifeChamps Project.

Project Coordinator Prof. Panagiotis Bamidis from AUTH Medical Physics & Digital Innovation Lab showcased our groundbreaking technology solutions during his presentation on "Patient-centered health care" the Home Visitor series by Fifty Plus Hellas, an organization focused on critical issues that affect people over fifty. The LifeChamps project revolutionizes patient-centered health care, enhancing the quality of life for older cancer survivors through innovative digital advancements.



#### Groundbreaking Innovation in Healthcare Tech: Focus on LifeChamps-H2020 Project and Well-Being of Aging Population

Our partners at the AUTH Medical Physics & Digital Innovation Lab in Thessaloniki recently hosted a dynamic field visit for some esteemed researchers and experts. Under the GATEKEEPER project, experts explored Smart Living and healthcare tech, including the groundbreaking LifeChamps-H2020 project. Discussions also centered around promoting well-being for the aging population. Stay tuned for more innovations!



#### LifeChamps Project At **HTWG Konstanz Medical** Summer School

Professor Panagiotis Bamidis from AUTH Medical Physics & Digital Innovation Lab recently presented our groundbreaking LifeChamps-H2020 project at the distinguished HTWG Konstanz: Medical Summer School. The focus of this year's program was - "Towards sustainable and co-designed telemedicine systems in the Western Balkans." and it takes place in Tirana, Albania on September 4-8, 2023.

In a session dedicated to the trailblazing initiatives revolutionizing telemedicine and cancer care, Professor Bamidis, along with Ph.D. student and Research Fellow Despoina Mantziari, introduced our innovative project, which exemplifies how telemedicine could shape the future of cancer care.

Read More: https://lifechamps.eu/index. php/2023/09/09/project-showcase-athtwg-konstanz-medical-summer-school

### LifeChamps Project At the **OLLD23 In Barcelona!**

Our project coordinator from AUTH Medical Physics & Digital Innovation Lab is spreading the word about the LifeChamps project at OLLD23 in Barcelona! It's the 2nd day of the Open Living Lab Days 2023, and we're thrilled to be a part of this human-centric innovation extravaganza!

Read More: https://lifechamps.eu/ index.php/2023/09/22/lifechampsproject-at-the-olld23-in-barcelona



#### LifeChamps Plenary Meeting in Glasgow

In the heart of Glasgow, the LifeChamps Plenary meeting recently brought together the consortium for a two-day event focused on our project's final actions. Let's take a concise look at the key highlights from these pivotal days:

Day 1: We showcased our cuttingedge dashboard to clinicians, gearing up for the pilot phase in Greece, Scotland, Sweden, and Spain! Pilot specification, Demonstration, and Evaluation took center stage, paving the way for groundbreaking progress.

Day 2: Day 2 was filled with critical discussions. We covered the project's Management issues, dove into the AI Data Analytics Engine, emphasized Dissemination and Results Exploitation, solidified our Data Management Plan, and outlined our next action points.



#### LifeChamps At The 10th Panhellenic **Conference of The Hellenic Society** Of Biomedical Technology.

Our Project Coordinator, AUTH Medical Physics & Digital Innovation Lab had the incredible opportunity to participate at the 10th Panhellenic Conference of the Hellenic Society of Biomedical Technology, co-organized with Aristotle Medical Forum AMF, in Thessaloniki from 6-8 October 2023.

Read More: https://lifechamps.eu/index.php/2023/10/11/ lifechamps-at-the-10th-panhellenic-conference-ofthe-hellenic-society-of-biomedical-technology



### Breast Cancer: Leaps Of Life Through Dialogue.

For the second time, the Association of Women with Breast Cancer "Alma Zois" of Thessaloniki, in collaboration with the Laboratory of AUTH Medical Physics & Digital Innovation Lab, LifeChamps Project Coordinator, organized on October 6 & 7, 2023, at AUTH, a two-day conference on "Breast Cancer: Leaps of Life through Dialogues", under the auspices of Greece's Ministry of Interior, Ministry of Macedonia-Thrace, the Region of Central Macedonia, the Municipality of Thessaloniki, the Medical Association of Thessaloniki and the Hellenic Breast Surgery Society. LifeChamps Research Fellow Panagiotis Kartsidis had the chance to showcase the project and present the pilots and preliminary results.



#### LifeChamps Project at the **Planetree International Conference in Boston, USA!**

On October 10th, at the prestigious Planetree International Conference in Boston, USA, we had the privilege of showcasing our Oncology-Focused Living Lab activities, emphasizing patient-centered research &



innovation. Dr. Antonis Billis, our Scientific Coordinator, and Despoina Mantiari, LifeChamps Research Fellow, were there to lead the way.

#### LifeChamps at the EMBS International Conference **On Body Sensor Networks in America!**

Antonis Billis, LifeChamps Scientific Coordinator and PostDoc Research Associate at the AUTH Medical Physics & Digital Innovation Lab, Project Coordinator, recently made a remarkable presence at the prestigious IEEE Engineering in Medicine & Biology Society (EMBS) International Conference on Body Sensor



Networks. This premier event, focusing on "Sensors and Systems for Digital Health," celebrated its 20th anniversary in style. During the conference's Technical Session and posters, the LifeChamps team, represented by Antonis, proudly presented a compelling poster titled "Enable care of older cancer survivors with digital health technologies: the LifeChamps project."

Read More: https://lifechamps.eu/index. php/2023/10/17/lifechamps-in-america

#### **European And Greek Cancer Strategy: The Digital Leap Towards** Improving Oncology Care

On November 1, 2023, our very own LifeChamps project Coordinator and **Director of AUTH Medical Physics & Digital** Innovation Lab, Prof. Panagiotis Bamidis



took the stage at the "European and National Cancer Strategy: The Digital Leap towards Improving Oncology Care" event.

Read More: <u>https://lifechamps.eu/</u> index.php/2023/11/01/european-andgreek-cancer-strategy-the-digital-leaptowards-improving-oncology-care

#### **Introducing TERCS - Twinning for Elderly Cancer Survivors.**

We're thrilled to announce that LifeChamps has been granted a fantastic opportunity to make a real difference in the field of healthcare. Thanks to the Digital Health Uptake (DHU) program, our "Twinning for Elderly Cancer Survivors" (TERCS) initiative has been selected for funding!

TERCS, short for "Twinning for Elderly Cancer Survivors" is a twinning initiative that draws from the rich knowledge and experience gained during the development of the LifeChamps project. TERCS is based on the pioneering nature of LifeChamps' digital biomarker approach and the opportunity to equip the adopter, Oncology Institute "Prof. Dr. Ion Chiricuta", Cluj-Napoca (IOCN), with digital tools and technologies that require no digital fluency, though contribute highly to patient monitoring. LifeChamps offers a transformative opportunity for the daily monitoring of elderly cancer patients and survivors, a demographic that has often been underserved in terms of personalized care. By collaborating on this twinning initiative, the adopter can leverage the innovative digital biomarkers developed in LifeChamps to revolutionize the assessment of Quality of Life (QOL) in various patient case scenarios.

The concept of the twinning project is to empower the Romanian healthcare center (IOCN) with the necessary knowledge and skills to effectively use Information and Communication Technology (ICT) to manage frailty in patients. Frailty is a critical healthcare concern, especially in an aging population, and

the project aims to enhance the healthcare center's ability to provide better care and support to frail individuals through ICT solutions. TERCS is poised to yield a wide array of anticipated outcomes and benefits for Romanian citizens, patients, and their caregivers. These benefits extend beyond the immediate clinical setting and hold the potential to positively impact healthcare quality, long-term care, and patient empowerment

#### LifeChamps Project at the 2023 **EFMI Special Topic Conference!**

At the 2023 EFMI Special Topic Conference in Turin, Italy, our Research Fellow Emmanouil Kokoroskos (MD, Research Associate at APC, PhD Candidate in General Medicine) presented our Preliminary Findings on "Involving Patients into the LifeChamps Project" during the 3rd session on AI Applications to Telehealth, Healthbots, and Conversational Agents. We're dedicated to bringing healthcare and technology together to create a brighter future. Our research is paving the way for more patient-centric telehealth solutions, and we couldn't be more thrilled to share our progress with you. Stay tuned for more updates as we continue our journey to revolutionize cancer care!

Session 3 - AI applications to telehealth, healthbots and conversational agents Chair: Pierangelo Veltri Co-chair: Davide Simeone	
🗯 16:00 - 16:10	A Study on Optimization and Evaluation of the Visualization of Complex Algorithm Results in Remote Monitoring of COPD Mathilde D. SANDER, Rikke L. MADSEN, Sisse H. LAURSEN, Stine HANGAARD
16:10 - 16:20	A Custom Image Recognition Model in the Cloud for skin diseases identification Mircea-Aurelian DAN, Stelian NICOLA, Lacramioara STOICU-TIVADAR
16:20 - 16:30	Involving patients into the LifeChamps project: preliminary findings <u>Emmanouil KOKOROSKOS</u> , Natalia STATHAKAROU, Erica RAUHALA, Despoina MANTZIARI, George BAXEVANIS, Nikolaos PAPACHRISTOU, Antonis BILIS, Panagiotis BAMIDIS and Panagiotis PAPACHRISTOU

# **Consortium Partners**

UNIVERSITAT Politècnica de valència Karolinska Institutet Capgemini **DCL**Technologies EXALENS Instituto de Investiaació Sanitaria La Fe University of Glasgow netcompany European Cance **MYSPHERA** Academic primary health care centre atient Coalition adherahealth

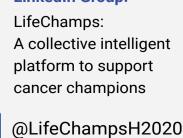


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LifeChamps-H2020

