



## D7.5 Dissemination and communication activities version 3

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## Executive summary

This deliverable outlines the dissemination and communication activities carried out within the CARDIOCARE project during the period from M31 to M48. These efforts have aimed to enhance the visibility of the project and to effectively communicate its concept, objectives, and emerging results to a broad spectrum of stakeholders. The document also provides an overview of the planned actions for the remaining twelve months of the project.

An updated version of Table 1 illustrates how the reported activities align with the Description of Action (DoA), specifically Task 7.1, up to month 48. It offers a comprehensive view of the consortium's work in promoting the project's vision, progress, and achievements, ensuring strategic and targeted dissemination and communication.

*Table 1: Compliance of D7.5 with the DoA.*

DoA Task description	Addressed by D7.5
Project related communication and dissemination activities will start with the development of the CARDIOCARE website at the beginning of the project. The CARDIOCARE website will include both private and public sections and will be created by FORTH at the beginning of the project. The public material will be limited to information related with the general project activities while the private sector will provide documents and partner collaboration tools including access to the EC deliverables.	The CARDIOCARE website was launched at the beginning of the project and has been continuously updated with the latest news, newsletters, and project results. Its design has been progressively refined to improve the presentation of content and enhance user engagement. A new section "For patients" was created. In this section, patients are informed on issues that are of more interest for them and in a more simplified language (e.g. scientific papers in layman's language). In addition, usability testing was conducted to ensure the platform delivers an optimal user experience and meets the needs of our diverse audience.
Press releases, posters and brochures will be created at the beginning of the project and will be updated annually, while a newsletter will be created and distributed to the ESC network and target groups bi-annually. Additionally, the CARDIOCARE social media will be developed at the beginning of the project and be updated at a regular basis. Two videos will be generated and uploaded in YouTube channels that will be created for the needs of CARDIOCARE communication and dissemination needs. Participation in scientific related conferences will be performed to present outcomes and results that occur in active WPs. The European Society of Cardiology (ESC) will support dissemination activities via its Annual Congresses and family of journals. ESC organises its Annual Congress (circa 33.000 participants), currently the largest cardiovascular medical congress worldwide and edits and publishes more than 10 of the world's leading journals on cardiology. It has an excellent track record for communicating and disseminating cardiology-related science to relevant audiences in Europe and across the globe. The project is expected to produce scientific publications in high-impact peer-review journals by presenting all designed milestones as the main scientific and research outcomes.	Two press releases were developed by ESC, in collaboration with UOI and STREMBLE, during the Symposium in ESC Cardio-Oncology 2025 (Section 4.1.5). Additional communication material (i.e. leaflet and a report) was also created to assist in the dissemination of the project (Section <b>Error! Reference source not found.</b> ). The 4th newsletter was released and the 5th newsletter is currently being prepared (Section 4.1.6). Social media accounts were created on 3 popular social media platforms at the beginning of the project and are updated on a regular basis (Section 3.2). Four dissemination videos were produced to effectively communicate the objectives and outcomes of the CARDIOCARE project to both the general public (e.g. a video featuring a patient from BOCOC sharing her experience participating in the CARDIOCARE clinical trial) and the scientific community (e.g. a recording of the Regulatory Workshop) (Section 4.1.8). Through CARDIOCARE's active participation in various events, ongoing efforts are made to engage both the general public and the scientific community

	effectively. (e.g. Regulatory Workshop, Symposium in ESC Cardio-Oncology 2025, project presentation on Greek TV show). Five publications in scientific journals were also produced.
Specific budget for Open-access options in scientific publications has been taken into account. For Open-access and Open-data options solutions such as Zenodo will be explored. Members of the consortium will also perform several scientific lectures disseminating the concept and the results of the CARDIO CARE. Importantly, a dedicated workshop for the CARDIO CARE project and presentation of results will be hosted annually in the ESC Congresses while increased dissemination and project exposure will be achieved via ESC social media channels and website, as well as project endorsement and hosting at the ICOS and EUROPA DONNA websites.	<p>A dedicated budget has been allocated for open-access publication options to ensure broad visibility and accessibility of CARDIO CARE's scientific output. Consortium members contributed to the scientific community through lectures and presentations that highlight the project's concept, methodologies, and emerging results. As part of our strategic dissemination plan, a CARDIO CARE workshop and a dedicated session were hosted at the ESC Congresses, ensuring sustained engagement with the cardiovascular research community. Additionally, dissemination efforts are supported by visibility and endorsement through key stakeholder networks, including ICOS and EUROPA DONNA. A dedicated scientific session is scheduled for the ESC Congress 2025.</p> <p>As CARDIO CARE enters its final year, dissemination efforts will intensify, supported by concrete results and validated outcomes. The ESC network will remain a key channel for targeted communication, while final-phase activities will focus on maximizing visibility, promoting result uptake, and ensuring lasting impact across key stakeholder communities.</p>

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# List of Abbreviations

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Abbreviation	Explanation
<b>DoA</b>	Description of Action
<b>KPIs</b>	Key Performance Indicators
<b>PIL</b>	Patient Information Leaflet
<b>GA</b>	Grant Agreement

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# 1 Introduction

This deliverable provides an overview of the dissemination and communication activities carried out during months 31 to 48 of the CARDIO CARE project. These efforts have aimed to share the project's objectives as well as the scientific and technical knowledge generated, while also maximizing impact and increasing awareness of the project's concept and outcomes among key target groups. These include elderly multi-morbid patients affected by breast cancer therapy-induced cardiotoxicity, healthcare professionals, clinical guideline developers, policymakers, scientific societies, and broader healthcare stakeholders.

Dissemination and communication are recognized as essential components for ensuring the successful implementation and long-term sustainability of CARDIO CARE. Initiated in month 1, these activities have evolved continuously throughout the project's lifecycle. Figure 1 illustrates the dissemination and communication measures implemented across the full project timeline. Table 2 details the progress achieved in each category of dissemination activity up to month 48.



Figure 1: CARDIO CARE dissemination & communication activities.

The dissemination strategy of CARDIO CARE is designed to reach beyond the immediate healthcare and patient communities, engaging a wider scientific audience to promote awareness of the project's innovative methodologies and the potential benefits they offer in managing elderly multi-morbid patients. Effectively sharing the project's concept, vision, and results remains a key priority, as it is vital not only for the successful implementation of CARDIO CARE but also for supporting its long-term sustainability and future integration into healthcare practices.

Table 2: Overall CARDIOCARE dissemination &amp; communication targets – current status.

Dissemination category	DoA target M1-M48	Performed M1-M18	Performed M19-M30	Performed M31-M48	Performed M1-M48
Logo	1	1	-	-	1
Website	1	1	-	-	1
Social media	4	4	-	-	4
Posters	4	1	1	3	5
Brochures	4	2	1	2	5
Newsletters	8	2	2	1	5
Press Releases	4	1	1	2	4
Videos/Podcasts	2	2	2	4	8
Workshop @ ESC congress	4	0	1	2	3
Workshop @ IEEE BHI conference	1	1	-	-	1
Presentations in international conferences	- 9 presentations on individual project results - 4 presentations on overall project presentation	3 + 3	10 + 6	10 + 12	23 + 21
Publications in open-access journals	- 4 publications on individual project results - 1 publication on overall project presentation	1 + 0	2 + 0	5 + 0	8 + 0
Workshop on regulatory aspects	1	0	0	1	1
Mailing list	5000 emails	80 emails	1.500 emails	12.000 emails	12.000 emails
Interactive face-to-face networking EU organized events	3	1	2	1	4
Synergies with other EU funded projects	5	7	6 * 5 new	11 *8 new	20

## 1.1 Purpose of the document

This deliverable outlines the dissemination and communication activities carried out during months 31 to 48 of the CARDIO CARE project. It provides a comprehensive overview of the actions implemented in this period and presents any updates to the dissemination and communication plan originally outlined. All related future activities will be reported in detail on D7.6 Dissemination and communication activities version 4 on M60, along with any updates on the planned activities.

## 2 Communication and Dissemination strategy

The principal objectives of the CARDIOCARE communication and dissemination activities are: a) to enhance awareness and understanding of the project, its vision, and its outcomes among healthcare professionals, researchers, patients, and the general public; b) to disseminate and share the results, knowledge, and information generated by the project in order to maximize its impact, promote broader uptake, and support further use by other relevant stakeholders, while also facilitating the reuse of knowledge; c) to promote the project's results and communicate their benefits to various target groups and beneficiaries, thereby supporting commercial exploitation; d) to ensure that policymakers and guideline developers are informed about the project and its potential influence on future policies and practices; and e) to create a lasting impact on both the European economy and the public. To achieve these objectives, the CARDIOCARE project employs three primary communication channels:

- Channel 1: Electronic activities (i.e., 1 website, 5 newsletters, 4 social media, 4 press releases, 4 videos for the period M31-M48).
- Channel 2: Non-electronic activities (i.e., 1 brochure, 1 report, 3 posters for the period M31-M48)
- Channel 3: Interactive activities (e.g. 4 EU-organized events and exhibitions, 11 synergies with other projects for the period M31-M48).

For the reporting period, the project's scientific and technical results were disseminated via 5 peer-reviewed paper publications in open-access journals. Moreover, presentations at specialized conferences and events took place (20 presentations took place in total for the period M31-M48). Webinars, seminars, and live events will be utilized to engage cancer patients, patient organizations, and caregivers, in partnership with local and European associations, to communicate the project's objectives and outcomes.

### 2.1 CARDIOCARE target groups

Various target communities have been identified as potential beneficiaries of the results and outcomes of the CARDIOCARE project. The dissemination strategy aims to engage a wide range of audiences, including elderly breast cancer patients and patient associations, medical experts such as oncologists, cardiologists, psychologists, radiologists, and surgeons, as well as the broader medical and scientific community. Additionally, the strategy targets guideline developers, policymakers, and stakeholders within the healthcare system. Small and medium-sized enterprises (SMEs) in biomedical engineering and health informatics are also key groups, along with health insurance companies, investors, and social media providers.

Throughout the reporting period (M31-M48), various activities were carried out to effectively communicate the CARDIOCARE vision and outcomes to breast cancer patients and the broader public. To achieve this, a new section "For patients" was created. In this section, patients are informed on issues that are of more interest for them and in a more simplified language (e.g. scientific papers in layman's language). Moreover a video was produced featuring a patient speaking about her participation in the CARDIOCARE clinical study, aiming to inform and encourage other patients through her personal experience.

The audience for the different dissemination and communication activities are presented in the following table.

Table 3: Audience of the CARDIO CARE dissemination &amp; communication activities

Dissemination and communication activities	Audience
<b>CARDIO CARE website</b>	civil society, elderly breast cancer patients, medical and scientific community, medical experts, guideline producers, healthcare stakeholders, policy makers, patient associations
<b>CARDIO CARE logo, posters, brochures, press releases</b>	elderly breast cancer patients, medical and scientific community, healthcare institutions, healthcare providers, point-of-diagnostics industry, medical software industry, SMEs
<b>Social media, lay summaries of scientific papers</b>	patient associations and civil society
<b>Oral or poster presentations at national and international conferences</b>	
<ul style="list-style-type: none"> <li>7th Hellenic Congress of Oncology</li> </ul>	medical community, healthcare providers
<ul style="list-style-type: none"> <li>Cardiovascular Imaging Congress</li> </ul>	
<ul style="list-style-type: none"> <li>Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’”</li> </ul>	
<ul style="list-style-type: none"> <li>Panhellenic Congress “New Drugs in Oncology: from research to practice”</li> </ul>	
<ul style="list-style-type: none"> <li>Panhellenic Congress “Heart Failure from A to Z, latest advances 2024”</li> </ul>	
<ul style="list-style-type: none"> <li>2nd Congress Heart and Cancer</li> </ul>	
<ul style="list-style-type: none"> <li>ESC Congress 2024</li> </ul>	
<ul style="list-style-type: none"> <li>45th Hellenic Congress of Cardiology</li> </ul>	
<ul style="list-style-type: none"> <li>5th Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management</li> </ul>	
<ul style="list-style-type: none"> <li>26th Panhellenic Congress for Heart Failure</li> </ul>	
<ul style="list-style-type: none"> <li>“Heart Failure and Cancer – Updates 2025” Congress</li> </ul>	
<ul style="list-style-type: none"> <li>Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment</li> </ul>	
<ul style="list-style-type: none"> <li>EMBC 2024</li> </ul>	medical community, scientific community, healthcare providers
<ul style="list-style-type: none"> <li>EuroEcho-Imaging 2024</li> </ul>	

<ul style="list-style-type: none"> <li>22nd International Symposium on Medical Devices and Biosensors (MDBS 2024)</li> </ul>	
<ul style="list-style-type: none"> <li>ESC Cardio-Oncology 2025</li> </ul>	
<ul style="list-style-type: none"> <li>IncontraDonna Conference “Care through Listening, Network, Transdisciplinarity, Empathy”</li> </ul>	patients, medical community, scientific community, healthcare providers
<b>Participation in events/exhibitions</b>	
<ul style="list-style-type: none"> <li>Innovent Forum</li> </ul>	scientific community
<ul style="list-style-type: none"> <li>InnoHealth Satellite Event #3</li> </ul>	
<ul style="list-style-type: none"> <li>InnoHealth Satellite Event #4</li> </ul>	
<ul style="list-style-type: none"> <li>1st Greek Forum on Cancer: Policy, Research &amp; Funding Strategies.</li> </ul>	
<ul style="list-style-type: none"> <li>14th FORTH Scientific Retreat</li> </ul>	
<ul style="list-style-type: none"> <li>5th Scientific event titled “Breast Cancer and the Contemporary Challenges in Clinical Management”</li> </ul>	
<ul style="list-style-type: none"> <li>ESC Spring Summit 2024</li> </ul>	medical community, scientific community
<ul style="list-style-type: none"> <li>22nd International Summer Academy on AI in Healthcare, Medicine, and Biology</li> </ul>	
<ul style="list-style-type: none"> <li>Workshop “Navigating the Regulatory Landscape in Cardiovascular Health”</li> </ul>	guideline producers, regulatory experts, policy makers
<ul style="list-style-type: none"> <li>Event organized by the Department of Nursing at the University of Ioannina</li> </ul>	breast cancer patients, civil society
<ul style="list-style-type: none"> <li>Event “Breast Cancer from Ancient Times to Today: Narratives – Illustrations – Answers”.</li> </ul>	medical community, breast cancer patients, civil society
<b>Publication in high impact peer-reviewed journals</b>	
<ul style="list-style-type: none"> <li>An interdisciplinary ecosystem for the psychosocial and behavioural management of Cardiotoxicity in elderly breast cancer patient: a prospective clinical study</li> </ul>	medical community, scientific community
<ul style="list-style-type: none"> <li>Association of echocardiographic radiomics-based features with cardiotoxicity effect in breast cancer patients from the CARDIOCARE project</li> </ul>	
<ul style="list-style-type: none"> <li>Impact of e-Health Interventions on Mental Health and Quality of Life in Breast Cancer Patients: A Systematic Review and Meta-Analysis of Randomized Controlled Trials</li> </ul>	

<ul style="list-style-type: none"><li>▪ Towards PTSD Diagnosis Through ECG Anomaly Detection based on Autoencoders</li></ul>	
<ul style="list-style-type: none"><li>▪ A Review on Deep Learning for Quality of Life Assessment Through the Use of Wearable Data</li></ul>	



### 3 Public communication tools

This section presents the key performance indicators (KPIs) used to assess the effectiveness of the project website and social media, as well as the supplementary communication materials and tools developed during the period M31-M48.

#### 3.1 Project website and related KPIs

The CARDIO CARE website can be accessed at the following URL: <https://cardiocare-project.eu/>. Since its launch at the beginning of the project, the website has been continuously updated. All project partners are encouraged to contribute to the site by suggesting new content and updates. To enhance the project's visibility, all partners actively help drive traffic to the website and are asked to promote it within their respective institutions. Partners leverage their social media channels and websites to share news, videos, and newsletters from the CARDIO CARE website, using direct links to the site. Additionally, the website is connected to the official pages of the consortium members.

A special section on CARDIO CARE website was created titled “For Patients”. In this section, patients are informed on issues that are of more interest for them and in a more simplified language (e.g. scientific papers in layman’s language). It is important to note that the website has been improved based on feedback from reviewers while a usability testing was conducted to identify and address any issues, ensuring the website provides an optimal and user-friendly experience for visitors.



Figure 2: The “For Patients” section in the CARDIO CARE website

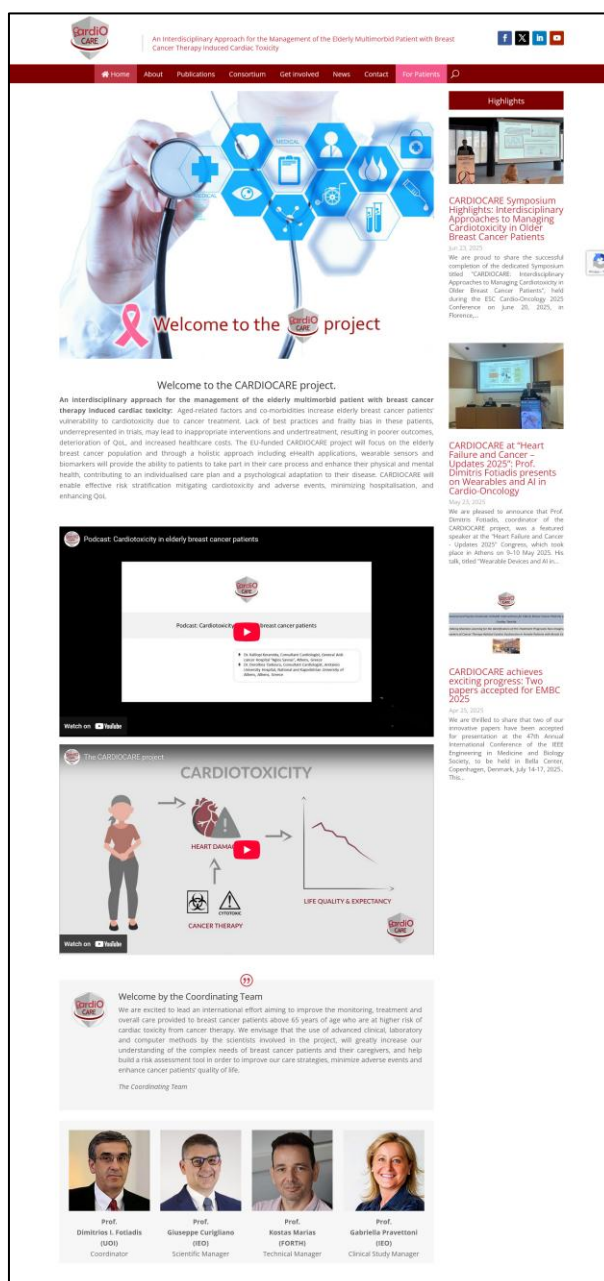


Figure 3: CARDIOCARE website – Home page.

Both qualitative and quantitative metrics are utilized to assess website traffic. Google Analytics provides insights into various aspects, such as the total number of visitors, the countries with the highest traffic (Figure 4), the most popular pages (Figure 5), and the primary channels through which users first accessed the site (Figure 6). Since the project's inception, the website has received 6.193 visitors and 13.899 page views (last update: 28.06.2025).

<input type="checkbox"/>	Country	<input type="checkbox"/>	↓ Active users	↓ New users
<input type="checkbox"/>	Total		<b>3,049</b> 100% of total	<b>2,953</b> 100% of total
<input type="checkbox"/>	1 Greece		627 (20.56%)	606 (20.52%)
<input type="checkbox"/>	2 United States		485 (15.91%)	483 (16.36%)
<input type="checkbox"/>	3 Italy		205 (6.72%)	202 (6.84%)
<input type="checkbox"/>	4 Cyprus		161 (5.28%)	154 (5.22%)
<input type="checkbox"/>	5 Netherlands		131 (4.3%)	125 (4.23%)
<input type="checkbox"/>	6 India		114 (3.74%)	113 (3.83%)
<input type="checkbox"/>	7 China		110 (3.61%)	58 (1.96%)
<input type="checkbox"/>	8 United Kingdom		103 (3.38%)	102 (3.45%)
<input type="checkbox"/>	9 Egypt		98 (3.21%)	98 (3.32%)
<input type="checkbox"/>	10 Sweden		85 (2.79%)	84 (2.84%)

Figure 4: Top-10 countries with most visitors of the CARDIO CARE website for the reporting period  
(last update: 28.06.2025)

<input type="checkbox"/>	Page title and screen name	<input type="checkbox"/>	↓ Views
<input type="checkbox"/>	Total		<b>7,708</b> 100% of total
<input type="checkbox"/>	1 Home - CARDIO CARE		3,442 (44.65%)
<input type="checkbox"/>	2 About the project - CARDIO CARE		480 (6.23%)
<input type="checkbox"/>	3 News - CARDIO CARE		458 (5.94%)
<input type="checkbox"/>	4 Publications - CARDIO CARE		369 (4.79%)
<input type="checkbox"/>	5 Consortium - CARDIO CARE		325 (4.22%)
<input type="checkbox"/>	6 Get involved - CARDIO CARE		224 (2.91%)
<input type="checkbox"/>	7 Contact - CARDIO CARE		173 (2.24%)
<input type="checkbox"/>	8 For Patients - CARDIO CARE		134 (1.74%)
<input type="checkbox"/>	9 Spotlight on Early Career Researchers: An interview with Alexia Alexandraki (BOCOC) - CARDIO CARE		84 (1.09%)
<input type="checkbox"/>	10 CARDIO CARE Symposium at ESC Cardio-Oncology 2025 - CARDIO CARE		77 (1%)

Figure 5: Number of views by page title for the reporting period (last update: 28.06.2025).

<input type="checkbox"/>	First user source	+	↓ Total users
<input type="checkbox"/>	Total		3,053 100% of total
<input type="checkbox"/>	1 google		1,482 (48.54%)
<input type="checkbox"/>	2 (direct)		1,127 (36.91%)
<input type="checkbox"/>	3 m.facebook.com		66 (2.16%)
<input type="checkbox"/>	4 facebook.com		49 (1.6%)
<input type="checkbox"/>	5 lm.facebook.com		45 (1.47%)
<input type="checkbox"/>	6 linkedin.com		41 (1.34%)
<input type="checkbox"/>	7 bing		38 (1.24%)
<input type="checkbox"/>	8 escardio.org		34 (1.11%)
<input type="checkbox"/>	9 ieo.it		30 (0.98%)
<input type="checkbox"/>	10 l.facebook.com		21 (0.69%)

Figure 6: First-user acquisition over different sources for the reporting period (last update: 28.06.2025).





### 3.2 Social media and related KPIs

The project has established social media channels on Facebook, Twitter, LinkedIn, and YouTube. These platforms are regularly updated to engage visitors, raise awareness about the project, and keep interested parties informed about the latest news, progress, and results. New posts are shared as frequently as possible, with a strong emphasis on directing followers to the main project website for more detailed information.

All partners actively promote the project's news and public updates through their own social media channels, contributing content for broader dissemination. Additionally, the project's social media accounts are linked to those of the partners, as well as related projects and organizations.

The effectiveness of each social media channel is measured using specific metrics, which are presented below.

Table 4: CARDIOCARE Social media channels.

Social Media Channel	Page title	Username	URL	QR code
Twitter	CardiOCare	@CardiOCare_eu	<a href="https://twitter.com/CardiOCare_eu">https://twitter.com/CardiOCare_eu</a>	
LinkedIn	CardiOCare	-	<a href="https://www.linkedin.com/company/cardiocare-eu/">https://www.linkedin.com/company/cardiocare-eu/</a>	
Facebook	Cardiocare	@CardiOCare.eu	<a href="https://www.facebook.com/CardiOCare.eu">https://www.facebook.com/CardiOCare.eu</a>	
YouTube	CARDIOCARE Project EU	@cardiocareprojecteu	<a href="https://www.youtube.com/@cardiocareprojecteu">https://www.youtube.com/@cardiocareprojecteu</a>	

In Table 55, the total number of followers for each social media channel is presented at different time points (M6-M12-M18-M30-M48). In terms of followers, there has been a noticeable increase in recent months. The total number of views for the videos on the CARDIOCARE YouTube channel is 963.

*Table 5: Followers (total) for each social network (last update: 27.06.2025).*

KPI: Followers (total)	December 2021	June 2022	December 2022	December 2023	June 2025
Twitter	8	19	25	38	47
LinkedIn	28	83	117	182	290
Facebook	12	48	65	103	135
YouTube	-	-	6	18	26

### 3.3 Brochures and Posters

As part of the project's communication and dissemination strategy, a project brochure was created to support the overall communication needs of the project. The brochure provides an accessible overview of the project's objectives, activities, and expected impacts, and is intended for distribution to stakeholders, partners, and the broader public [URL: [https://cardiocare-project.eu/wp-content/uploads/2024/06/Cardiocare\\_Brochure\\_A4\\_final\\_June2024.pdf](https://cardiocare-project.eu/wp-content/uploads/2024/06/Cardiocare_Brochure_A4_final_June2024.pdf) ].

In addition, an eight-page project report was prepared to support the organization of the upcoming Regulatory Workshop. This report was specifically designed to provide key background information and context, and was used as a supporting document when reaching out to and inviting potential speakers, with the aim of ensuring their engagement and participation [ URL: <https://cardiocare-project.eu/wp-content/uploads/2024/07/The-CARDIOCARE-project-Report.pdf> ].

To further disseminate the project's objectives and early findings, three scientific posters were produced and presented at prominent conferences. These included:

- the 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2024) [URL: [https://cardiocare-project.eu/wp-content/uploads/2025/07/EMBC2024\\_Autoencoder-Based-ECG-Analysis-Advancing-PTSD-Diagnosis-through-Anomaly-Detection.pdf](https://cardiocare-project.eu/wp-content/uploads/2025/07/EMBC2024_Autoencoder-Based-ECG-Analysis-Advancing-PTSD-Diagnosis-through-Anomaly-Detection.pdf) ]
- the 14th FORTH Scientific Retreat [URL: <https://cardiocare-project.eu/wp-content/uploads/2024/11/14th-FORTH-Scientific-Retreat-Deep-Learning-based-Automated-Assessment.pdf> ]
- the EuroEcho-Imaging 2024 [URL: <https://cardiocare-project.eu/wp-content/uploads/2025/02/EuroEcho-Imaging-2024.pdf> ]
- the ESC Cardio-Oncology 2025 congress [URL: [https://cardiocare-project.eu/wp-content/uploads/2025/06/ESC-Cardio-Oncology-2025\\_Gut-microbiome-correlations-with-cardiotoxicity-biomarkers.pdf](https://cardiocare-project.eu/wp-content/uploads/2025/06/ESC-Cardio-Oncology-2025_Gut-microbiome-correlations-with-cardiotoxicity-biomarkers.pdf) ]

Each poster was adapted to reflect the focus of the respective event and its target audience, highlighting relevant aspects of the project's research activities and preliminary outcomes. These participations contributed to raising awareness about the project within the scientific community and facilitated valuable exchanges with experts in the field.

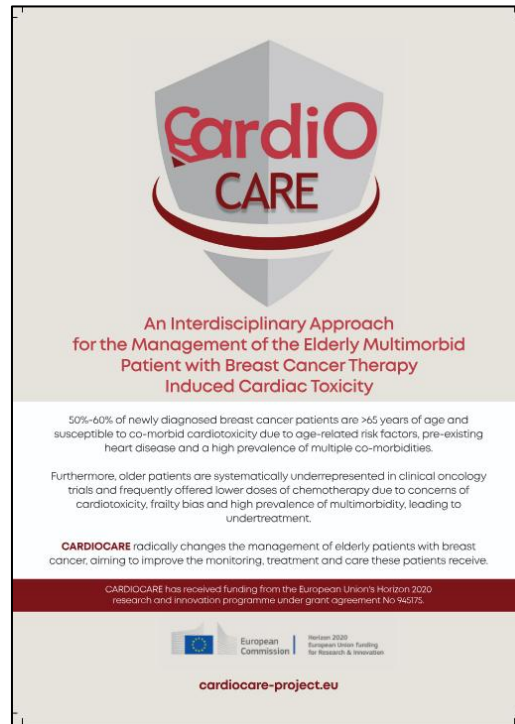


Figure 7: Brochure - Page 1



Figure 8: Brochure - Page 2

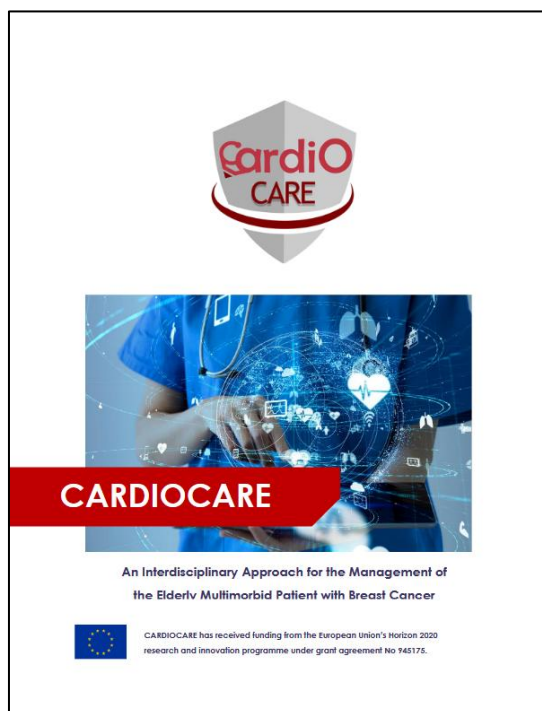


Figure 9: Report - Page 1

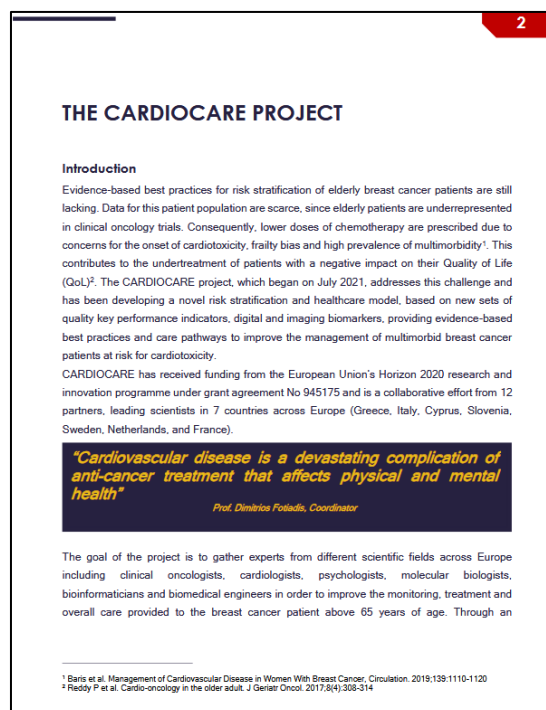


Figure 10: Report - Page 2





**Poster No. 8387**

## Autoencoder-Based ECG Analysis: Advancing PTSD Diagnosis through Anomaly Detection

Vasileios Skaramagkas<sup>1,2</sup>; Ioannis Kypraki<sup>1,2,3</sup>; Georgila S. Karanasiou<sup>4,5</sup>; Dimitrios I. Fotiadis<sup>4,5</sup>; Manolis Tsiknakis<sup>1,2</sup>

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 3. Dept. of Science et Techniques, University of Burgundy, 21000, Dijon, France  
 4. Biomedical Research, Institute of Molecular Biology and Biotechnology (FORTH), GR-451 10, Ioannina, Greece  
 5. Dept. of Materials Science and Engineering, Unit of Medical Technology and Intelligent Information Systems, University of Ioannina, GR-451 10, Ioannina, Greece

### INTRODUCTION

- PTSD often identified through self-reports, susceptible to errors.
- Deep learning for medical diagnostics has made significant progress.
- Lack of models for diagnosing PTSD using ECG data.
- Study aims to address this by using autoencoder-based anomaly detection.
- Aims to detect subtle abnormalities indicating PTSD in breast cancer patients.

### RESULTS

- Minimal reconstruction errors in normal ECGs.
- Anomalies showed significant differences between actual and reconstructed data.
- A threshold value of 0.0016 established for differentiating between normal and anomalous data.
- Model achieved 82.64% accuracy in identifying anomalous ECG heartbeats.
- F1-score of 0.82 indicates model's efficacy in PTSD diagnosis.

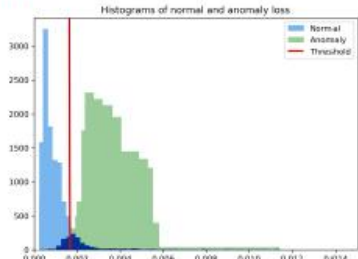


Figure 1. Histograms of normal and anomaly losses along with the computed threshold.

### METHODS

#### CARDIOCARE's Clinical Study on PTSD Detection

- Dataset includes ECG signals from 42 individuals over six months.
- Patients used Polar H10 Heart Rate Sensor to document 30-minute ECGs at two-week intervals.
- 10 patients scored 33 or higher, indicating PTSD likelihood.
- ECGs segmented into separate heartbeats, standardized, and split into training and testing datasets.
- Dataset comprised 70,095 heartbeat samples, classified into normal and anomalous groups based on IES-R scores.
- Autoencoder architecture used: encoder with four dense layers, decoder that restores data, TensorFlow and Keras training.
- Performance evaluation assessed model's capacity to rebuild normal ECG data and identify PTSD abnormalities.
- Model efficacy evaluated by measuring accuracy and f1-score in recognizing anomalous heart rhythms.

### CONCLUSION

- Accurate distinction between normal and abnormal ECG signals.
- Promising non-invasive techniques.
- Advanced computational approaches for timely therapies and symptom monitoring.

### REFERENCES

- Alamr, A., & Arloti, A. (2023). Unsupervised transformer-based anomaly detection in ecg signals. *Algorithms*, 16(3), 152. <https://doi.org/10.3390/a16030152>
- Ge, F., Yuan, M., Li, Y., & Zhang, W. (2020). Posttraumatic stress disorder and alterations in resting heart rate variability: A systematic review and meta-analysis. *Psychiatry Investigation*, 17(1), 9–20. <https://doi.org/10.30773/pi.2019.0112>

### CONTACT

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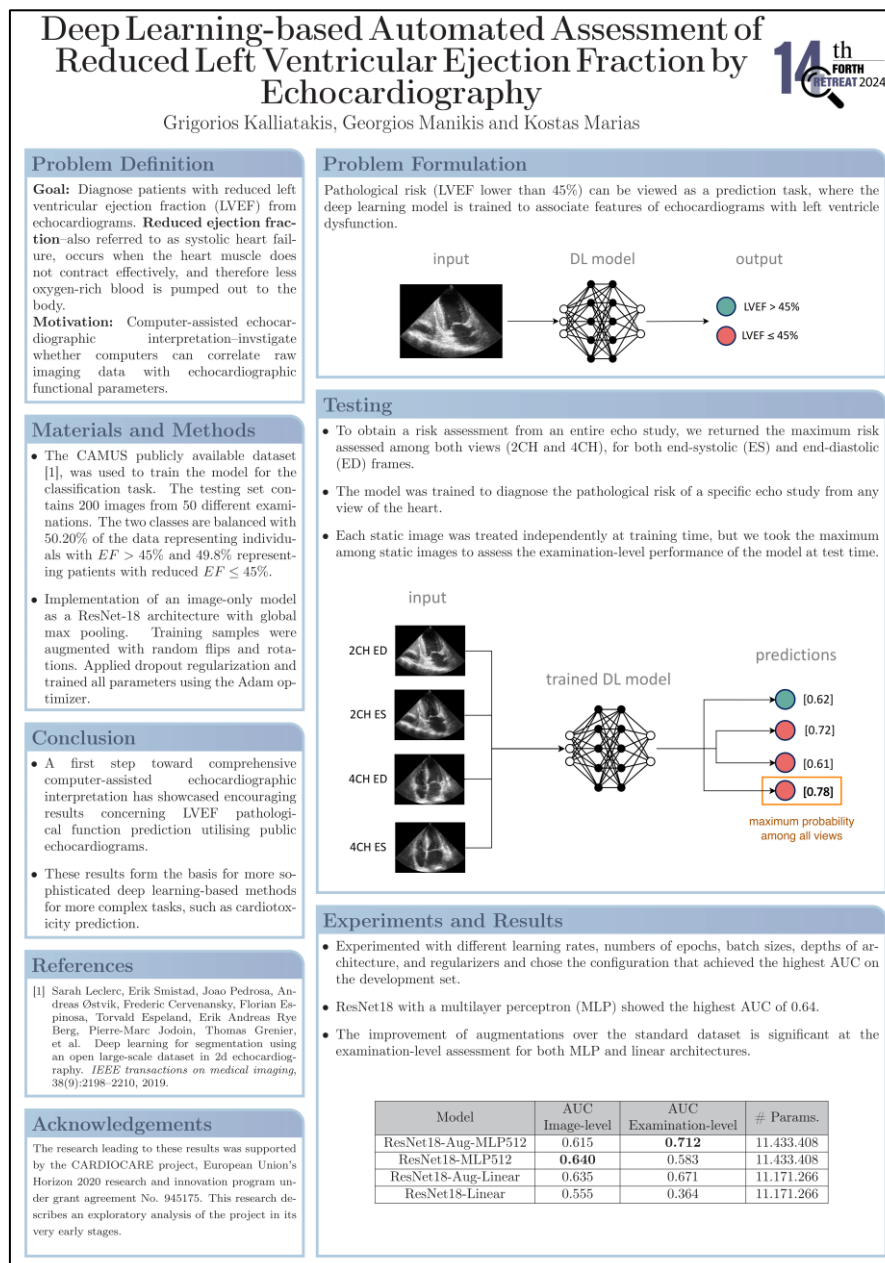


Figure 11: Poster for EMBC 2024





## Association of echocardiographic radiomics-based features with cardiotoxicity effect in breast cancer patients from the CARDIO CARE project

G. Manikis<sup>1</sup>, G. Kalliatakis<sup>1</sup>, K. Marias<sup>1</sup>, V. Bouratzis<sup>2</sup>, L. Lakkas<sup>2</sup>, A. Naka<sup>2</sup>, G. Karanasiou<sup>3</sup>, D. Tsekoura<sup>4</sup>, E. Kampouroglou<sup>4</sup>, K. Keramida<sup>5</sup>, A. Papakonstantinou<sup>6</sup>, A. Constantinidou<sup>7</sup>, K. Mazzocco<sup>8</sup>, C. Cipolla<sup>9</sup>, D. Fotiadis<sup>3</sup>

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- **Purpose:** Leverage radiomics analysis to explore innovative, non-invasive echocardiography biomarkers that correlate with breast cancer therapy induced cardiac toxicity.

- **Methods:**

- ✓ 28 prospective patients of the CARDIO CARE EU project undergoing cardiotoxic antineoplastic therapy.
- ✓ End diastolic (ED) and end systolic (ES) apical 2- and 4-chamber view at treatment start (T0) and 3 months after (T1).
- ✓ Pre-trained deep neural network automatically segmented the myocardium (MY) and the left ventricle (LV) from all images.
- ✓ Radiomics-based features were extracted from all areas to elicit hidden image patterns using histogram, shape and textural features.
- ✓ Delta-radiomics were calculated as the relative change in radiomics values between T0 and T1 to reveal potential changes at the MY and LV areas through treatment.

- **Results:**

- ✓ A univariate analysis identified a subset of 20 delta-radiomics and 20 radiomics features from T1 to be considered statistically significant ( $p < 0.05$ ) in correlating with cardiac toxicity response.

- **Conclusions:**

- ✓ Radiomics-based features quantifying tissue heterogeneity of the myocardium area have potential diagnostic impact in assessing cardiotoxicity response in breast cancer patients.

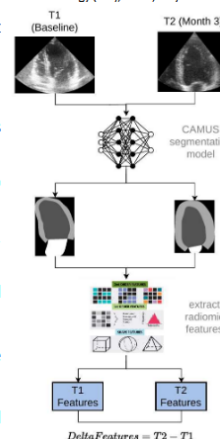


Figure 13: Poster for EuroEcho-Imaging 2024

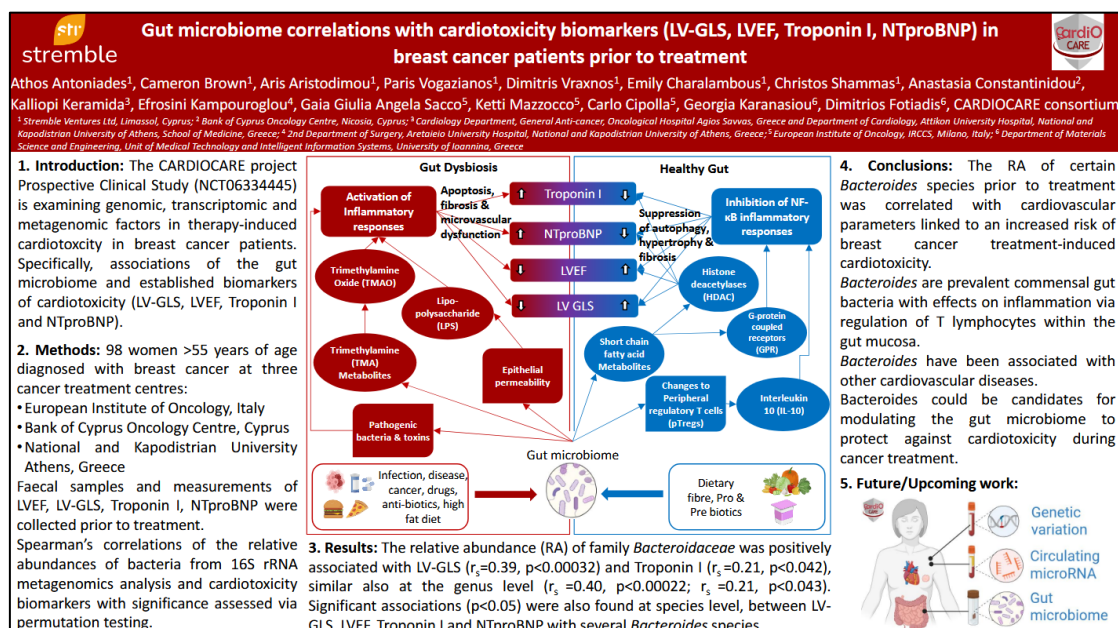


Figure 14: Poster for ESC Cardio-Oncology 2025

## 4 Dissemination Activities

### 4.1 Dissemination Activities by Category

#### 4.1.1 Publications in Scientific Journals

Table 6: Performed publications in scientific journals, M31-M48.

Activity No.	Partner	Journal	Month	Title	DOI
<b>P.1</b>	IEO	JMIR Research Protocols	M44	An interdisciplinary ecosystem for the psychosocial and behavioural management of Cardiotoxicity in elderly breast cancer patient: a prospective clinical study	<a href="http://dx.doi.org/10.2196/preprints.63455">http://dx.doi.org/10.2196/preprints.63455</a>
<b>P.2</b>	HMU	IEEE EMBS 2025	M43	A Review on Deep Learning for Quality of Life Assessment Through the Use of Wearable Data	<a href="https://doi.org/10.1109/OJEMB.2025.3526457">https://doi.org/10.1109/OJEMB.2025.3526457</a>
<b>P.3</b>	HMU	European Heart Journal – Cardiovascular Imaging	M43	Association of echocardiographic radiomics-based features with cardiotoxicity effect in breast cancer patients from the CARDIOCARE project	<a href="https://doi.org/10.1093/ehjci/iae333.028">https://doi.org/10.1093/ehjci/iae333.028</a>
<b>P.4</b>	UOI	Cancers	M47	Impact of e-Health Interventions on Mental Health and Quality of Life in Breast Cancer Patients: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	<a href="https://doi.org/10.3390/cancers17111780">https://doi.org/10.3390/cancers17111780</a>
<b>P.5</b>	HMU	EAI Endorsed Transactions on Pervasive Health and Technology	M48	Towards PTSD Diagnosis Through ECG Anomaly Detection based on Autoencoders	<a href="http://dx.doi.org/10.4108/eetpht.11.9463">http://dx.doi.org/10.4108/eetpht.11.9463</a>

## 4.1.2 Conferences Activities

Table 7: Performed conference activities, M31-M48.

Activity No.	Partner	Conference	Month	Scope/Placeholder title
<b>C.1</b>	NKUA	7th Hellenic Congress of Oncology <a href="https://www.eso2024.gr/">https://www.eso2024.gr/</a> (in Greek)	M34	<i>Invited presentation (by Dr. Kalliopi Keramida):</i> The effect of gender on the risk of cardiotoxicity
<b>C.2</b>	NKUA	Cardiovascular Imaging Congress <a href="https://www.medevents.gr/congress/acvi24">https://www.medevents.gr/congress/acvi24</a>	M34	<i>Invited presentation (by Dr. Kalliopi Keramida):</i> Monitoring cardiovascular complications during cancer therapy
<b>C.3</b>	NKUA	Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’” <a href="https://cardiocare-project.eu/wp-content/uploads/2024/05/Program-KATH-ODON-2024-1.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/05/Program-KATH-ODON-2024-1.pdf</a> (in Greek)	M35	<i>Invited presentation (by Dr. Kalliopi Keramida):</i> Cardio-oncology – a self-evident necessity
<b>C.4</b>	NKUA	Panhellenic Congress “New Drugs in Oncology: from research to practice” <a href="https://cardiocare-project.eu/wp-content/uploads/2024/05/2024_05_16-18_NewDrugsOncology_program.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/05/2024_05_16-18_NewDrugsOncology_program.pdf</a> (in Greek)	M35	<i>Invited presentation (by Dr. Kalliopi Keramida):</i> Cardiotoxicity and management
<b>C.5</b>	NKUA	Panhellenic Congress “Heart Failure from A to Z, latest advances 2024” <a href="https://cardiocare-project.eu/wp-content/uploads/2024/05/Heart-Failure_FINAL.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/05/Heart-Failure_FINAL.pdf</a> (in Greek)	M35	<i>Invited presentation (by Dr. Petros Nikolopoulos):</i> The role of biomarkers in the evaluation and monitoring of the oncology patient” in the Round Table “Onco-Cardiology, from A to Z

<b>C.6</b>	IEO	IncontraDonna <sup>1</sup> Conference “Care through Listening, Network, Transdisciplinarity, Empathy”	M36	<u>Invited presentation (by Prof. Ketti Mazzocco):</u> A dedicated segment on CARDIOCARE was presented, emphasizing the significance of the CARDIOCARE clinical trial in advancing preventive measures and management strategies for breast cancer within the realm of cardio-oncology.
<b>C.7</b>	UOI	Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment <a href="https://cardiocare-project.eu/wp-content/uploads/2024/06/Agenda-Conference.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/06/Agenda-Conference.pdf</a> (in Greek)	M36	<u>Invited presentation (by Dr. Vasileios Bouratzis):</u> Application of AI in Cardio-Oncology: the CARDIOCARE project
<b>C.8</b>	UOI, NKUA	2nd Congress Heart and Cancer <a href="https://cardiocare-project.eu/wp-content/uploads/2024/07/Heart_and_Cancer-QRP.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/07/Heart_and_Cancer-QRP.pdf</a> (in Greek)	M37	<u>Invited presentation (by Prof. Dimitrios Fotiadis)</u> Artificial intelligence in prediction and early detection of cardiotoxicity (CARDIOCARE)
<b>C.9</b>	HMU	EMBC 2024	M37	<u>Abstract &amp; poster presentation (by Vasilis Skaramagkas):</u> Autoencoder-Based ECG Analysis: Advancing PTSD Diagnosis through Anomaly Detection
<b>C.10</b>	ESC	ESC Congress 2024 <a href="https://esc365.escardio.org/ESC-Congress/sessions/12198">https://esc365.escardio.org/ESC-Congress/sessions/12198</a>	M38	<u>Scientific session organization:</u> Preventing breast cancer cardiotoxicity with CARDIOCARE

<sup>1</sup> IncontraDonna is a non-profit organization based in Rome, Italy, established in 2008. It is dedicated to advocating women’s health—especially breast cancer prevention and care—while also supporting broader public health initiatives.

<b>C.11</b>	NKUA	ESC Congress 2024	M38	<i>Invited presentation (by Dr. Kalliopi Keramida)</i> Breast cancer and cardiotoxicity: an update
<b>C.12</b>	UOI	ESC Congress 2024	M38	<i>Invited presentation (by Prof. Dimitrios Fotiadis)</i> CARDIOCARE: an interdisciplinary approach for the management of the elderly multimorbid patient with breast cancer therapy-induced cardiac toxicity
<b>C.13</b>	UOI	45th Hellenic Congress of Cardiology	M40	Outreach poster
<b>C.14</b>	NKUA	Panhellenic Congress “5 <sup>th</sup> Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management”	M40	<i>Invited presentation (by Dr Dorothea Tsekoura)</i> Full presentation of the CARDIOCARE Project
<b>C.15</b>	UOI	22nd International Symposium on Medical Devices and Biosensors (MDBS 2024) <a href="https://www.aemworld.org/mdbbs-bhe-2024">https://www.aemworld.org/mdbbs-bhe-2024</a>	M41	<i>Invited presentation (by Prof. Dimitrios Fotiadis)</i> Advanced AI-based Risk Stratification Models Pioneering Integrative Management of Cardiotoxicity in Elderly Breast Cancer Patients
<b>C.16</b>	FORTH, UOI	EuroEcho-Imaging 2024 <a href="https://esc365.escardio.org/euroecho">https://esc365.escardio.org/euroecho</a>	M42	<i>Abstract &amp; poster presentation (by Dr. Labros Lakkas):</i> Association of Echocardiographic Radiomics-based Features with Cardiotoxicity Effect in Breast Cancer Patients from the CARDIOCARE Project
<b>C.17</b>	NKUA	26th Panhellenic Congress for Heart Failure <a href="https://cardiocare-project.eu/wp-content/uploads/2025/02/Program-26th-Heart-Failure-Congress.pdf">https://cardiocare-project.eu/wp-content/uploads/2025/02/Program-26th-Heart-Failure-Congress.pdf</a> (in Greek)	M44	<i>Invited presentation (by Dr. Kalliopi Keramida):</i> Preventing Heart Failure in the Oncology Patient: Are There Any New Data?

<b>C.18</b>	UOI	<p>“Heart Failure and Cancer – Updates 2025” Congress</p> <p><a href="https://cardiocare-project.eu/wp-content/uploads/2025/05/Heart-Failure-and-Cancer-Updates-2025.pdf">https://cardiocare-project.eu/wp-content/uploads/2025/05/Heart-Failure-and-Cancer-Updates-2025.pdf</a> (in Greek)</p>	M47	<p><i>Invited presentation (by Prof. Dimitrios Fotiadis):</i></p> <p>Wearable Devices and AI in Heart-Failure and Cardio-Oncology</p>
<b>C.19</b>	ESC	<p>ESC Cardio-Oncology 2025</p> <p><a href="https://esc365.escardio.org/Cardio-Oncology/sessions/14319-cardiocare-interdisciplinary-approaches-to-managing-cardiotoxicity-in-older-breast-cancer-patients">https://esc365.escardio.org/Cardio-Oncology/sessions/14319-cardiocare-interdisciplinary-approaches-to-managing-cardiotoxicity-in-older-breast-cancer-patients</a></p>	M48	<p><i>Symposium organization:</i></p> <p>CARDIOCARE: Interdisciplinary Approaches to Managing Cardiotoxicity in Older Breast Cancer Patients</p>
<b>C.20</b>	NKUA	ESC Cardio-Oncology 2025	M48	<p><i>Invited presentation (by Dr. Kalliopi Keramida):</i></p> <p>Frailty in cardio-oncology: assessing risks and improving outcomes</p>
<b>C.21</b>	UOI	ESC Cardio-Oncology 2025	M48	<p><i>Invited presentation (by Prof. Dimitrios Fotiadis):</i></p> <p>Integrating eHealth and biomarkers for personalized management of cancer therapy-induced cardiotoxicity</p>
<b>C.22</b>	STREMBLE	ESC Cardio-Oncology 2025	M48	<p><i>Poster presentation:</i></p> <p>Gut microbiome correlations with cardiotoxicity biomarkers (LV-GLS, LVEF, Troponin I, NTproBNP) in breast cancer patients prior to treatment</p>

#### 4.1.3 Events/Exhibitions

Table 8: Performed activities in Events/Exhibitions, M31-M48.

Activity No.	Partner	Event/Exhibition details	Month	Event Scope
<b>E.1</b>	STREMBLE	Dr. Athos Antoniadis gave a lecture regarding the state of molecular research in Cyprus and its impact on	M32	Medical and Scientific Community



		clinical practice at the Medical School of the University of Cyprus. CARDIOCARE was presented, along with other 2 projects, all utilizing at least in part Cypriot patients and molecular testing.		
<b>E.2</b>	UOI	CARDIOCARE was represented at the Innovent Forum through a dedicated exhibition stand, showcasing the project's objectives and activities.	M32	Scientific Community
<b>E.3</b>	ESC	CARDIOCARE presented in the ESC Spring Summit 2024	M33	Medical and Scientific Community
<b>E.4</b>	STREMBLE	CARDIOCARE presented in the event titled “Scientific leadership in international projects and opportunities to collaborate with a Cyprus-based Biotech company” organized by βιοC-Society of Biological Sciences in Cyprus in the University of Cyprus	M33	Medical and Scientific Community
<b>E.5</b>	ESC	Organization of the workshop <i>“Navigating the Regulatory Landscape in Cardiovascular Health”</i>  Agenda: <a href="https://cardiocare-project.eu/wp-content/uploads/2024/06/CARDIOCAR-E-Regulatory-Workshop-18-06-2024.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/06/CARDIOCAR-E-Regulatory-Workshop-18-06-2024.pdf</a>	M36	Guideline producers, regulatory experts and policy makers
<b>E.6</b>	FORTH	Presentation in the CARDIOCARE Regulatory Workshop titled <i>“Tele-health Systems and Risk Stratification in CARDIOCARE”</i>	M36	Guideline producers, regulatory experts and policy makers
<b>E.7</b>	IMS	Presentation in the CARDIOCARE Regulatory Workshop titled <i>“Medical devices in Cardiovascular Health in CARDIOCARE”</i>	M36	Guideline producers, regulatory experts and policy makers
<b>E.8</b>	PHILIPS	Presentation in the CARDIOCARE Regulatory Workshop titled <i>“Big Data, Artificial Intelligence, and the AI Act in CARDIOCARE”</i>	M36	Guideline producers, regulatory experts and policy makers



<b>E.9</b>	UOI	CARDIOCARE participated in the InnoHealth Satellite Event #3 “Women health & FemTech”  <a href="https://joistpark.eu/en/events/innohealth-satellite-event-3/">https://joistpark.eu/en/events/innohealth-satellite-event-3/</a>	M37	Scientific Community
<b>E.10</b>	UOI	CARDIOCARE participated in the InnoHealth Satellite Event #4, titled “Chronic Patients in the Digital Age”, with a presentation by Dr. Georgia Karanasiou on “Monitoring and Management of Quality of Life in Cardiotoxicity”  <a href="https://joistpark.eu/en/events/innohealth-satellite-event-4/">https://joistpark.eu/en/events/innohealth-satellite-event-4/</a>	M37	Scientific Community
<b>E.11</b>	UOI	CARDIOCARE was presented in the Roundtable “ <i>Digital Health</i> ” by Prof. Dimitrios Fotiadis in the 1st Greek Forum on Cancer: Policy, Research & Funding Strategies.	M37	Scientific Community
<b>E.12</b>	HMU	CARDIOCARE was presented in the Roundtable “ <i>European Health Data Space – EHDS</i> ” by Prof. Manolis Tsiknakis in the 1st Greek Forum on Cancer: Policy, Research & Funding Strategies.	M37	Scientific Community
<b>E.13</b>	UOI	CARDIOCARE participated in a significant event organized by the Department of Nursing at the University of Ioannina, Greece, aimed at raising awareness about breast cancer prevention.	M40	Breast Cancer patients, Civil Society
<b>E.14</b>	UOI	CARDIOCARE participated in the event “ <i>Breast Cancer from Ancient Times to Today: Narratives – Illustrations – Answers</i> ”.	M40	Medical Community, Civil Society
<b>E.15</b>	BOCOC	CARDIOCARE organized a special event titled “Research on Breast Cancer – CARDIOCARE”, in partnership with EUROPA DONNA Cyprus, to disseminate findings and developments from the project.	M40	Medical Community, Breast Cancer patients, Civil Society
<b>E.16</b>	FORTH	CARDIOCARE participated in 14th FORTH Scientific Retreat with a presentation titled “Deep Learning-	M40	Scientific Community

		based Automated Assessment of Reduced Left Ventricular Ejection Fraction by Echocardiography”.		
<b>E.17</b>	NKUA	CARDIOCARE participated in the 5th Scientific event titled “Breast Cancer and the Contemporary Challenges in Clinical Management” with a presentation titled “CARDIOCARE project: Early Detection of Cardiotoxicity” during the session titled “Strength in Unity – Cardio-Oncology”.	M42	Scientific Community
<b>E.18</b>	UOI	CARDIOCARE presentation “AI-driven insights in the cancer therapy continuum” for the 22nd International Summer Academy on AI in Healthcare, Medicine, and Biology presented by Prof. Fotiadis	M48	Medical and Scientific Community

#### 4.1.4 Collaboration with other Projects

Table 9: Performed clustering activities, M31-M48.

Activity No.	Partner	Project title	Month	Objective
<b>CB.1</b>	HMU, UOI	PREFERABLE GA 825677  <a href="https://www.h2020preferable.eu">https://www.h2020preferable.eu</a>	M35	Key areas of interest: improve the healthcare/ pathways for improving the quality of life for patients with metastatic Breast Cancer  5th Newsletter hosted an article for the PREFERABLE project
<b>CB.2</b>	HMU, UOI	ESCAPE GA 945377  <a href="https://escape-project.org/">https://escape-project.org/</a>	M36	Key areas of interest: integrated, personalized care for elderly multimorbid patients with chronic heart failure and psychosocial distress  Online collaboration and mutual visibility with the ESCAPE project through likes, shares, and reposts on social media
<b>CB.3</b>	HMU, UOI	4D PICTURE GA 101057332  <a href="https://4dpicture.eu/">https://4dpicture.eu/</a>	M36	Key areas of interest: redesign on healthcare pathways and improvement of decision-making for cancer patients  Engagement with the 4D PICTURE project to explore areas of alignment and lay the groundwork for a more structured partnership

<b>CB.4</b>	HMU, UOI	ODELIA GA 101057091  <a href="http://www.odelia.ai/">http://www.odelia.ai/</a>	M36	Key areas of interest: use of AI models in breast cancer research  Engagement with the ODELIA project to explore areas of alignment and lay the groundwork for a more structured partnership
<b>CB.5</b>	HMU, UOI	IMMUcan GA 821558  <a href="https://immucan.eu">https://immucan.eu</a>	M36	Key areas of interest: sequencing on Breast Cancer  Engagement with the IMMUCan project to explore areas of alignment and lay the groundwork for a more structured partnership
<b>CB.6</b>	HMU, UOI	RESILENCE GA 945118  <a href="https://resilience-h2020.com/">https://resilience-h2020.com/</a>	M36	Key areas of interest: heart failure, cancer, cardiotoxicity, cardioprotection, cardio-oncology  Engagement with the RESILENCE project to explore areas of alignment and lay the groundwork for a more structured partnership
<b>CB.7</b>	HMU, UOI	MyPeBS GA 755394  <a href="https://www.mypebs.eu">https://www.mypebs.eu</a>	M36	Key areas of interest: personalized, risk-based breast cancer screening trial.  Engagement with the MyPeBS project to explore areas of alignment and lay the groundwork for a more structured partnership
<b>CB.8</b>	HMU, UOI	FAITH GA 101135932  <a href="https://faith-ec-project.eu">https://faith-ec-project.eu</a>	M36	Key areas of interest: trustworthy AI systems in healthcare  Engagement with the FAITH project to explore areas of alignment and lay the groundwork for a more structured partnership
<b>CB.9</b>	HMU, UOI	EUCAIM GA 101100633  <a href="https://cancerimage.eu">https://cancerimage.eu</a>	M36	Key areas of interest: AI tools to enhance cancer diagnosis and precision medicine  Engagement with the EUCAIM project to explore areas of alignment and lay the groundwork for a more structured partnership

<b>CB.10</b>	HMU, UOI, STREMBLE	COMFORTAGE GA 101137301  <a href="https://comfortage.eu/">https://comfortage.eu/</a>	M36	Key areas of interest: AI-enabled platform for community-based, personalized prevention, monitoring, and intervention in dementia and frailty  Engagement with the COMFORTAGE project to explore areas of alignment and lay the groundwork for a more structured partnership
<b>CB.11</b>	HMU, UOI, STREMBLE	Cyprusgenome.org  <a href="https://www.cyp rusgenome.org/">https://www.cyp rusgenome.org/</a>	M36	Key areas of interest: Genetic characterization of the Cypriot population  Engagement with the Cyprusgenome.org project to explore areas of alignment and lay the groundwork for a more structured partnership

#### 4.1.5 Press Releases & Public Outreach

Table 10: Published Press Releases & Public Outreach, M31-M48.

Activity No.	Partner	URL / Details	Month
<b>PR.1</b>	NKUA	Dr. Dorothea Tsekoura and Dr. Kalliopi Keramida discussed the role of women in cardio-oncology and provided a brief presentation of the CARDIOCARE project during their appearance on the Greek television program 'Health Above All' aired on ANT1 channel.	M33
<b>PR.2</b>	NKUA	The article 'Women, Cancer and the Heart: What Every Woman Needs to Know', available at this link [ <a href="https://cardiocare-project.eu/news/women-cancer-and-the-heart-what-every-woman-needs-to-know/">https://cardiocare-project.eu/news/women-cancer-and-the-heart-what-every-woman-needs-to-know/</a> ], was authored by Dr. Kalliopi Keramida on the occasion of International Women's Day and was shared through the project's social media channels.	M45
<b>PR.3</b>	ESC, UOI	Clinical trial of innovative health app reimagines care for elderly women with breast cancer therapy induced cardiac toxicity  <a href="https://www.escardio.org/The-ESC/Press-Office/Press-releases/clinical-trial-of-innovative-health-app-reimagines-care-for-elderly-women-with-b">https://www.escardio.org/The-ESC/Press-Office/Press-releases/clinical-trial-of-innovative-health-app-reimagines-care-for-elderly-women-with-b</a>	M48
<b>PR.4</b>	ESC, STREMBLE	Breast cancer patients' microbiome may hold key to avoiding damaging heart side-effects of cancer therapies  <a href="https://www.escardio.org/The-ESC/Press-Office/Press-releases/breast-cancer-patients-microbiome-may-hold-key-to-avoiding-damaging-heart-side#">https://www.escardio.org/The-ESC/Press-Office/Press-releases/breast-cancer-patients-microbiome-may-hold-key-to-avoiding-damaging-heart-side#</a>	M48

#### 4.1.6 Newsletters

In the reporting period, the 5th newsletter has been released. Newsletters are published on the site and are downloadable in PDF format. To facilitate communication, the newsletters were sent to the consortium via email and shared on social media channels. They are also sent out to identified stakeholders (organizations and groups) and to individuals who sign up via the website to receive the project newsletters.

Table 11: Released newsletters M31-M48.

Activity No.	Partner	Details / URL	Month
<b>NW.1</b>	HMU & UOI	5th CARDIOCARE newsletter. The contributor partners for the 5th newsletter were: HMU, UOI, KSBC <a href="https://cardiocare-project.eu/wp-content/uploads/2024/11/%CE%9D%CE%95W_CardioCare_newsletter_SPRING24.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/11/%CE%9D%CE%95W_CardioCare_newsletter_SPRING24.pdf</a>	M35

#### 4.1.7 Presentation Material

Table 12: Produced presentation material, M31-M48.

Activity No.	Partner	Type of presentation material	Month
<b>PM.1</b>	HMU	CARDIOCARE report (in English) <a href="https://cardiocare-project.eu/wp-content/uploads/2024/07/The-CARDIOCARE-project-Report.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/07/The-CARDIOCARE-project-Report.pdf</a>	M33
<b>PM.2</b>	UOI, HMU	CARDIOCARE Brochure #2 (in English) <a href="https://cardiocare-project.eu/wp-content/uploads/2024/06/Cardiocare_Brochure_A4_final_June2024.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/06/Cardiocare_Brochure_A4_final_June2024.pdf</a>	M36

#### 4.1.8 Videos/Podcasts

Table 13: Produced videos/podcasts, M31-M48.

Activity No.	Partner	URL / Details	Month
<b>VD.1</b>	NKUA	The CARDIOCARE project on the Greek TV show “Health above all” <a href="https://www.youtube.com/watch?v=MuoGRtFVhms">https://www.youtube.com/watch?v=MuoGRtFVhms</a> (in Greek)	M33
<b>VD.2</b>	ESC	The CARDIOCARE regulatory workshop – Navigating the Regulatory Landscape in Cardiovascular Health <a href="https://www.youtube.com/watch?v=absVyX2IWdM">https://www.youtube.com/watch?v=absVyX2IWdM</a>	M36

<b>VD.3</b>	BOCOC, HMU	A patient from BOCOC describes her experience of participating in CARDIOCARE clinical study <a href="https://www.youtube.com/watch?v=g1JFUP7IoXQ">https://www.youtube.com/watch?v=g1JFUP7IoXQ</a>	M37
<b>VD.4</b>	UOI	Dr. Georgia Karanasiou - Monitoring and Management of Quality of Life in Cardiotoxicity <a href="https://www.youtube.com/watch?v=f3MCgfaL2LE">https://www.youtube.com/watch?v=f3MCgfaL2LE</a>	M37

#### 4.1.9 Other Activities

Activity No.	Partner	Activity details details	Month	Event Scope
<b>OT.1</b>	UOI	COCOMAT, a Greek company known for producing sustainable, natural sleep products, offered of heart-shaped pillows to the patients that participate in the clinical trial of CARDIOCARE in the University Hospital of Ioannina and Aretaeio University Hospital. The action took place within the framework of the <a href="#">Pillow Positive Project</a> that aims to support women who have undergone breast cancer surgery since 2012, as part of its social responsibility.	M32	Patients

## 4.2 Dissemination Activities per Partner

In the following tables, the completed dissemination activities per partner are presented.

### 4.2.1 UOI

Table 14: Completed dissemination activities for UOI.

Activity No.	Activity type	Details	Month
<b>1</b>	<b>P.4 Publication in scientific journal</b>	Impact of e-Health Interventions on Mental Health and Quality of Life in Breast Cancer Patients: A Systematic Review and Meta-Analysis of Randomized Controlled Trials <a href="https://doi.org/10.3390/cancers17111780">https://doi.org/10.3390/cancers17111780</a>	M47
<b>2</b>	<b>C.7 Conference activity</b>	Invited presentation “Application of AI in Cardio-Oncology: the CARDIOCARE project” in the Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment”	M36

<b>3</b>	<b>C.8 Conference activity</b>	Invited presentation “Artificial intelligence in prediction and early detection of cardiotoxicity (CARDIOCARE)” in the 2nd Congress Heart and Cancer (joint activity with NKUA)	M37
<b>4</b>	<b>C.12 Conference activity</b>	Invited presentation “CARDIOCARE: an interdisciplinary approach for the management of the elderly multimorbid patient with breast cancer therapy-induced cardiac toxicity” in the ESC Congress 2024	M38
<b>5</b>	<b>C.13 Conference activity</b>	Outreach poster in the 45th Hellenic Congress of Cardiology	M40
<b>6</b>	<b>C.15 Conference activity</b>	Invited presentation “Advanced AI-based Risk Stratification Models Pioneering Integrative Management of Cardiotoxicity in Elderly Breast Cancer Patients” in the 22nd International Symposium on Medical Devices and Biosensors (MDBS 2024)	M41
<b>7</b>	<b>C.16 Conference activity</b>	Abstract & poster presentation “Association of Echocardiographic Radiomics-based Features with Cardiotoxicity Effect in Breast Cancer Patients from the CARDIOCARE Project” in EuroEcho-Imaging 2024 (joint activity with FORTH)	M42
<b>8</b>	<b>C.18 Conference activity</b>	Invited presentation “Wearable Devices and AI in Heart-Failure and Cardio-Oncology” in the “Heart Failure and Cancer – Updates 2025” Congress	M47
<b>9</b>	<b>C.21 Conference activity</b>	Invited presentation “Integrating eHealth and biomarkers for personalized management of cancer therapy-induced cardiotoxicity” in ESC Cardio-Oncology 2025	M48
<b>10</b>	<b>E.2 Event</b>	CARDIOCARE was represented at the Innovent Forum through a dedicated exhibition stand, showcasing the project's objectives and activities.	M32
<b>11</b>	<b>E.9 Event</b>	CARDIOCARE participated in the InnoHealth Satellite Event #3 “Women health & FemTech”	M37
<b>12</b>	<b>E.10 Event</b>	CARDIOCARE participated in the InnoHealth Satellite Event #4, titled “Chronic Patients in the Digital Age”, with a presentation by Dr. Georgia Karanasiou on “Monitoring and Management of Quality of Life in Cardiotoxicity”	M37
<b>13</b>	<b>E.11 Event</b>	CARDIOCARE was presented in the Roundtable “Digital Health” by Prof. Dimitrios Fotiadis in the 1st Greek Forum on Cancer: Policy, Research & Funding Strategies.	M37

14	<b>E.13 Event</b>	CARDIOCARE participated in a significant event organized by the Department of Nursing at the University of Ioannina, Greece, aimed at raising awareness about breast cancer prevention.	M40
15	<b>E.14 Event</b>	CARDIOCARE participated in the event “Breast Cancer from Ancient Times to Today: Narratives – Illustrations – Answers”.	M40
16	<b>E.18 Event</b>	CARDIOCARE presentation “AI-driven insights in the cancer therapy continuum” for the 22nd International Summer Academy on AI in Healthcare, Medicine, and Biology presented by Prof. Fotiadis	M48
17	<b>CB.1 Collaboration with other project</b>	5th Newsletter hosted an article for the PREFERABLE project (joint activity with HMU)	M35
18	<b>CB.2 Collaboration with other project</b>	Online collaboration and mutual visibility with the ESCAPE project through likes, shares, and reposts on social media (joint activity with HMU)	M36
19	<b>CB.3 Collaboration with other project</b>	Engagement with the 4D PICTURE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
20	<b>CB.4 Collaboration with other project</b>	Engagement with the ODELIA project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
21	<b>CB.5 Collaboration with other project</b>	Engagement with the IMMUCan project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
22	<b>CB.6 Collaboration with other project</b>	Engagement with the RESILIENCE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
23	<b>CB.7 Collaboration with other project</b>	Engagement with the MyPeBS project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
24	<b>CB.8 Collaboration with other project</b>	Engagement with the FAITH project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
25	<b>CB.9 Collaboration with other project</b>	Engagement with the EUCAIM project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU)	M36
26	<b>CB.10 Collaboration with other project</b>	Engagement with the COMFORTAGE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU and STREMBLE)	M42



27	<b>CB.11 Collaboration with other project</b>	Engagement with the Cyprusgenome.orgproject to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with HMU and STREMBLE)	M42
28	<b>PR.3 Press Release &amp; Public Outreach</b>	“Clinical trial of innovative health app reimagines care for elderly women with breast cancer therapy induced cardiac toxicity” (joint activity with ESC)	M48
29	<b>NW.1 Newsletter</b>	Newsletter #5 (joint activity with HMU and other CARDIOCARE partners)	M35
30	<b>PM.2 Presentation material</b>	CARDIOCARE Brochure #2 (in English) (joint activity with HMU)	M36
31	<b>VD.4 Video</b>	Dr. Georgia Karanasiou - Monitoring and Management of Quality of Life in Cardiotoxicity <a href="https://www.youtube.com/watch?v=f3MCgfaL2LE">https://www.youtube.com/watch?v=f3MCgfaL2LE</a>	M37
32	<b>OT.1 Other activity</b>	COCOMAT, a Greek company known for producing sustainable, natural sleep products, offered of heart-shaped pillows to the patients that participate in the clinical trial of CARDIOCARE in the University Hospital of Ioannina and Aretaio University Hospital. The action took place within the framework of the <a href="#">Pillow Positive Project</a> that aims to support women who have undergone breast cancer surgery since 2012, as part of its social responsibility.	M32

## 4.2.2 IEO

Table 15: Completed dissemination activities for IEO.

Activity No.	Activity type	Details	Month
1	<b>P.1 Publication in scientific journal</b>	An interdisciplinary ecosystem for the psychosocial and behavioural management of Cardiotoxicity in elderly breast cancer patient: a prospective clinical study <a href="http://dx.doi.org/10.2196/preprints.63455">http://dx.doi.org/10.2196/preprints.63455</a>	M44
2	<b>C.6 Conference activity</b>	A dedicated segment on CARDIOCARE was presented in the IncontraDonna Conference “Care through Listening, Network, Transdisciplinarity, Empathy”, emphasizing the significance of the CARDIOCARE clinical trial in advancing preventive measures and management strategies for breast cancer within the realm of cardio-oncology.	M36

## 4.2.3 BOCOC

Table 16: Completed dissemination activities for BOCOC.

Activity No.	Activity type	Details	Month
1	E.15 Event	CARDIOCARE organized a special event titled “Research on Breast Cancer – CARDIOCARE”, in partnership with EUROPA DONNA Cyprus, to disseminate findings and developments from the project.	M40
2	VD.3 Video	A patient from BOCOC describes her experience of participating in CARDIOCARE clinical study <a href="https://www.youtube.com/watch?v=g1JFUP7IoXQ">https://www.youtube.com/watch?v=g1JFUP7IoXQ</a> (joint activity with HMU)	M37

## 4.2.4 FORTH

Table 17: Completed dissemination activities for FORTH.

Activity No.	Activity type	Details	Month
1	C.16 Conference activity	Abstract & poster presentation “Association of Echocardiographic Radiomics-based Features with Cardiotoxicity Effect in Breast Cancer Patients from the CARDIOCARE Project” in EuroEcho-Imaging 2024 (joint activity with UOI)	M42
2	E.6 Event	Presentation “Tele-health Systems and Risk Stratification in CARDIOCARE” in the CARDIOCARE Regulatory Workshop	M36
3	E.16 Event	CARDIOCARE participated in 14th FORTH Scientific Retreat with a presentation titled “Deep Learning-based Automated Assessment of Reduced Left Ventricular Ejection Fraction by Echocardiography”.	M40

## 4.2.5 IMS

Table 18: Completed dissemination activities for IMS.

Activity No.	Activity type	Details	Month
1	E.7 Event	Presentation “Medical devices in Cardiovascular Health in CARDIOCARE” in the CARDIOCARE Regulatory Workshop	M36

## 4.2.6 PHILIPS

Table 19: Completed dissemination activities for PHILIPS.

Activity No.	Activity type	Details	Month
1	E.8 Event	Presentation “Big Data, Artificial Intelligence, and the AI Act in CARDIO CARE” in the CARDIO CARE Regulatory Workshop	M36

## 4.2.7 KSBC

Table 20: Completed dissemination activities for PHILIPS.

Activity No.	Activity type	Details	Month
1	NW.1 Newsletter	Contribution to the 5th newsletter with an article “What is the experience of a young researcher of participating in a European project with great impact on healthcare like CARDIO CARE? An interview with Dr. Maria-Angeliki Tolli, MD”	M35

## 4.2.8 STREMBLE

Table 21: Completed dissemination activities for STREMBLE.

Activity No.	Activity type	Details	Month
1	C.22 Conference activity	Poster presentation “Gut microbiome correlations with cardiotoxicity biomarkers (LV-GLS, LVEF, Troponin I, NTproBNP) in breast cancer patients prior to treatment” in ESC Cardio-Oncology 2025	M48
2	E.1 Event	Dr. Athos Antoniadis gave a lecture regarding the state of molecular research in Cyprus and its impact on clinical practice at the Medical School of the University of Cyprus. CARDIO CARE was presented, along with other 2 projects, all utilizing at least in part Cypriot patients and molecular testing.	M32
3	E.4 Event	CARDIO CARE presented in the event titled “Scientific leadership in international projects and opportunities to collaborate with a Cyprus-based Biotech company” organized by βιοC-Society of Biological Sciences in Cyprus in the University of Cyprus	M33
4	CB.10 Collaboration with other project	Engagement with the COMFORTAGE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI and HMC)	M42

5	<b>CB.11 Collaboration with other project</b>	Engagement with the Cyprusgenome.orgproject to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI and HMU)	M42
6	<b>PR.3 Press Release&amp; Public Outreach</b>	“Breast cancer patients’ microbiome may hold key to avoiding damaging heart side-effects of cancer therapies” (joint activity with ESC)	M48

## 4.2.9 NKUA

Table 22: Completed dissemination activities for NKUA.

Activity No.	Activity type	Details	Month
1	<b>C.1 Conference activity</b>	Invited presentation “The effect of gender on the risk of cardiotoxicity” in the 7th Hellenic Congress of Oncology	M34
2	<b>C.2 Conference activity</b>	Invited presentation “Monitoring cardiovascular complications during cancer therapy” in the Cardiovascular Imaging Congress	M34
3	<b>C.3 Conference activity</b>	Invited presentation “Cardio-oncology – a self-evident necessity” in the Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’”	M35
4	<b>C.4 Conference activity</b>	Invited presentation “Cardiotoxicity and management” in the Panhellenic Congress “New Drugs in Oncology: from research to practice”	M35
5	<b>C.5 Conference activity</b>	Invited presentation “The role of biomarkers in the evaluation and monitoring of the oncology patient” in the Round Table “Onco-Cardiology, from A to Z” in the Panhellenic Congress “Heart Failure from A to Z, latest advances 2024”	M35
6	<b>C.8 Conference activity</b>	Invited presentation “Artificial intelligence in prediction and early detection of cardiotoxicity (CARDIOCARE)” in the 2nd Congress Heart and Cancer (joint activity with UOI)	M37
7	<b>C.11 Conference activity</b>	Invited presentation “Breast cancer and cardiotoxicity: an update” in the ESC Congress 2024	M38
8	<b>C.14 Conference activity</b>	Panhellenic Congress “5 <sup>th</sup> Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management”	M40
9	<b>C.17 Conference activity</b>	Invited presentation “Preventing Heart Failure in the Oncology Patient: Are There Any New Data?” in the 26th Panhellenic Congress for Heart Failure	M44

10	<b>C.20 Conference activity</b>	Invited presentation “Frailty in cardio-oncology: assessing risks and improving outcomes” in ESC Cardio-Oncology 2025	M48
11	<b>E.17 Event</b>	CARDIOCARE participated in the 5th Scientific event titled “Breast Cancer and the Contemporary Challenges in Clinical Management” with a presentation “CARDIOCARE project: Early Detection of Cardiotoxicity” during the session titled “Strength in Unity – Cardio-Oncology”	M42
12	<b>PR.1 Press Release &amp; Public Outreach</b>	Dr. Dorothea Tsekoura and Dr. Kalliopi Keramida discussed the role of women in cardio-oncology and provided a brief presentation of the CARDIOCARE project during their appearance on the Greek television program 'Health Above All' aired on ANT1 channel.	M33
13	<b>PR.2 Press Release &amp; Public Outreach</b>	The article 'Women, Cancer and the Heart: What Every Woman Needs to Know’ was authored by Dr. Kalliopi Keramida on the occasion of International Women's Day and was shared through the project's social media channels.	M45
14	<b>VD.1 Video</b>	The CARDIOCARE project on the Greek TV show “Health above all” <a href="https://www.youtube.com/watch?v=MuoGRtFVhms">https://www.youtube.com/watch?v=MuoGRtFVhms</a> (in Greek)	M33

## 4.2.10 ESC

Table 23: Completed dissemination activities for ESC.

Activity No.	Activity type	Details	Month
1	<b>C.10 Conference activity</b>	Scientific session organization titled “Preventing breast cancer cardiotoxicity with CARDIOCARE” in the ESC Congress 2024	M38
2	<b>C.19 Conference activity</b>	Symposium organization “CARDIOCARE: Interdisciplinary Approaches to Managing Cardiotoxicity in Older Breast Cancer Patients” in ESC Cardio-Oncology 2025	M48
3	<b>E.3 Event</b>	CARDIOCARE presented in the ESC Spring Summit 2024	M33
4	<b>E.5 Event</b>	Organization of the workshop “Navigating the Regulatory Landscape in Cardiovascular Health”	M36
5	<b>PR.3 Press Release &amp; Public Outreach</b>	“Clinical trial of innovative health app reimagines care for elderly women with breast cancer therapy induced cardiac toxicity” (joint activity with UOI)	M48

6	<b>PR.3 Press Release &amp; Public Outreach</b>	“Breast cancer patients’ microbiome may hold key to avoiding damaging heart side-effects of cancer therapies” (joint activity with STREMBLE)	M48
7	<b>VD.2 Video</b>	The CARDIOCARE regulatory workshop – Navigating the Regulatory Landscape in Cardiovascular Health <a href="https://www.youtube.com/watch?v=absVyX2IWdM">https://www.youtube.com/watch?v=absVyX2IWdM</a>	M36

## 4.2.11 HMU

Table 24: Completed dissemination activities for HMU.

Activity No.	Activity type	Details	Month
1	<b>C.9 Conference activity</b>	Abstract & poster presentation “Autoencoder-Based ECG Analysis: Advancing PTSD Diagnosis through Anomaly Detection” in EMBC 2024	M37
2	<b>P.2 Publication in scientific journal</b>	A Review on Deep Learning for Quality of Life Assessment Through the Use of Wearable Data <a href="https://doi.org/10.1109/OJEMB.2025.3526457">https://doi.org/10.1109/OJEMB.2025.3526457</a>	M43
3	<b>P.3 Publication in scientific journal</b>	Association of echocardiographic radiomics-based features with cardiotoxicity effect in breast cancer patients from the CARDIOCARE project <a href="https://doi.org/10.1093/ehjci/jeae333.028">https://doi.org/10.1093/ehjci/jeae333.028</a>	M43
4	<b>P.5 Publication in scientific journal</b>	Towards PTSD Diagnosis Through ECG Anomaly Detection based on Autoencoders <a href="http://dx.doi.org/10.4108/eetpht.11.9463">http://dx.doi.org/10.4108/eetpht.11.9463</a>	M48
5	<b>E.12 Event</b>	CARDIOCARE was presented in the Roundtable “European Health Data Space – EHDS” by Prof. Manolis Tsiknakis in the 1st Greek Forum on Cancer: Policy, Research & Funding Strategies.	M37
6	<b>CB.1 Collaboration with other project</b>	5th Newsletter hosted an article for the PREFERABLE project (joint activity with HMU)	M35
7	<b>CB.2 Collaboration with other project</b>	Online collaboration and mutual visibility with the ESCAPE project through likes, shares, and reposts on social media (joint activity with UOI)	M36
8	<b>CB.3 Collaboration with other project</b>	Engagement with the 4D PICTURE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36
9	<b>CB.4 Collaboration with other project</b>	Engagement with the ODELIA project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36

10	<b>CB.5 Collaboration with other project</b>	Engagement with the IMMUCan project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36
11	<b>CB.6 Collaboration with other project</b>	Engagement with the RESILIENCE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36
12	<b>CB.7 Collaboration with other project</b>	Engagement with the MyPeBS project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36
13	<b>CB.8 Collaboration with other project</b>	Engagement with the FAITH project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36
14	<b>CB.9 Collaboration with other project</b>	Engagement with the EUCAIM project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI)	M36
15	<b>CB.10 Collaboration with other project</b>	Engagement with the COMFORTAGE project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI and STREMBLE)	M42
16	<b>CB.11 Collaboration with other project</b>	Engagement with the Cyprusgenome.org project to explore areas of alignment and lay the groundwork for a more structured partnership (joint activity with UOI and STREMBLE)	M42
17	<b>NW.1 Newsletter</b>	Newsletter #5 (joint activity with UOI and other CARDIOCARE partners)	M35
18	<b>NW.1 Newsletter</b>	Contribution to the 5th newsletter with an article “Can AI predict the overall health status and QoL, using data from wearable devices?”	M35
19	<b>NW.1 Newsletter</b>	Contribution to the 5th newsletter with an article “The exploitable results of CARDIOCARE”	M35
20	<b>PM.1 Presentation material</b>	CARDIOCARE report (in English) <a href="https://cardiocare-project.eu/wp-content/uploads/2024/07/The-CARDIOCARE-project-Report.pdf">https://cardiocare-project.eu/wp-content/uploads/2024/07/The-CARDIOCARE-project-Report.pdf</a>	M33
21	<b>PM.2 Presentation material</b>	CARDIOCARE Brochure #2 (in English) (joint activity with UOI)	M36
22	<b>VD.3 Video</b>	A patient from BOCOC describes her experience of participating in CARDIOCARE clinical study <a href="https://www.youtube.com/watch?v=g1JFUP7IoXQ">https://www.youtube.com/watch?v=g1JFUP7IoXQ</a> (joint activity with BOCOC)	M37

## 5 Planned Dissemination Activities

In collaboration with the PST and based on our ongoing interactions with the Consortium, we have developed the current scientific dissemination plan. Until now, the scope of dissemination activities has been somewhat limited due to the ongoing nature of the clinical study and the early stages of data analysis and model development. As we now enter the final year of the project and the clinical study concludes at M48, we anticipate a significant increase in dissemination efforts, particularly to communicate clinical findings and technical advancements resulting from the study.

Table 25: Planned dissemination activities.

Activity No.	Activity type	Partner	Details	Month	Scope / Title
1	Publication in scientific journal	NKUA & BOCOC	Journal: TBA	M54	TBA
2	Publication in scientific journal	STREMBLE	Journal: TBA	M54	Changes to microRNA profiles from chemotherapy-induced cardiotoxicity in breast cancer patients
3	Conference	UOI	EMBC 2025	M49	Paper “Utilizing Machine Learning for the Identification of Pre-Treatment Prognostic Non-Imaging Biomarkers of Cancer Therapy-Related Cardiac Dysfunction in Female Patients with Breast Cancer” accepted for presentation
4	Conference	HMU	EMBC 2025	M49	Paper “Behavioral and Psycho-Emotional mHealth Interventions for Elderly Breast Cancer Patients with Cardiac Toxicity” accepted for presentation
5	Conference	UOI	BHI 2025	M52	Paper “Regression-Based Prediction of Quality of Life in Breast Cancer Patients Using Foundation Models and Multimodal Data”



6	Event	ESC	ESC Congress 2025	M50	Special Session organization
7	Event	ESC	CARDIOCARE will be presented in the ESC Spring Summit 2026	M57	Medical and Scientific Community
8	Press Release	ESC	Press Release during the ESC Congress 2025	M50	Medical and Scientific Community
9	Press Release	HMU	HMU will prepare a press release for the final year of the project, giving information about the evolution of the project.	M54	All stakeholders
10	Newsletter	HMU & UOI	6th newsletter	M50	All stakeholders
11	Newsletter	HMU & UOI	7th newsletter	M54	All stakeholders
12	Newsletter	HMU & UOI	8th newsletter	M58	All stakeholders
13	Presentation material	HMU & UOI	Project poster	M50	All stakeholders
14	Presentation material	HMU & UOI	Project brochure	M50	All stakeholders
15	Video	HMU & UOI	The video will include interviews from the WP leaders and key partners as well as main results of the project	M54	Scientific community, healthcare stakeholders, guideline producers, policy makers

An indicative list of journals for the publication of scientific articles related to the CARDIOCARE project is:

- IEEE Transaction on Biomedical Engineering (Impact Factor: 4.4, <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=10>)
- IEEE Journal of Biomedical and Health Informatics (Impact Factor: 7.7, <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6221020>)
- ELSEVIER Clinical Breast Cancer (Impact Factor: 2.9, <https://www.sciencedirect.com/journal/clinical-breast-cancer>)
- ELSEVIER Journal of Health Economics (Impact Factor: 3.4, <https://www.sciencedirect.com/journal/journal-of-health-economics>)
- ELSEVIER European Journal of Cancer (Impact Factor: 8.4, <https://www.sciencedirect.com/journal/european-journal-of-cancer>)
- ELSEVIER Annals of Oncology (Impact Factor: 56.7, <https://www.sciencedirect.com/journal/annals-of-oncology>)

- Springer International Journal of Clinical Oncology (Impact Factor: 2.8, <https://www.springer.com/journal/10147>)
- Springer Nature Breast Cancer Research Journal (Impact Factor: 7.4, <https://breast-cancer-research.biomedcentral.com/>)
- American Society of Clinical Oncology (ASCO) Journal of Clinical Oncology (Impact Factor: 42.1, <https://ascopubs.org/journal/jco>)
- SAGE Journal of Aging and Health (Impact Factor: 2.8, <https://journals.sagepub.com/home/jah>)
- Psycho-Oncology Journal (Impact Factor: 3.955, <https://onlinelibrary.wiley.com/journal/10991611>)

An indicative list of conferences for the forthcoming presentation of CARDIO CARE results is:

- ESC Congress 2025, August 2025, Madrid Spain.
- IEEE International Conference on Biomedical and Health Informatics (BHI 2025), October 2025, Atlanta USA
- 47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2025), July 2025, Copenhagen Denmark
- IEEE International Symposium on Biomedical Imaging (ISBI 2026), April 2026, London UK
- ESMO Congress 2025, October 2025, Berlin Germany
- ESMO Breast Cancer 2026, May 2026, Berlin Germany
- IPOS 2025, November 2025, Adelaide Australia
- IEEE International Conference on High Performance Computing and Communications (HPCC-2026), TBA

## 1 Dissemination Monitoring

The coordination and monitoring of the project's Dissemination and Communication activities are led by HMU, through regular interactions with CARDIOCARE partners. These interactions ensure alignment with the dissemination plan, timely implementation of planned activities, and progress toward achieving the communication objectives. The following table summarizes the dissemination targets as described in the DoA and the progress made in each category till M48. The activities performed in M1-M18 and M19 – M30 are described in detail in *D7.2 Dissemination and Communication activities version 1* and *D7.4 Dissemination and Communication activities version 2* respectively.

Table 26: Overall CARDIOCARE dissemination & communication targets - progress.

Dissemination category	DoA target	Performed M1-M18	Performed M19-M30	Performed M31-M48	Performed M1-M48	Progress M31-M48
<b>Logo</b>	1	1	-	-	1	The logo was prepared during the preparation phase of the proposal.
<b>Website</b>	1	1	-	-	1	The CARDIOCARE website was created at M1 and is constantly updated and improved.
<b>Social media</b>	4 - 40 followers on Twitter - more than 70 connections on other networks	4 - 25 followers on Twitter - 17 followers on LinkedIn - 65 followers on Facebook - 6 followers on CARDIOCARE	4 - 38 followers on Twitter - 182 followers on LinkedIn - 103 followers on Facebook - 18 followers on CARDIOCARE YouTube channel	4 - 47 followers on Twitter - 290 followers on LinkedIn - 135 followers on Facebook - 26 followers on CARDIOCARE	4 - 47 followers on Twitter - 290 followers on LinkedIn - 135 followers on Facebook - 26 followers on CARDIOCARE	The three social media channels that have been set up in M1 are <b>Facebook, Twitter and LinkedIn</b> . Also the <b>YouTube channel</b> of CARDIOCARE was created on M13.



		YouTube channel		YouTube channel	YouTube channel	
<b>Posters</b>	4	1	1	3	5	<ul style="list-style-type: none"> <li>- CARDIOCARE Poster in the 14th FORTH Scientific Retreat (<b>E.16</b>)</li> <li>- CARDIOCARE Poster in EuroEcho-Imaging 2024 (<b>C.14</b>)</li> <li>- CARDIOCARE Poster in the ESC Cardio-Oncology 2025 congress (<b>C.20</b>)</li> <li>- An updated poster will be released with the latest achievements of CARDIOCARE by M50.</li> </ul>
<b>Brochures</b>	4	2	1	2	5	<ul style="list-style-type: none"> <li>- CARDIOCARE report (<b>PM.1</b>)</li> <li>- CARDIOCARE Brochure #2 (<b>PM.2</b>)</li> </ul>
<b>Newsletters</b>	8	2	2	1	5	<ul style="list-style-type: none"> <li>- The 5th Newsletter was released on M35 (<b>NW.1</b>).</li> <li>- The 6th, 7th and 8th Newsletter will be release on M50, M54 and M58 respectively.</li> </ul>
<b>Press Releases</b>	4	1	1	2	4	<ul style="list-style-type: none"> <li>- Press Release during the ESC Cardio-Oncology 2025 “Clinical trial of innovative health app reimagines care for elderly women with breast cancer therapy induced cardiac toxicity”. (<b>PR.3</b>)</li> <li>- Press Release during the ESC Cardio-Oncology 2025 “Breast cancer patients’ microbiome may hold key to</li> </ul>



						<p>avoiding damaging heart side-effects of cancer therapies”. <b>(PR.4)</b></p> <ul style="list-style-type: none"> <li>- A press release during the ESC Congress 2025 will be prepared on M50.</li> <li>- An updated press release with the latest project results will be ready by M54.</li> </ul>
<b>Videos/Podcasts</b>	2	2	2	4	8	<ul style="list-style-type: none"> <li>- The CARDIOCARE project on the Greek TV show “Health above all” <b>(VD.1)</b></li> <li>- The CARDIOCARE regulatory workshop – Navigating the Regulatory Landscape in Cardiovascular Health <b>(VD.2)</b></li> <li>- A patient from BOCOC describes her experience of participating in CARDIOCARE clinical study <b>(VD.3)</b></li> <li>- Monitoring and Management of Quality of Life in Cardiotoxicity <b>(VD.4)</b></li> <li>- A video will be produced till M54 including interviews from the WP leaders and key partners as well as main results of the project</li> </ul>
<b>Workshop @ ESC congress</b>	4	0	1	2	3	<ul style="list-style-type: none"> <li>- Scientific session organization in ESC Congress 2024 <b>(C.9)</b></li> <li>- Symposium organization in ESC Cardio-Oncology 2025 <b>(C.17)</b></li> </ul>



						- A session is planned to be organized in the ESC Congress 2025.
<b>Workshop @ IEEE BHI conference</b>	1	1	-	-	1	A Special Session in the IEEE BHI-BSN 2022 was organized on M15.
<b>Presentations in international conferences</b>	9 + 4 - 9 presentations on individual project results - 4 presentations on overall project presentation	3 + 3	10 + 6	10 + 12	23 + 21	<ul style="list-style-type: none"> <li>- An invited presentation took place on M34 in the 7th Hellenic Congress of Oncology on overall project presentation (<b>C.1</b>).</li> <li>- An invited presentation took place on M34 in the Cardiovascular Imaging Congress on overall project presentation (<b>C.2</b>).</li> <li>- An invited presentation took place on M35 in the Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’” on overall project presentation (<b>C.3</b>).</li> <li>- An invited presentation took place on M35 in the Panhellenic Congress “New Drugs in Oncology: from research to practice” on overall project presentation (<b>C.4</b>).</li> <li>- An invited presentation took place on M35 in the Panhellenic Congress “Heart Failure from A to Z, latest advances 2024” on overall project presentation (<b>C.5</b>).</li> </ul>



						<ul style="list-style-type: none"> <li>- An invited presentation took place on M36 in the IncontraDonna Conference “Care through Listening, Network, Transdisciplinarity, Empathy” on overall project presentation <b>(C.6)</b></li> <li>- An invited presentation took place on M36 in the Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment” on individual project results <b>(C.7)</b></li> <li>- An invited presentation took place on M37 in the 2nd Congress Heart and Cancer on individual project results <b>(C.8)</b></li> <li>- Abstract &amp; poster presentation in EMBC 2024 on M37 on individual project results <b>(C.9)</b></li> <li>- A scientific session organized in ESC Congress 2024 on M38 on overall project presentation <b>(C.10)</b></li> <li>- An invited presentation took place on M38 in the ESC Congress 2024 on overall project presentation <b>(C.11)</b></li> <li>- An invited presentation took place on M38 in the ESC Congress 2024 on overall project presentation <b>(C.12)</b></li> </ul>
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						<ul style="list-style-type: none"> <li>- An outreach poster was presented in the 45th Hellenic Congress of Cardiology on M40 on overall project presentation (<b>C.13</b>)</li> <li>- An invited presentation took place in the “5th Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management” on M40 on overall project presentation (<b>C.14</b>)</li> <li>- An invited presentation took place on M41 in the 22nd International Symposium on Medical Devices and Biosensors on individual project results (<b>C.15</b>)</li> <li>- An abstract and poster presentation took place on M42 in EuroEcho-Imaging 2024 on individual project results (<b>C.16</b>)</li> <li>- An invited presentation took place on M44 in the 26th Panhellenic Congress for Heart Failure on overall project presentation (<b>C.17</b>)</li> <li>- An invited presentation took place on M47 in the “Heart Failure and Cancer – Updates 2025” Congress on individual project results (<b>C.18</b>)</li> <li>- A symposium organized in ESC Cardio-Oncology 2025 on M48 on individual project results (<b>C.19</b>)</li> </ul>
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						<ul style="list-style-type: none"> <li>- An invited presentation took place in ESC Cardio-Oncology 2025 on M48 on individual project results (<b>C.20</b>)</li> <li>- An invited presentation took place in ESC Cardio-Oncology 2025 on M48 on individual project results (<b>C.21</b>)</li> <li>- An invited presentation took place in ESC Cardio-Oncology 2025 on M48 on individual project results (<b>C.22</b>)</li> </ul>
<b>Publications in open-access journals</b>	<p>4 + 1</p> <ul style="list-style-type: none"> <li>- 4 publications on individual project results</li> <li>- 1 publication on overall project presentation</li> </ul>	1 + 0	2 + 0	5 + 0	8 + 0	<ul style="list-style-type: none"> <li>- A journal paper was published on M44 regarding the CARDIOCARE prospective clinical study (<b>P.1</b>).</li> <li>- A journal paper was published on M43 regarding the deep learning for Quality of Life assessment through the use of wearable data (<b>P.2</b>)</li> <li>- A journal paper was published on M43 regarding the association of echocardiographic radiomics-based features with cardiotoxicity effect in breast cancer patients from the CARDIOCARE project (<b>P.3</b>)</li> <li>- A journal paper was published on M47 regarding the impact of e-Health interventions on mental health and Quality of Life in Breast Cancer patients (<b>P.4</b>)</li> <li>- A journal paper was published on M48 regarding the PTSD diagnosis through</li> </ul>



						ECG anomaly detection based on autoencoders <b>(P.5)</b>
<b>Workshop on regulatory aspects</b>	1	0	0	1	1	Organization of the workshop “Navigating the Regulatory Landscape in Cardiovascular Health” <b>(E.5)</b>
<b>Mailing list</b>	5.000 emails	80 emails	1.500 emails	12.000 emails	12.000 emails	The current mailing list includes email addresses of individuals who have subscribed to the CARDIOCARE newsletter, as well as contacts collected during previous events and conferences.
<b>Interactive face-to-face networking EU organized events</b>	3	1	2	0	3	<ul style="list-style-type: none"> <li>- CARDIOCARE organized a special event title “Research on Breast Cancer – CARDIOCARE”, in partnership with EUROPA DONNA Cyprus, to disseminate findings and developments from the project <b>(E.15)</b></li> <li>- In the next months will be discussed the possibilities of CARDIOCARE participation in interactive face-to-face EU organized events.</li> </ul>
<b>Synergies with other EU funded projects</b>	5	7	5	8	20	<ul style="list-style-type: none"> <li>- Synergy with the PREFERABLE project was initiated (5th Newsletter hosted an article for the PREFERABLE project) <b>(CB.1)</b></li> <li>- Moreover, synergies with the EU funded programs:</li> </ul>



						<ul style="list-style-type: none"> <li>▪ IMMUcan <a href="https://immucan.eu">https://immucan.eu</a></li> <li>▪ RESILIENCE <a href="https://resilience-h2020.com/">https://resilience-h2020.com/</a></li> <li>▪ MyPeBS <a href="https://www.mypebs.eu">https://www.mypebs.eu</a></li> <li>▪ FAITH <a href="https://faith-ec-project.eu">https://faith-ec-project.eu</a></li> <li>▪ EUCAIM <a href="https://cancerimage.eu">https://cancerimage.eu</a></li> <li>▪ COMFORTAGE <a href="https://comfortage.eu/">https://comfortage.eu/</a></li> <li>▪ Cyprusgenome.org <a href="https://www.cyprusgenome.org/">https://www.cyprusgenome.org/</a></li> </ul> <p>were initiated (<b>CB.5, CB.6, CB.7, CB.8, CB.9, CB.10, CB.11</b>).</p>
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## 2 Conclusion

This deliverable presents the dissemination and communication activities carried out during the period M31–M48 of the project, along with an overview of upcoming planned actions. In particular, the dissemination efforts during M31–M48 include:

- Publication in five (5) scientific journals
- Participation in seventeen (17) conferences:
  1. 7th Hellenic Congress of Oncology
  2. Cardiovascular Imaging Congress
  3. Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’”
  4. Panhellenic Congress “New Drugs in Oncology: from research to practice”
  5. Panhellenic Congress “Heart Failure from A to Z, latest advances 2024”
  6. IncontraDonna Conference “Care through Listening, Network, Transdisciplinarity, Empathy”
  7. Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment”
  8. 2nd Congress Heart and Cancer
  9. EMBC 2024
  10. ESC Congress 2024
  11. 45th Hellenic Congress of Cardiology
  12. Panhellenic Congress “5<sup>th</sup> Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management”
  13. 22nd International Symposium on Medical Devices and Biosensors (MDBS 2024)
  14. EuroEcho-Imaging 2024
  15. 26th Panhellenic Congress for Heart Failure
  16. “Heart Failure and Cancer – Updates 2025” Congress
  17. ESC Cardio-Oncology 2025
- Participation in fourteen (14) events:
  1. Presentation in an event at the Medical School of the University of Cyprus.
  2. Presentation in the Innovent Forum
  3. Presentation in the ESC Spring Summit 2024
  4. Presentation in an event title “Scientific leadership in international projects and opportunities to collaborate with a Cyprus-based Biotech company”
  5. Organization of the workshop “Navigating the Regulatory Landscape in Cardiovascular Health”
  6. Participation in the InnoHealth Satellite Event #3 “Women health & FemTech”
  7. Presentation in the InnoHealth Satellite Event #4 “Chronic Patients in the Digital Age”
  8. Presentation in the 1st Greek Forum on Cancer: Policy, Research & Funding Strategies
  9. Participation in an event organized by the Department of Nursing at the University of Ioannina titled “Research on Breast Cancer – CARDIOCARE”
  10. Participation in the event “Breast Cancer from Ancient Times to Today: Narratives – Illustrations – Answers”.
  11. Organization of a special event titled “Research on Breast Cancer – CARDIOCARE”
  12. Presentation in the 14th FORTH Scientific Retreat
  13. Presentation in the 5th Scientific event titled “Breast Cancer and the Contemporary Challenges in Clinical Management”
  14. Presentation in the 22nd International Summer Academy on AI in Healthcare, Medicine, and Biology
- Initiation of collaboration with eight (8) EU-funded projects:

1. PREFERABLE
  2. IMMUcan
  3. RESILIENCE
  4. MyPeBS
  5. FAITH
  6. EUCAIM
  7. COMFORTAGE
  8. Cyprusgenome.org
- Release of one (2) press releases
  - Creation of one (1) newsletter
  - Production of presentation and communication material (i.e. brochure, posters, report).
  - Production of four (4) videos

In summary, the consortium has made significant progress in achieving the dissemination and communication objectives of the project. The table below presents the targets set until Month 48 (Year 4), as outlined in the DoA, alongside the current status and the estimated number of forthcoming activities. Several targets have already been fulfilled—such as those related to social media, brochures, videos, conference presentations, publications, and synergies—while additional efforts are required in areas such as newsletters to ensure alignment with the DoA objectives by Month 60.

Table 27: CARDIOCARE dissemination & communication targets till M36.

Dissemination category	DoA target M1-M48	Performed M1-M48	Planned M49-M60
<b>Logo</b>	1	1	-
<b>Website</b>	1	1	-
<b>Social media</b>	4 - 40 followers on Twitter - more than 70 connections on other networks	4 - 47 followers on Twitter - 290 followers on LinkedIn - 135 followers on Facebook - 26 followers on CARDIOCARE YouTube channel	- - 60 followers on Twitter - 350 followers on LinkedIn - 200 followers on Facebook - 40 followers on CARDIOCARE YouTube channel
<b>Posters</b>	4	5	1
<b>Brochures</b>	4	5	1
<b>Newsletters</b>	8	5	3
<b>Press Releases</b>	4	4	2
<b>Videos/Podcasts</b>	2	8	1
<b>Workshop @ ESC congress</b>	4	3	1
<b>Workshop @ IEEE BHI conference</b>	1	1	-

<b>Presentations in international conferences</b>	9 + 4 - 9 presentations on individual project results - 4 presentations on overall project presentation	23 + 21	3 + 0
<b>Publications in open-access journals</b>	4 + 1 - 4 publications on individual project results - 1 publication on overall project presentation	8 + 0	2 + 0
<b>Workshop on regulatory aspects</b>	1	1	-
<b>Mailing list</b>	5000 emails	12.000 emails	-
<b>Interactive face-to-face networking EU organized events</b>	3	4	2
<b>Synergies with other EU funded projects</b>	5	20	2

Particular emphasis will be placed on disseminating CARDIOCARE's research outcomes not only within the healthcare sector, but also across the broader scientific community, with the aim of raising awareness about the proposed methodologies and their potential benefits for the management of elderly multimorbid patients. In parallel, efforts will be made to remain close to patients by sharing accessible information and fostering engagement with the patient community. A further update on the actions discussed and foreseen in this deliverable will be covered in the D7.6 Dissemination and communication activities version 4 in M60 of the project.





### C.3 Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’”



Figure 17: Panhellenic Congress “Towards excellence in Oncology: The Precision Medicine at the service of ‘de-escalation’”

### C.4 Panhellenic Congress “New Drugs in Oncology: from research to practice”



Figure 18: Panhellenic Congress “New Drugs in Oncology: from research to practice”



## C.5 Panhellenic Congress “Heart Failure from A to Z, latest advances 2024”



Figure 19: Panhellenic Congress “Heart Failure from A to Z, latest advances 2024”

## C.6 IncontraDonna Conference “Care through Listening, Network, Transdisciplinarity, Empathy”



Figure 20: IncontraDonna Conference “Care through Listening, Network, Transdisciplinarity, Empathy”

## C.7 Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment



Figure 21: Cardiology Congress “Knowing the present and looking to the future – the role of technology in prevention, diagnosis and treatment

## C.10 Scientific Session in the ESC Congress 2024



Figure 22: Scientific Session in the ESC Congress 2024



#### C.14 Panhellenic Congress “5th Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management”



Figure 23: 5th Scientific Event: Breast Cancer and the Contemporary Challenges in Clinical Management

#### C.16 EuroEcho-Imaging 2024



Figure 24: EuroEcho-Imaging 2024

## C.17 26th Panhellenic Congress for Heart Failure

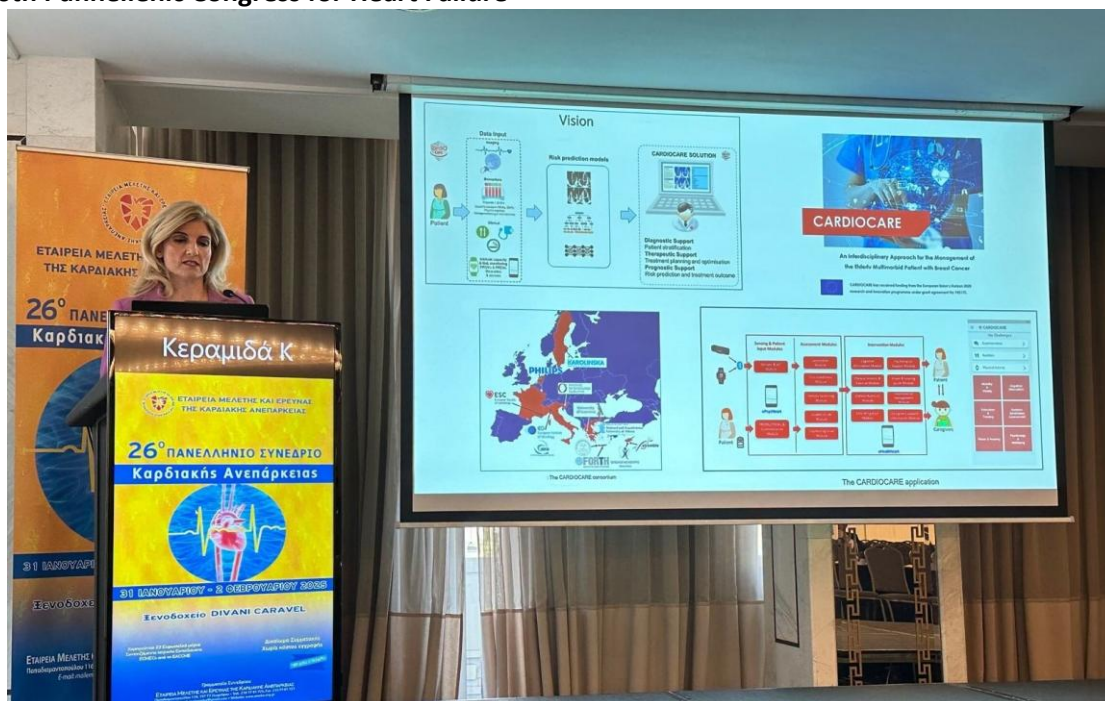


Figure 25: 26th Panhellenic Congress for Heart Failure

## C.18 “Heart Failure and Cancer – Updates 2025” Congress

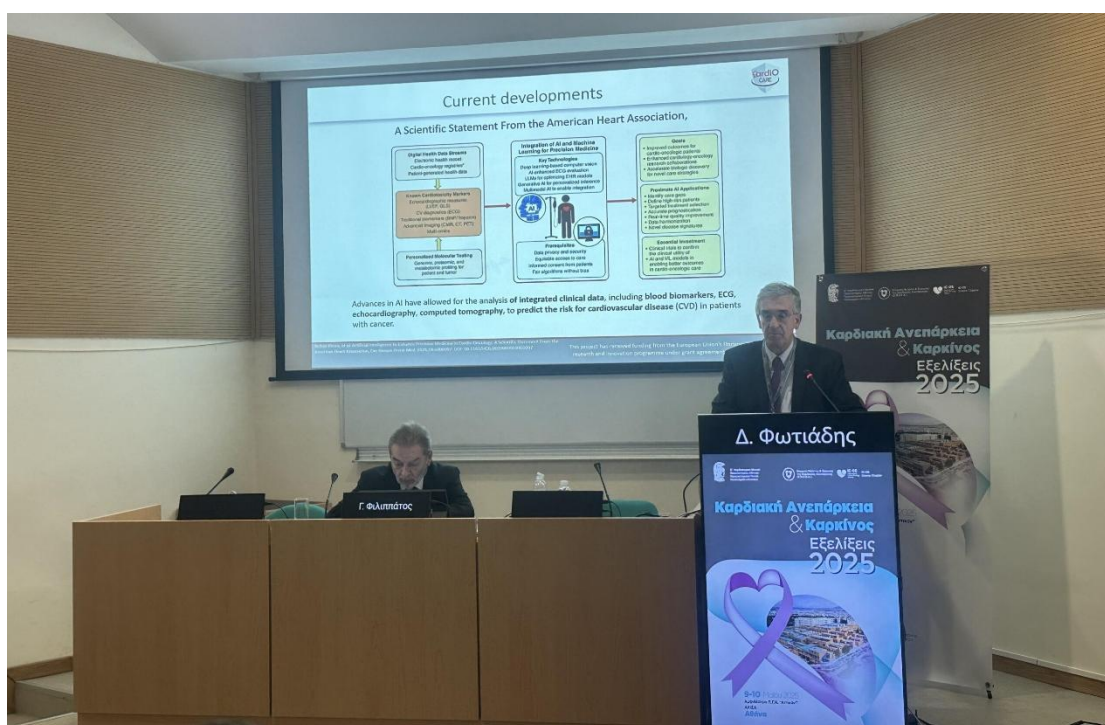


Figure 26: “Heart Failure and Cancer – Updates 2025” Congress



## C.19 Symposium in ESC Cardio-Oncology 2025

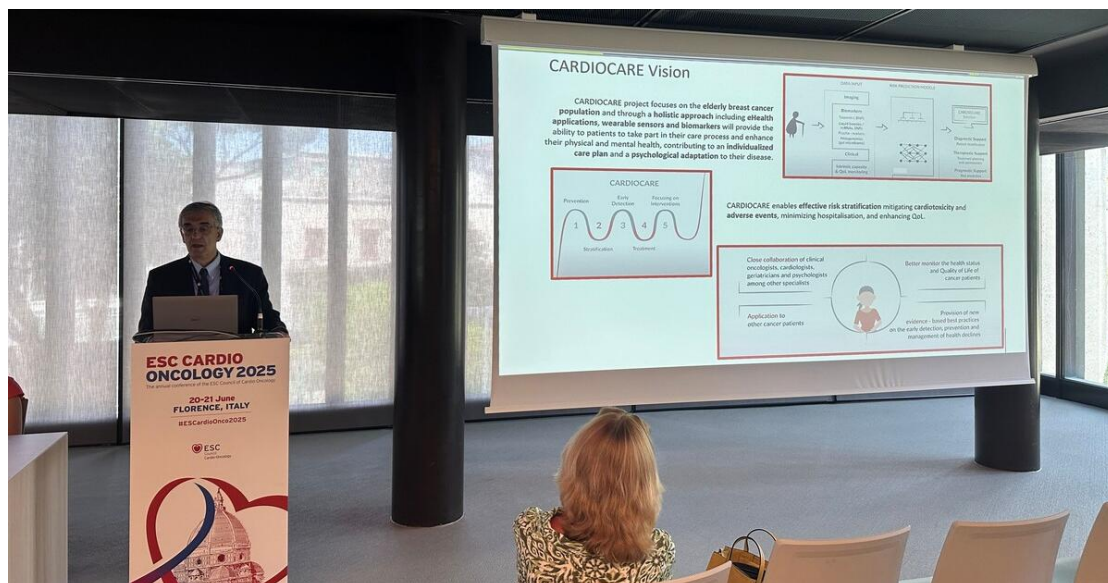


Figure 27: Symposium in ESC Cardio-Oncology 2025

## E.1 Event #1 STREMBLE



Figure 28: Event #2 STREMBLE

## E.2 Innovent Forum



Figure 29: Innovent Forum

## E.3 ESC Spring Summit 2024



Figure 30: ESC Spring Summit 2024



## E.4 Event #2 STREMBLE



Figure 31: Event #2 STREMBLE

## E.5 Regulatory Workshop



Figure 32: Regulatory Workshop

### E.9 InnoHealth Satellite Event #3



Figure 33: InnoHealth Satellite Event #3

### E.10 InnoHealth Satellite Event #4



Figure 34: InnoHealth Satellite Event #4

### E.13 Event organized by the Department of Nursing at the University of Ioannina



Figure 35: Event organized by the Department of Nursing at the University of Ioannina



#### E.14 Event “Breast Cancer from Ancient Times to Today: Narratives – Illustrations – Answers”

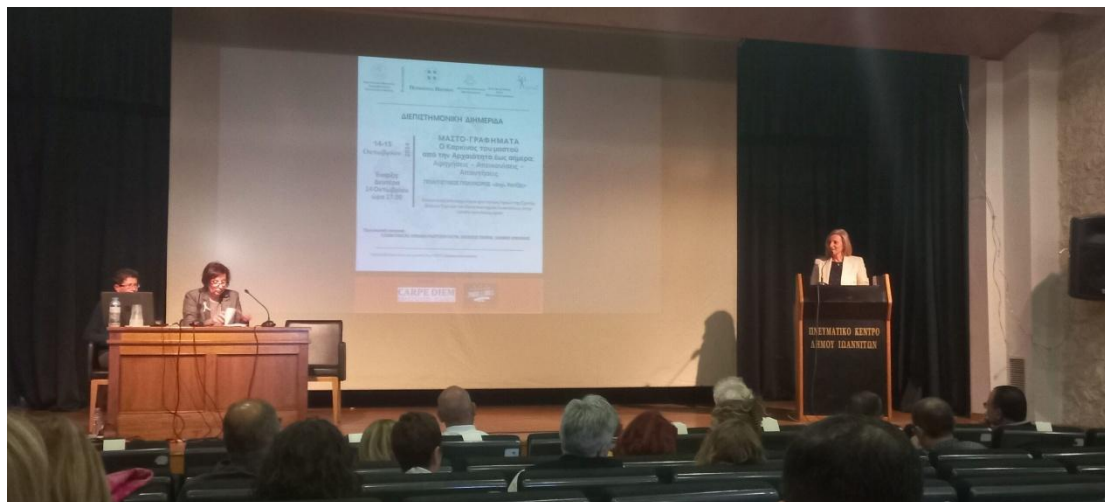


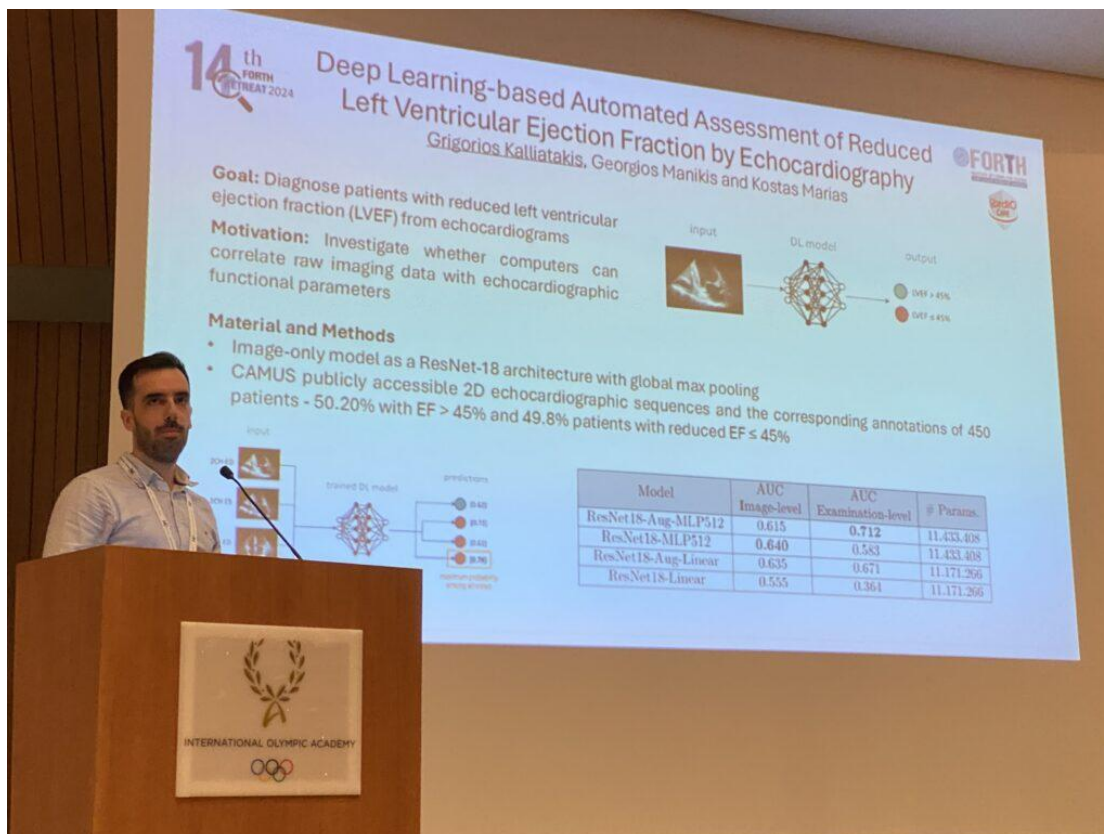
Figure 36: Event “Breast Cancer from Ancient Times to Today: Narratives – Illustrations – Answers”

#### E.15 Event “Research on Breast Cancer – CARDIO CARE”



Figure 37: Event “Research on Breast Cancer – CARDIO CARE”

## E.16 14th FORTH Scientific Retreat



**14<sup>th</sup> FORTH RETREAT 2024**

## Deep Learning-based Automated Assessment of Reduced Left Ventricular Ejection Fraction by Echocardiography

Grigorios Kalliatakis, Georgios Maniakis and Kostas Marias

**Goal:** Diagnose patients with reduced left ventricular ejection fraction (LVEF) from echocardiograms

**Motivation:** Investigate whether computers can correlate raw imaging data with echocardiographic functional parameters

**Material and Methods**

- Image-only model as a ResNet-18 architecture with global max pooling
- CAMUS publicly accessible 2D echocardiographic sequences and the corresponding annotations of 450 patients - 50.20% with EF > 45% and 49.8% patients with reduced EF ≤ 45%

**DL model**

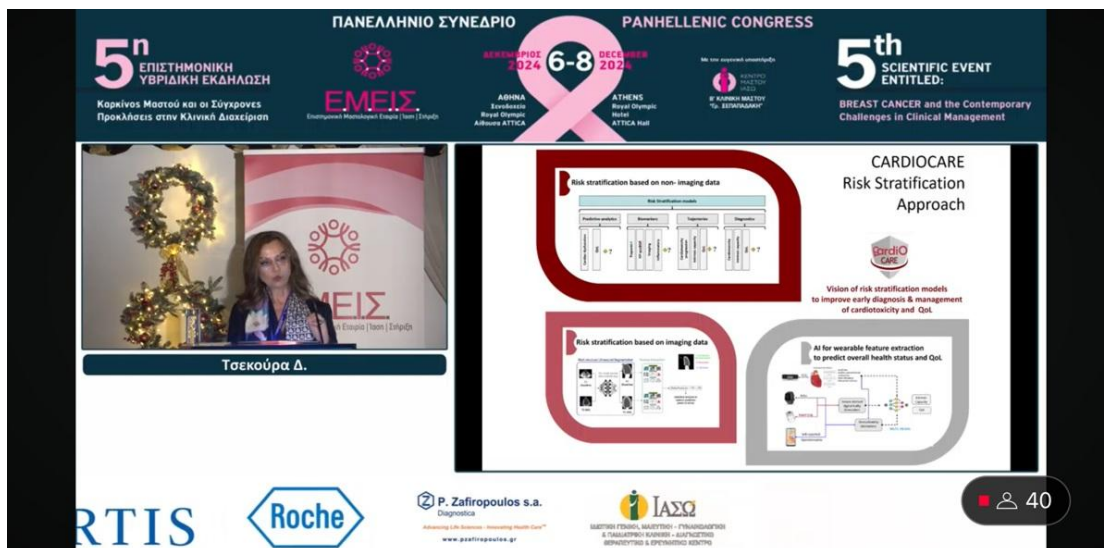
input → DL model → output

output: LVEF > 45% (green), LVEF ≤ 45% (red)

Model	AUC Image-level	AUC Examinations-level	# Params.
ResNet18-Avg-MLP512	0.615	0.712	11,433,408
ResNet18-MLP512	0.640	0.583	11,433,408
ResNet18-Avg-Linear	0.635	0.671	11,171,266
ResNet18-Linear	0.555	0.361	11,171,266

Figure 38: 14th FORTH Scientific Retreat

## E.17 5th Scientific event titled “Breast Cancer and the Contemporary Challenges in Clinical Management”



**5<sup>th</sup> ΕΠΙΣΤΗΜΟΝΙΚΗ ΥΒΡΙΔΙΚΗ ΕΚΔΗΛΩΣΗ**  
Κορίνθια Μαστού και οι Σύγχρονες Προκλήσεις στην Κλινική Διαχείριση

**ΠΑΝΕΛΛΗΝΙΟ ΣΥΝΕΔΡΙΟ**  
ΕΡΕΥΝΗΤΙΚΟ 2024 6-8 DECEMBER 2024  
ΑΘΗΝΑ  
Basilikion  
Royal Olympic Hotel  
ATHINA HOTEL

**PANHELLENIC CONGRESS**  
We are connected tomorrow  
ATHENS  
Royal Olympic Hotel  
ATHINA HOTEL

**5<sup>th</sup> SCIENTIFIC EVENT ENTITLED:**  
BREAST CANCER and the Contemporary Challenges in Clinical Management

**CARDIOCARE Risk Stratification Approach**

**Risk stratification based on non-imaging data**

**Risk stratification based on imaging data**

**AI for wearable feature extraction**  
to predict overall health status and QoL

**Τσακούρα Δ.**

**RTIS** **Roche** **P. Zafiroopoulos s.a.** **ΙΑΣΟ**

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Figure 39: 5th Scientific event titled “Breast Cancer and the Contemporary Challenges in Clinical Management”

## OT.1 The Pillow Positive Project



*Figure 40: The Pillow Positive Project*