



STRATIFYHF Artificial intelligence-based decision support system for risk stratification and early detection of heart failure in primary and secondary care	
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D7.4– Interim communication and dissemination activities report

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Executive summary

These deliverable forms part of Work Package 7 (Communication, Dissemination, and Exploitation) within the STRATIFYHF project and provides an interim overview of communication and dissemination activities undertaken to date. The report outlines progress against the Communication and Dissemination Plan (CDP) and highlights key outputs, including conference abstracts, keynote presentations, journal publications and book chapters.

The STRATIFYHF project aims to develop, clinically validate, and implement an advanced Decision Support System (DSS) powered by artificial intelligence (AI) and computational modelling to improve prediction, early diagnosis, and monitoring of heart failure (HF). By integrating diverse patient-specific data—demographic, clinical, genetic, biological, pharmacological, and imaging—the DSS seeks to optimize therapeutic strategies, enhance treatment efficacy, reduce adverse outcomes, and shorten time to clinical improvement. Complementing this, a patient-facing mobile application is being developed to support self-management and enable healthcare professionals to make evidence-based decisions in HF prevention and treatment.

The interim report details: (i) Target audiences and tailored messaging to ensure effective engagement, (ii) multi-channel dissemination actions, including scientific conferences, peer-reviewed publications, and digital platforms and (iii) Key achievements to date, such as accepted abstracts, keynote presentations, and manuscripts under review. These activities aim to raise awareness of STRATIFYHF objectives and results among diverse stakeholders, including clinicians, researchers, policymakers, patients, and the wider public.

Table of Contents

1.	Introduction.....	6
2.	Scientific publications and conferences	7
2.1	Manuscripts.....	7
2.2	Conference Abstracts.....	7
3.	Scientific symposia, workshops and guest lectureships.....	8
3.1	International Conferences and Workshops	8
3.2	European Symposia and Summits.....	9
3.3	Webinars and Knowledge Exchange	10
3.4	International Outreach	11
4.	Book Chapters and Booklets.....	12
5.	Other Dissemination Activities	13
6.	Deviation from the work plan	14
7.	Supplementary Information	15
7.1	List of journal articles	15
7.2	List of abstracts	15

List of Abbreviations

Abbreviation	Explanation
AI	Artificial Intelligence
AI4HF	Artificial Intelligence for Heart Failure
BHI	Biomedical and Health Informatics
CDP	Communication and Dissemination Plan
COVU	Coventry University
DSS	Decision Support System
FoMUNS	Faculty of Medicine, University of Novi Sad
HF	Heart Failure
IEEE	The Institute of Electrical and Electronics Engineers
SANU	Serbian Academy of Sciences and Arts
SAPC	Society for Academic Primary Care

1. Introduction

The STRATIFYHF project is progressing towards its objectives under the Horizon Europe programme, with significant strides made in communication and dissemination activities. The Communication and Dissemination Plan (CDP) was established at project inception to ensure maximum impact of results and broad outreach across scientific, clinical, and public domains. This plan, supervised by the project coordinators with input from all partners, adopts a multi-channel approach to engage diverse audiences, tailor messages, and monitor progress.

As the STRATIFYHF project advances, we have transitioned from planning to delivering tangible outputs. These include peer-reviewed journal articles, conference abstracts, and book chapters, which demonstrate strong engagement with academic and clinical communities. Dissemination activities have also included participation in major conferences, workshops, and networking events, ensuring visibility within relevant scientific and industry networks.

Communication efforts continue to target healthcare professionals, patients, and the public through the STRATIFYHF website, digital patient platform, educational materials, project handbook, explainer videos, and professional social media campaigns. These initiatives aim to raise awareness of heart failure (HF) and the STRATIFYHF decision support system (DSS), fostering understanding and engagement.

Cross-network collaboration remains a priority, enhancing European branding and policy-level visibility while reducing public confusion through coordinated messaging. This interim report provides an overview of progress to date, highlights key achievements, and outlines next steps to sustain momentum and maximise impact as STRATIFYHF moves toward its final phase.

2. Scientific publications and conferences

2.1 Manuscripts

As part of STRATIFYHF's ongoing dissemination activities, significant progress has been made in generating high-quality scientific outputs. These manuscripts reflect the project's commitment to advancing knowledge HF management, AI applications, and related domains. To date, the consortium has produced 15 publications across peer-reviewed journals and international conferences, with some already published and others under review or in final stages of preparation. Manuscripts that are published or under review are provided in section 7.1 under supplementary information.

2.2 Conference Abstracts

To date, the STRATIFYHF consortium has delivered 38 abstracts presented as either oral or poster presentations at local, national, and international conferences. These contributions span major cardiovascular and health informatics and bioengineering meetings, including ESC Heart Failure Congress, IEEE International Conference on Bioinformatics and Bioengineering, Society for Academic Primary Care (SAPC) Annual Scientific Meeting, and other relevant forums. List of abstracts is provided in section 7.2.



Figure 1. Highlight of STRATIFYHF presentations at national/international conferences

3. Scientific symposia, workshops and guest lectureships

Since the start of the STRATIFYHF project, consortium members have actively engaged in high-profile scientific symposia, workshops, and invited lectureships to disseminate project objectives, methodologies, and emerging results. These activities have strengthened collaborations, enhanced visibility, and positioned STRATIFYHF as a leader in AI-driven heart failure research across Europe and globally. Major highlights are detailed below:

3.1 International Conferences and Workshops

IEEE Engineering in Medicine and Biology Society (IEEE-EMBS) Biomedical and Health Informatics (BHI) 2025 (Atlanta, USA – October 2025): STRATIFYHF organized the workshop “Coupled AI and Finite Element Methods: Discovering Novel Biomarkers from Complex Medical Datasets”. Speakers included Nenad Filipović (BioIRC), Dejan Krsmanović (CardioMed Technology Consultants), Tijana Geroski (BioIRC), and Dejana Popovic (Mayo Clinic). The session explored how AI and finite element methods can uncover novel biomarkers and improve interpretation of complex datasets.



Figure 2. Professor Filipovic presenting at the BHI 2025 conference

2. IEEE-EMBS BHI 2024 (Houston, USA – November 2024): STRATIFYHF hosted a workshop on “Computational Mechanics and AI” and presented a poster titled “Extraction of Vocal Features as Biomarkers for Heart Failure Diagnosis”.

3.2 European Symposia and Summits

1. Health Data Summit (Brussels – March 2025): Project Coordinator Prof. Nenad Filipović presented STRATIFYHF in the session “Trustworthy AI in Digital Health: From Guidelines to Practice”, alongside Horizon Europe sister projects (AI-PROGNOSIS, iPROLEPSIS, SmartCHANGE, TRUSTroke).
2. Joint Symposium – The Serbian Academy of Sciences and Arts (SANU) & Heart Failure Society of Serbia (Belgrade – October 2025): Tijana Geroski delivered a lecture on “The Role and Importance of AI in Heart Failure Diagnosis and Treatment”, highlighting STRATIFYHF’s clinical impact.
3. ESC Heart Failure World Congress (Belgrade - May 2025): A dedicated STRATIFYHF session titled **EU Consortia on Personalized Medicine in Heart Failure** featured lectures by Professors Nenad Filipović (Optimal clinical study design to support the development and evaluation of AI-based risk assessment), Petar Seferović (Original clinical approach in STRATIFYHF: early diagnosis of heart failure in primary setting, and Djordje Jakovljević (AI based decision support system for risk stratification and early diagnosis of heart failure in primary and secondary care- methodology and insights into first results).



Figure 3. Cross section of presentations and attendees at the ESC Heart Failure annual congress

D7.4– Interim communication and dissemination activities report

4. XXV National Congress of the Cardiology Society of Serbia (Belgrade – October 2024): A dedicated STRATIFYHF session featured lectures by Professors Filipović, Seferović, and Jakovljević on AI-driven diagnostics and early detection strategies.



Figure 4. Keynote lectures at the 25th National Congress of the Cardiology Society of Serbia.

3.3 Webinars and Knowledge Exchange

1. Adaptive AI for Secure Healthcare Innovation Webinar (March 2025): Prof. Filipović presented STRATIFYHF's approach to ethical and sustainable AI in healthcare.
2. DeepTech Open Science Day (Serbia – April 2024): STRATIFYHF showcased its innovative solutions at this multidisciplinary research forum.

3.4 International Outreach

1. ZGC Forum (Beijing – March 2025): Prof. Filipović presented STRATIFYHF at this global innovation platform and delivered an invited lecture at Shanghai Jiangwan Hospital.



Figure 5. Prof Filipovic presenting the STRATIFYHF project at the ZGC Forum in Beijing.

2. Guest Lectures in China and France (June 2025): STRATIFYHF was presented at Sun Yat-sen University (Shenzhen) and Université de Technologie de Compiègne, promoting academic collaboration.

Other notable events include

3. Days of Biomedical Engineering (Novi Sad – October 2024): STRATIFYHF featured prominently in discussions on the role of biomedical engineering in healthcare innovation.

4. Synergy with AI4HF Project (Amsterdam – October 2024): STRATIFYHF explored collaborative strategies with sister project AI4HF to enhance AI-driven heart failure care pathways.

4. Book Chapters and Booklets

In addition to journal articles and conference abstracts, STRATIFYHF partners have contributed to book chapters and educational booklets, reinforcing the project's role in advancing knowledge and clinical practice in cardiovascular disease and digital health. These outputs serve as valuable resources for clinicians, researchers, and students, providing insights into emerging technologies and methodologies. Key contributions include:

1. Wearable electrocardiogram sensors for home monitoring of cardiovascular diseases. Bhat R, Jaiyesimi AB, Liu H, Tse G, Jakovljevic DG, Okwose NC. In: Cutting-Edge Diagnostic Technologies in Cardiovascular Diseases. 1st ed. Boca Raton, FL: CRC Press; 2025:15.
2. Heart physiology and heart disease: Okwose NC, Charman SJ, Fuller AS, et al. In: In Silico Clinical Trials for Cardiovascular Disease: A Finite Element and Machine Learning Approach. 2024:47–76.
3. Artificial intelligence-based decision support system for risk stratification and early detection of heart failure in primary and secondary care: A handbook of the STRATIFYHF project. Okwose NC et al., 2005. This booklet serves as a practical guide to the STRATIFYHF decision support system (DSS), detailing its architecture, clinical applications, and integration into healthcare workflows.

5. Other Dissemination Activities

Beyond traditional publications and conference presentations, STRATIFYHF has implemented a range of complementary dissemination actions to broaden engagement and maximise impact. These include:

1. Development of Online Training Materials: Work is underway to create interactive training resources that will support healthcare professionals and researchers in understanding and applying STRATIFYHF tools and methodologies.
2. Presence on Professional Media Platforms: The STRATIFYHF project maintains an active website and a profile on platforms such as Zenodo and LinkedIn, ensuring open access to scientific outputs and fostering professional networking within the cardiovascular and digital health communities. From December 2023 to January 2025, the STRATIFYHF website recorded 12,143 visitors and 21,449 visits (Figure 6). Recent activity remains strong, with 1,323 visitors and 2,256 visits in the last 30 days. Traffic trends reveal consistent engagement and periodic spikes, likely linked to project milestones or outreach campaigns. Repeat visits indicate sustained interest in study content.

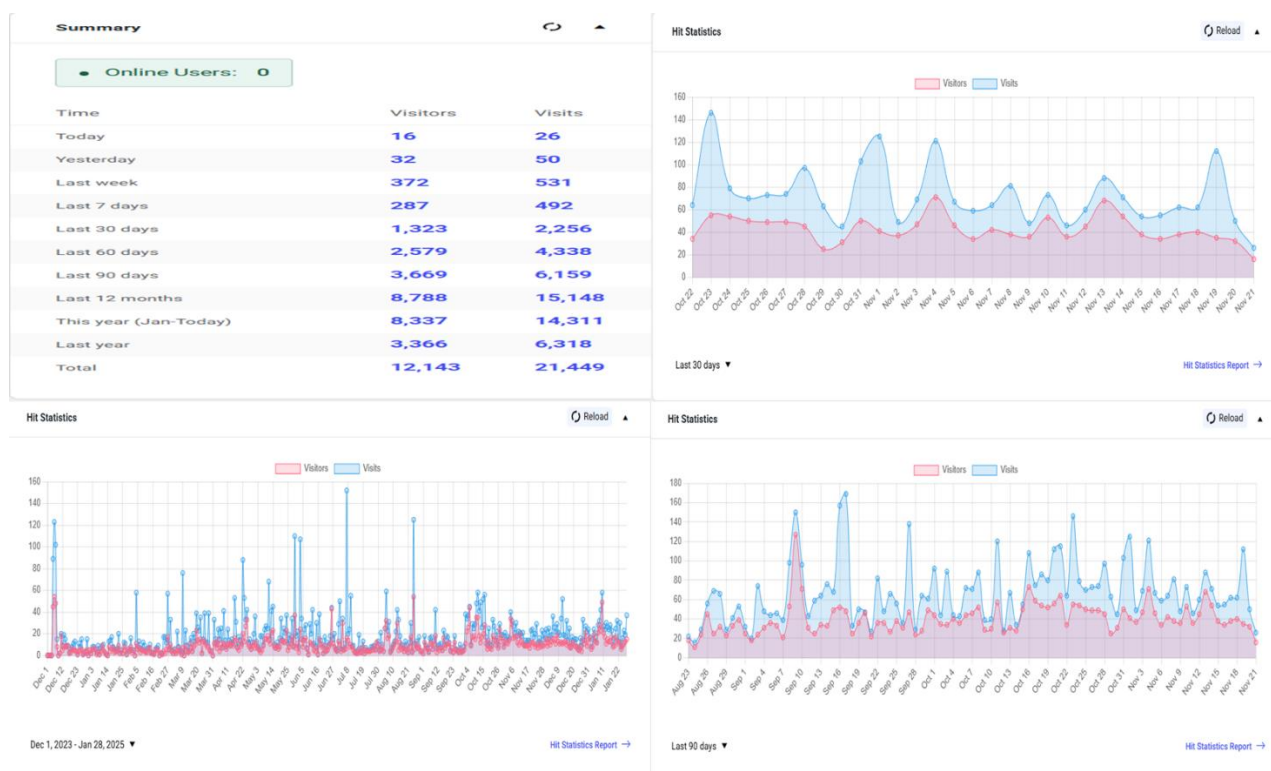


Figure 6. STRATIFYHF website visit metrics

3. Production of STRATIFYHF Explainer Videos: Short, visually engaging videos are being developed to communicate project objectives, innovations, and benefits to diverse audiences, including clinicians, patients, and policymakers.
4. Networking with Major Heart Failure Associations: STRATIFYHF continues to strengthen ties with leading European heart failure associations and societies, facilitating knowledge exchange and promoting adoption of project outcomes across clinical practice and policy frameworks.

6. Deviation from the work plan

There was no deviation from the work plan.

7. Supplementary Information

7.1 List of journal articles

1. Darbà, J., Ascanio, M., Rodríguez, A., Charman, S. J., Okwose, N. C., Stefanetti, R. J., Groenewegen, A., Del Franco, A., Tafelmeier, M., Preveden, A., Fuller, A. S., Bano, F., Sinclair, D. R., Edwards, D., Nelissen, A. P., Malitas, P. N., Zisaki, A., Bosnić, Z., Vračar, P., Fornaro, A., Barlocco, F., Fotiadis, D., Banerjee, P., MacGowan, G. A., Fernandez, O., Zamorano, J. L., Jimenez-Blanco Bravo, M., Maier, L. S., Olivotto, I., Milli, M., Rutten, F. H., Mant, J., Velicki, L., Seferovic, P. M., Filipovic, N., & Jakovljevic, D. G. (2025). Economic burden of heart failure in Europe: A systematic review of costs and cost-effectiveness. *ESC Heart Failure*. <https://doi.org/10.1002/ehf2.70017>
2. Pavić, O., Dašić, L., Geroski, T., Vasković Jovanović, M., & Filipović, N. (2023). Risk Classification for Sudden Cardiac Death in Patients with Hypertrophic Cardiomyopathy based on Machine Learning Algorithms, *Journal of the Serbian Society for Computational Mechanics*, Vol. 17, No. 2, pp 153-165, <https://doi.org/10.24874/jsscm.2023.17.02.11>.
3. Pavić, J., Živanović, M., Tanasković, I., Pavić, O., Stanković, V., Virijević, K., Mladenović, T., Košarić, J., Milićević, B., Qamar, S. U. R., Velicki, L., Novaković, I., Preveden, A., Popović, D., Tesić, M., Seman, S., & Filipović, N. (2024). A Machine Learning Approach to Gene Expression in Hypertrophic Cardiomyopathy. *Pharmaceuticals*, 17(10), 1364, doi: <https://doi.org/10.3390/ph17101364>
4. Charman, S.J., Okwose, N.C., Groenewegen, A., et al, (2025). Clinical validation of an artificial intelligence-based decision support system for diagnosis and risk stratification of heart failure (STRATIFYHF): a protocol for a prospective, multicentre longitudinal study. *BMJ Open* 15:e091793, doi: <https://doi.org/10.1136/bmjopen-2024-091793>.
5. Ashfaq, M., Vračar, P., Flis, B., Pičulin, M., Fuller, A., Okwose, N., Filipović, N., Jakovljević, D., & Bosnić, Z. (2025). Explainable heart failure voice prediction using machine learning ensembles. In *Proceedings of the 11th World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'25)* (Paper No. ICBES 206). Paris, France. <https://doi.org/10.11159/icbes25.206>.

Under Review:

6. Nelissen AP, van Doorn S, van den Dries CJ, Spek M, Zwart DL, Venekamp RP, van Laake LW, Rutten FH, Geersing GJ. Out-of-hours primary care management for patients with heart failure. Under review for *ESC Heart Failure*.

7.2 List of abstracts

1. Pavić, O., Dašić, L., Blagojević, A., Geroski, T., & Filipović, N. (2025). Recognizing Patterns of Emerging Chronic Obstructive Pulmonary Disease in Heart Failure Patients Through the Use of Machine Learning Techniques, 4th Serbian International Conference on Applied Artificial Intelligence (SICAAI), Zlatibor, Serbia, May 29-30, 2025, <http://aai2025.kg.ac.rs/book-of-abstracts/>
2. Milićević, B., Milošević, M., Ivanović, M., & Filipović, N. (2025). Software Architecture for StratifyHF: Heart Failure Risk Stratification and Diagnosis, 4th Serbian International Conference on Applied Artificial Intelligence (SICAAI), Zlatibor, Serbia, May 29-30, 2025, <http://aai2025.kg.ac.rs/book-of-abstracts/>
3. Gačić, M., Kaplarević, M., Velicki, L., Jakovljević, Dj., & Filipović, N. (2025). Economic Evaluation of Heart Failure Strategies in the StratifyHF Project, 4th Serbian International Conference on Applied Artificial Intelligence (SICAAI), Zlatibor, Serbia, May 29-30, 2025, <http://aai2025.kg.ac.rs/book-of-abstracts/>

4. Jeremić, T., Dašić, L., Pavić, O., Blagojević, A., Filipović, N. (2025). Prediction of Different Symptoms Emergence in Heart Failure Patients Using Machine Learning Approaches, 4th Serbian International Conference on Applied Artificial Intelligence (SICAAI), Zlatibor, Serbia, May 29-30, 2025, 5. <http://aai2025.kg.ac.rs/book-of-abstracts/>
5. Marković, N., Geroski, T., Pavić, O., Dašić, L., Jovanov, E., & Filipović, N. (2025). Multipurpose Wearable Sensory Device for Heart Failure Diagnosis and Biomarker Measurement, 4th Serbian International Conference on Applied Artificial Intelligence (SICAAI), Zlatibor, Serbia, May 29-30, 2025, <http://aai2025.kg.ac.rs/book-of-abstracts/>
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9. Kojić, M. (2025). Our Multiscale Multiphysics Finite Element Models in Bioengineering, 7th International Conference on Multi-scale Computational Methods for Solids and Fluids, Split, Croatia, June 25-27, 2025.
10. Filipović, N. (2025). Computational Mechanics and Artificial Intelligence Based Decision Support System for Heart Failure, 7th International Conference on Multi-scale Computational Methods for Solids and Fluids, Split, Croatia, June 25-27, 2025.
11. Milićević, B., Milošević, M., Ivanović, M., Atanasijević, A., & Filipović, N. (2025). A Web-based Interface for AI-Driven Decision Support in Heart Failure Management, 7th International Conference on Multi-scale Computational Methods for Solids and Fluids, Split, Croatia, June 25-27, 2025. <https://zenodo.org/records/17521415>
12. Geroski, T., Dašić, L., Blagojević, A., Pavić, O., & Filipović, N. (2025). Evaluating the Potential of Vocal Features as Non-Invasive Biomarkers for Heart Failure, The 17th International Scientific Conference Contemporary Materials, Banja Luka, Republic of Srpska, 11-12 September 2025.
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- 19.** Milićević, B., Milošević, M., Kojić, M., & Filipović, N. (2024). Cardiac Hypertrophy Simulations Using Echocardiography-based LV Model, 9th European Medical and Biological Engineering Conference (EMBEC 2024), Portorož, Slovenia, 9-13 June 2024, <https://doi.org/10.5281/zenodo.14756318>
- 20.** Simić, V., Milićević, B., Milošević, M., Filipović, N., & Kojić, M. (2024). Parameter Optimization of Drug Diffusion Transport Within Axial Symmetric Model for Drug Coating Balloon (DCB) Using Genetic Algorithms, The 9th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS Congress 2024), Lisbon, Portugal, 3-7 June 2024, <https://doi.org/10.5281/zenodo.14771550>
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- 22.** Geroski, T., Pavić, O., Dašić, L., & Filipović, N. (2024). From Data to Dynamics: Exploring Physics Informed Neural Network Solutions for Complex Transport Phenomena. The 9th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS Congress 2024), Lisbon, Portugal, 3-7 June 2024, <https://doi.org/10.5281/zenodo.14889837>
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- 31.** Ascanio, M., Rodriguez, A., Fuller, A. S., Charman, S. J., Okwose, N. C., Voppel, A. E., Stefanetti, R. J., Groenewegen, A., Del Franco, A., Tafelmeier, M., Preveden, A., Milovancev, A., Edwards, D., Nelissen, A. P., Barlocco, F., Fornaro, A., Gacic, M., Zamorano, P., Banerjee, P., MacGowan, G. A., Fernandez, O., Jimenez-Blanco Bravo, M., Maier, L. S., Olivotto, I., Rutten, F. H., Mant, J., Velicki, L., Seferovic, P. M., Filipovic, N., Darbà, J., & Jakovljevic, D. G. (2025, June 18–20). Economic burden of heart failure in Europe: A systematic review of costs and cost-effectiveness. XLIV edición de las Jornadas de Economía de la Salud (AES), Madrid, Spain.
- 32.** Bano F, Fuller A, Okwose N, Charman S, Stefanetti R, MacGowan GA, Banerjee P, Seferovic PM, Filipovic N, Jakovljevic D. Preliminary insights from a systematic literature review on different diagnostic thresholds of plasma natriuretic peptides in heart failure. Presented at: ESC Heart Failure Congress; may 2025.
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