



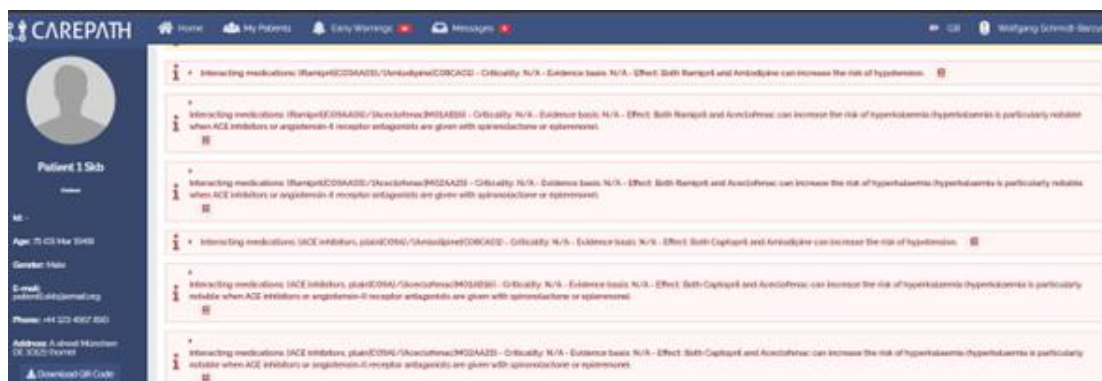
Newsletter

Autumn-Winter 2023

Welcome to the latest issue of the CAREPATH Newsletter! Over the last few months, the team has been busy preparing the CAREPATH Platform components in readiness for the Technical and Validation Study, and finalising the clinical investigation protocol and ethics approvals at the 4 pilot sites. In this issue, you will find some highlights of the project current and planned activities.

Blogs and News

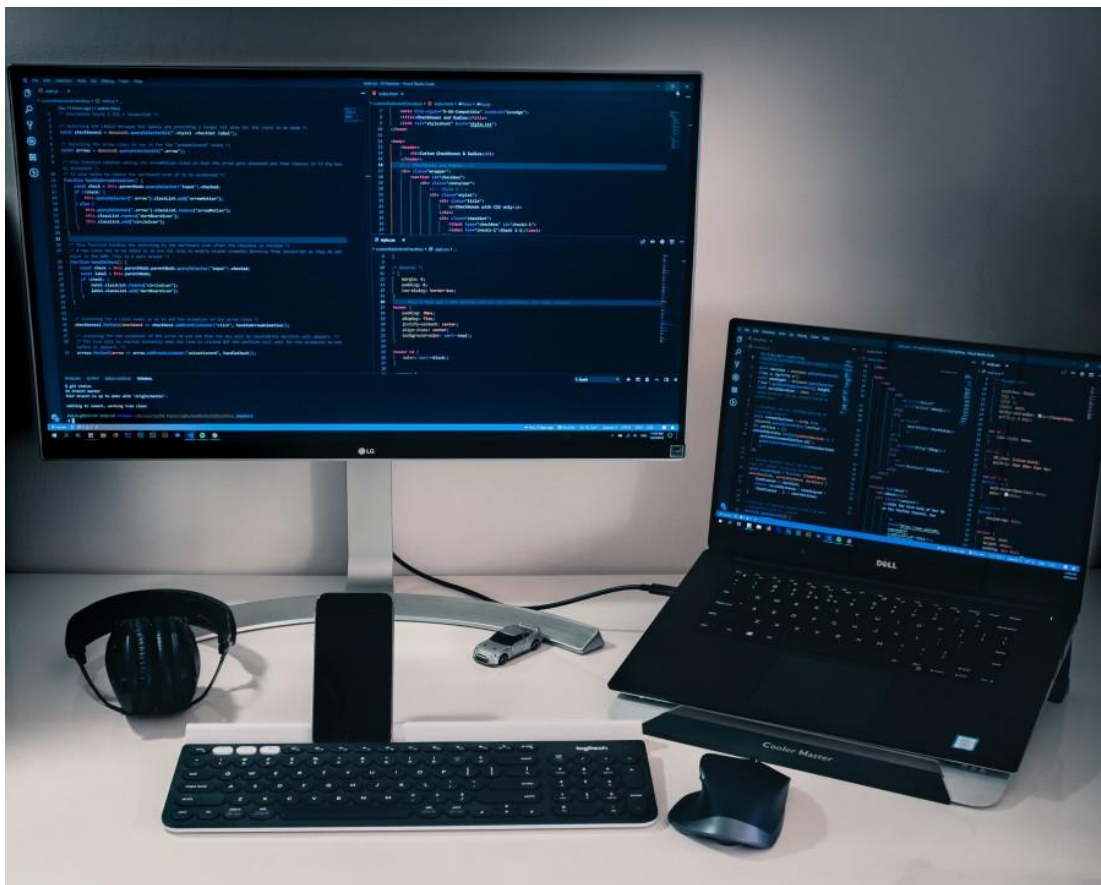
Team Highlights



One of the CDS services focuses on potential drug-drug interactions. Medication regimes for combination of conditions may include drugs that when combined, may result in adverse reactions. Drug to drug interaction is part of the CAREPATH CDSS, offering advisories of potential interactions. Healthcare professionals can amend a patient's medication via the AICP. When a new medication request is entered, the AICP will issue a request to the middleware of CAREPATH that will send a request to an active drug service e.g. the Interaction Advisory Service (DIAS) with the ATC codes of the patient's medication. DIAS will then return a list of all the

identified interactions amongst the substances that correspond to the ATC codes. The outcome on the AICP dashboard is being used twofold (1) In the drug-drug-interaction output for a specific patient (2) In the MERIS algorithm that as well processes the drug-drug-interactions to calculate a risk score for indication and warning of clinicians about the adverse medication situation of a patient.

Software as Medical Device (SaMD)



Medical devices are an essential part of modern healthcare, and they play a critical role in helping physicians diagnose and treat patients. They range from simple, low-risk devices such as thermometers and blood pressure monitors to highly complex devices such as MRI machines and robotic surgical systems.

Both hardware and software can be classified as medical devices. The classification of hardware and software as medical devices is determined by their intended use, risk level, and regulatory requirements.

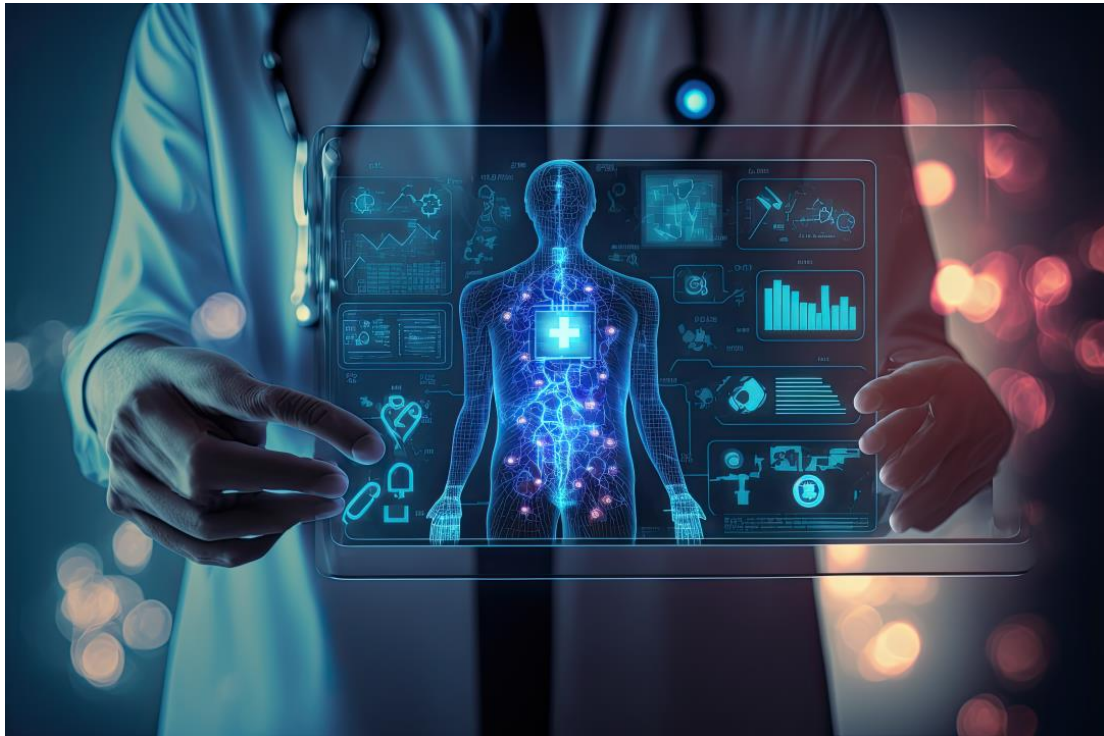
Hardware medical devices are physical devices used in medical diagnosis, treatment, and monitoring. Examples of hardware medical devices include diagnostic imaging equipment, surgical instruments, and implantable devices like pacemakers.

Software medical devices, also known as medical software, are programs or applications that are used for medical purposes. Examples of software medical devices include medical imaging software, electronic health record (EHR) systems, and clinical decision support systems.

Software and digital services are a rapidly growing field in the healthcare industry and are considered to be the new generation of medical devices.

[Read the full article.](#)

The ethics of artificial intelligence in Healthcare



Artificial Intelligence hold great promise in various sector including the healthcare. As the use of artificial intelligence (AI) technologies continues to infiltrate the healthcare space, the security of patient information, electronic health records (EHRs) and communications related to patients' medical care has become an increasingly critical focus point for healthcare organizations.

The proliferation of AI in healthcare has brought with it many questions about AI ethics that are being hotly debated in academia, industry, and the media.

As the healthcare industry moves, albeit slowly, away from paper-based documentation, AI technology and machine learning programs will be increasingly relied upon to capture and manage highly sensitive patient information.

While we have all seen some of the amazing things that AI technology has achieved such as the ChatGPT, there are drawbacks beyond questions about security risks.

One fact that may come as a surprise to some is that the data that was collected in the chatbot's programming process has not been updated in over 18 months.

[Read more in the full article.](#)

Event Participation

Interoperable E-Health System Using Structural and Semantic Interoperability Approaches in CAREPATH.

Dr Omid Pournik from the University of Birmingham - School of engineering presented parts of our findings in the CAREPATH PROJECT on "Interoperable E-Health Systems Using Structural and Semantic Interoperability Approaches in CAREPATH." at the International Conference on Informatics, Management, and Technology in Healthcare (ICIMTH) 2023.

If you're interested in learning more, [you can find the full paper here.](#)



Implementation of HL7 FHIR-Based Interoperability Profiles to Manage Care Plans for Multimorbid Patients with Mild Dementia, presented in MIE 2023

Gothenburg, Sweden. 22-25 May 2023

Medical Informatics Europe 2023.

Mert Genkturk, SRDC, presented the paper "Implementation of HL7 FHIR-Based Interoperability Profiles to Manage Care Plans for Multimorbid Patients with Mild Dementia".

The conference theme 2023 was "Caring is Sharing", and this was closely connected to the rapid development of health data sharing taking place both in Europe and globally. It focused on the opportunities of health informatics and the research within the EFMI community to enable trustworthy sharing of health data to improve human health.



Upcoming Events

[International Conference on Computers Helping People with Special Needs - ICCHP 24, JKU Linz, Austria, July 8 -12, 2024](#)



ICCHP

Past Events

Berlin, Germany. 25-27 April 2023

DMEA 2023

Yehya Mohamad, Fraunhofer, will participate in this event and will talk about the CAREPATH project in his presentations.

DMEA 2023 is Europe's leading Digital Health Conference and Trade Fair with more than 300 inspiring keynotes, practical lectures and discussion panels by and with experts from politics, self-administration, business and science. It includes a comprehensive exhibition with more than 500 manufacturers and suppliers presenting their products and solutions. More than 11,000 trade visitors from a total of 42 countries are expected.



Stuttgart, Germany. 28 April 2023

Accessibility Day of the Media University

Yehya Mohamad, Fraunhofer, will give a Lecture on "Opportunities and challenges for future living in an aging population" and present some of the CAREPATH work, amongst others. The programme topic for the event is: Inclusive design creates social responsibility - smart cities and smart homes for a self-determined life.

Consortium meeting held in Bielefeld, Germany, 3-5 May 2023

Our partner SKB hosted the Consortium meeting in Klinikum Rosenhöhe, in the Department for Geriatric Medicine. The meeting included some training sessions in preparation for the Technical and Validation Study.



View over Bielefeld from Sparrenburg. Photo credit: Karsten Wehner





First Project Review, 16 March 2023

After 18 months since the start of the CAREPATH project, the Consortium participated in its first review. We had a productive day presenting and discussing our work with the Project Adviser and two reviewers.

Second Project General Assembly in Milan, Italy 14-15 December 2022

The CAREPATH project Consortium met in Milan for the 2nd General Assembly and Consortium meeting. We had two fruitful days and we also had the pleasure to be joined by the Project Adviser, Aikaterini-Marina Kyrieri.



Gokce Banu Laleci Erturkmen, SRDC, presenting the progress in Task 3.4 Providing smart early warning decision support tools as Clinical Decision Support Services.



Pedro Abizanda, SESCAM, presenting the progress in WP5 for the clinical investigation.

We will be back in the spring with more news from the CAREPATH project!



Email us: carepath.newsletter@eclexys.com



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