

Charité testing digital interface for intensive care units to support nursing staff

AIQNET – overcoming system boundaries in clinics

(Stuttgart/Göppingen/Berlin) – AIQNET is a digital ecosystem for using medical data across different sectors and in compliance with data protection regulations. It focuses on using artificial intelligence to structure this data. TZM GmbH from Göppingen is involved in the project and networks medical devices with its medical product, the Universal Medical Gateway. This means nurses in intensive care units, for example, do not have to manually process, forward and archive the data from the numerous devices one by one. The technology is now being tested in the Berlin Simulation and Training Center (BeST) of Charité – Universitätsmedizin Berlin.

In the medical technology industry, every manufacturer creates its own data construct. This means that ventilators from different manufacturers do not “speak the same language”. To synchronize them, TZM GmbH from Göppingen, a highly innovative software service provider for connectivity and cloud solutions, has developed the Universal Medical Gateway (UMG). It translates these languages into a common standard and – as an overarching interface – establishes a connection between medical devices and platforms such as AIQNET. This makes it possible to collect medical data, analyse it using artificial intelligence (AI), logically structure it and make it accessible to the attending physician – regardless of which programs and devices are being used or which clinic or surgery you are in. BioRegio STERN Management GmbH from Stuttgart is coordinating the entire project, which is being funded by the German Federal Ministry for Economic Affairs and Energy.

“We are currently mainly active in intensive care units. In the past, the nurse would have to write down the data by hand – from the ventilator, for example. So, of course, transcription errors can occur, which our connection prevents. Everything runs in the background, and the data is automatically transferred to the system,” explains Bastian Mazzoli, Solution Manager Medical Connectivity at TZM GmbH.

As part of the AIQNET project, the start-up TZM was put in touch with the Berlin Simulation and Training Center (BeST). The BeST is a division of Charité, which operates an intensive care unit (ICU) for training, research and development. It provides an opportunity to try out new techniques and treatment methods, including the “walking ICU” concept. The UMG is to be used in this concept from April. Instead of being permanently sedated, the patients are able to move and even get out of bed – hence the name “walking ICU”. The technology and treatment methods have to adapt dynamically to the situation and understand each other.

“In the AIQNET project, we can really help overcome system boundaries and make medical data accessible, for example by pulling together various devices on a central monitor. The platform also enables users to configure devices in the clinics remotely or launch new drivers,” explains Bastian Mazzoli. Huge volumes of data are collected for medical reasons in every hospital. It is stored in various archive systems, frequently in an unstructured way – doctor’s letters on paper, examination and laboratory results as PDF files, often on CD-ROMs. AIQNET centres on using AI for the automated procurement, structuring and analysis of this data. “It is important that digitalisation makes bigger inroads in clinics,” emphasizes Mazzoli. “This topic has gained further traction in the wake of the coronavirus pandemic. Dialogue through AIQNET is essential in my opinion. It is vital that multiple clinics make an effort to work together and show how digitalisation and good collaboration can work.”

For an in-depth interview with Prof. Rainer Würslin, Senior Advisor, and Bastian Mazzoli, Solution Manager Medical Connectivity, from TZM GmbH, please visit:

www.aiqnet.eu

(Approx. 4,300 characters)

AIQNET
Medical Data Ecosystem

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages

About AIQNET:

AIQNET is a digital ecosystem that enables the use of medical data across sectors and in compliance with data protection regulations. The entire project is coordinated by BioRegio STERN Management GmbH, Stuttgart. Initiator and consortium leader is RAYLYTIC GmbH, based in Leipzig.

The consortium of 16 established medical technology and healthcare companies won the German government's AI petition in 2019 under the project acronym "KIKS". The project is funded by the Federal Ministry for Economic Affairs and Energy. Since January 2020, the project partners have been developing the technical infrastructure and its applications.

The focus is on structuring data using artificial intelligence and creating a legally secure framework. In the future, for example, the performance and safety of medical devices can be measured objectively and largely automatically. Administrative tasks of healthcare, e.g. documentation, can be handled by relevant applications. A special feature of the project is the close cooperation between industry, research and healthcare.

By providing access to technical and scientific data with great depth, the ecosystem offers future partners the opportunity to develop their own health applications at low cost and to benefit from the legally secure, validated framework of AIQNET. www.aiqnet.eu

About BioRegio STERN Management GmbH:

BioRegio STERN Management GmbH promotes economic development in the life sciences industry, helping to strengthen the region as a business location by supporting innovations and start-up companies in the public interest. It is the main point of contact for company founders and entrepreneurs in the Stuttgart and Neckar-Alb regions, including the cities of Tübingen and Reutlingen.

The STERN BioRegion is one of the largest and most successful bioregions in Germany. Its unique selling points include a mix of biotech and medtech companies that is outstanding in Germany and regional clusters in the fields of automation technology and mechanical engineering.

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