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Voice-based assistant systems in hospital and nursing care everyday life

Background

The German MedTech company Clinomic has already won several awards with the development of its intelligent, voice-controlled assistance system, which is designed to relieve hospital staff and optimize patient care through advanced AI algorithms. The young company, which was only founded in 2019, was recently named Digital Pioneer 2021 and won this year's German Innovation Award as well as the internationally prestigious Red Dot Award. Clinomic aims to revolutionize intensive care medicine by supporting medical professionals in making precise decisions through algorithms and optimizing the time factor in the process.

AI and voice-based patient monitoring

The digitization of healthcare is also increasingly taking place in hospitals, doctors' practices and clinics. This development is due not least to the fact that skilled personnel are scarce, especially in medicine. In 2020, numerous digital solutions were developed worldwide to make everyday hospital life as contactless as possible. The results of a survey involving nurses, caregivers and doctors show that across Europe, just under 30% of organizations have made significantly more intensive use of digital technologies. In Germany, digital solutions were adopted an average of 9.3% more. Many of these technologically advanced solutions will continue to be justified in the future, as they relieve and support the workload of specialist staff.

Patient documentation is a particularly time-consuming aspect of the day-to-day work of nurses and doctors in hospitals. This often still takes place traditionally on paper. According to a study, nurses spend an average of around 3 hours a day, and chief physicians even up to 5.5 hours, recording and transferring health-related patient data. The time spent on this is not spent on patient care. But it is not only the time factor that needs to be taken into account, because documentation also entails considerable costs. Results of a study show that around 21% of person-nel costs in medical and nursing services are caused by patient documentation.

The company Clinomic offers an innovative, digitized solution in this regard. The development of an AI-controlled voice assistant called Mona, which is attached directly to a patient's bedside, is intended to provide doctors and nursing staff with important patient information in the future. Mona is able to monitor clinical parameters and provide optimal support in the treatment of intensive care patients using state-of-the-art AI algorithms. Voice control allows clinical staff to easily request data while keeping their hands free to care for the patient.

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Mona is the first hardware-software platform in the field of critical care. The hardware impresses with advanced technologies such as AI chips, a 5G module for best connectivity and powerful radar sensors. Furthermore, the integrated high-resolution fisheye camera provides a 180-degree view and the microphones deliver clear audio even in a noisy environment.

Advantages of the innovative assistance system are the reduction of administrative as well as documentation effort by 25% each. Mona provides detailed information about the patients and treatment progress and delivers the answers both visually and acoustically. Thanks to the integrated 5G module, Mona is able to work without an Internet connection, which also ensures the security of patient data. The data does not leave the hospital and can be accessed at any time.

Do you find AI-driven patient monitoring exciting and would like more information? The approach of voice-based assistance systems in healthcare facilities is an important development for you? We would be happy to put you in touch with the company! Just contact us with your request. arcoro CONNECT links technologies, companies and people - personally and directly.

The interest in technologically advanced assistance systems in everyday hospital life is gradually increasing. Digitization makes it possible to save a tremendous amount of time and reduce manual documentation for specialist staff. Technologies that transform everyday work. Has your interest been piqued? Then you should take a look at our selection of national and international companies that have placed their focus on the field of voice-based assistance systems.

COMPANY	LOCATION	WEBSITE	FIELD OF EXPERTISE
Clinomic GmbH	Germany	https://www.clinomic.ai/de/	AI based voice assistant
Aiva Health	USA (CA)	https://www.aivahealth.com/	voice assistant
Voize GmbH	Germany	https://voize.de/	voice assistant for care documentation
DFC Systems GmbH	Germany	https://www.dfcsystems.de/	voice assistant for patient documentation
NursIT Institute GmbH	Germany	https://nursit-institute.de/	Digital care documentation
HandsFree Health Inc	USA (PA)	https://handsfreehealth.com/caregivers/	voice assistant for care takers and AAL
Sopris Health Inc	USA (CO)	https://www.soprishealth.com/	Digital care documentation

 arcoro Your Connection to MedTech Expertise

You would like to have a direct contact person? We have done the research for you! We would be happy to connect you with experts in voice technology. Award-winning companies and inspiring start-ups are actively shaping the future of medical technology - let them convince you of their innovative approaches!

INDUSTRY EXPERT	JOB POSITION	FIELD OF EXPERTISE
Arne Peine	CEO at Clinomic GmbH	Artificial intelligence & voice technology
Fabio Schmidberger	CEO at Voize GmbH	voice technology
Mike Cardillo	CEO at HandsFree Health	voice technology