

More humanity at the patient bed with Artificial Intelligence

The amount of data within hospitals increases rapidly, the documentation obligations become more severe – while the medical staff is a limited resource. Especially in the Intensive Care Unit the resource deficiency leads to growing challenges. Mona, short for „medical on-site assistant“, supports hospitals by performing tasks that would otherwise need to be done manually. The medical staff is relieved of routine activities that are time-consuming and cause errors. The smart medical assistant makes procedures both easier and safer and, as a result, ensures the quality of treatment. Mona is not able to obtain medical staff, but she does reduce staff workload and increases the efficiency, which results in a notable improvement for patients.

Mona shifts the focus on the relevant data

More time for the patients – the greatest desire according to medical staff. For this reason, time-consuming documentation and the data preparation are rather unpopular. Mona ensures less documentation due to speech recognition. The medical staff can ask Mona for anything related to the treatment or the patient. She listens, processes the query using safe, fast, and reliable AI technology to provide needed information directly at the patient bed. Relevant lab values and patient data are often covered under a layer of irrelevant noise data. Doctors need to distinguish relevant from irrelevant parameters under high time pressure. “In intensive care, around 1.000 data points arise per hour and per patient which must be reviewed by the medical staff to draw conclusions”, according to Dr. Peine, an intensive care specialist and one of the CEOs of Clinomic. Mona keeps track of all clinical measures, assuring the best and most accurate treatment for patients.

The assistance system at the patient bed

The smart assistance system can be operated intuitively, using state-of-the-art AI and machine learning to compare the individual disease progression with checklists, guidelines and treatment pathways to ensure legally required documentation of all measures. With Mona, no data ever leaves the hospital walls. Data security and integrity are the most important design principles in our software, keeping the patients’ data protected and on-premise at all time. The system integrates seamlessly into the hospitals’ IT. In addition, Mona enables an interdisciplinary, site-independent cooperation via telemedicine. Because of this interconnectedness, a fast and professional exchange with other intensive care specialists both within the hospital and between cooperating hospitals is possible at any time. The hardware terminal is equipped with state-of-the-art technology, such as a 5G Module, radar sensors and AI chips. A specialized high-resolution fisheye camera enables clear 180°-degree vision to capture both the patient and the caregiver.

One startup revolutionizes medical care

Not surprisingly, the voice-controlled assistance system is able to integrate into the ICU team smoothly. Its inventors, intensive care specialists Dr. Arne Peine and P.D. Dr. Lukas Martin, founded Clinomic in the year of 2019 as a spin-off of the RWTH Aachen. “We managed to bring Artificial Intelligence and Machine Learning directly to the patient who needs it most”, according to Dr. Lukas Martin. “It was our goal to rethink medical care. The result was Mona.” Mona assists healthcare professionals in the best treatment for critically ill patients. Mona helps to free space for what matters most: time with the patients.

Learn more about Mona: www.clinomic.ai/mona/

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