

## THE DEACONESS HOSPITAL SCHLADMING

## BETTER QUALITY CARE FOR YOUR PATIENTS

## CONTEXT

The Deaconess Hospital Schladming is one of Austria's most modern hospitals; the building and its IT infrastructure were built in 2007. The new hospital was set up as part of a public-private partnership by DKV, a company created especially for the purpose. DKV was a joint effort by Evangelische Diakoniewerk Gallneukirchen, the builder and legal owner of the hospital, Steiermärkische Krankenanstaltengesellschaft m.b.H, and VAMED, a leading European group of companies active in planning, building and managing complex healthcare facilities and medical tourism. The hospital opted for a centralized, fully integrated hospital information system from the Viennese company K.I.S. It uses this modular system to map all workflows, from bed and operating theater management to electronic medical records and costing. The hospital information system is appreciated by the technological, medical, nursing, administrative and financial controlling departments because it can connect to other systems and enable communication with external centers.

## CHALLENGE

After many years of using a separate hospital information system and patient data management system from the Berlin-based company Copra, the hospital wanted to extend the use of the hospital information system to integrate patient data management options and functions. The idea was to map all workflows in a single system. At the same time, a solution was required to enable largely automated real-time capture of all vital signs and to make this complex, time-consuming task easier for nursing staff system. But how could it manage, among other things, the interoperability of biomedical devices with the selected alarm management system?

## ABOUT DEACONESS HOSPITAL SCHLADMING

The deaconess hospital in Schladming, Austria, is the first hospital in Europe to implement the Capsule™ Neuron 2 Solution. This patient-centered system combines innovative medical device connectivity with maximum practicality for nursing staff for the benefit of patients.

The new hospital opened in 2006 and has 126 beds for internal medicine, surgery, trauma surgery, intensive care and obstetrics. Every year, more than 16,000 people receive treatment on an outpatient basis and there are 7,000 inpatient admissions.

The interdisciplinary intensive care unit has 6 beds. The anesthesia team supervises two operating theatres, the recovery room and, as necessary, the resuscitation room, computerized tomography, and delivery room.

“ This connectivity makes it easier for our staff to carry out medical and nursing care, and it allows us as IT managers to make a valuable contribution to the quality and security of patient data. At the same time, the existing infrastructure and our tried-and-tested information system was taken into account. That is a real bonus for our institution. Using Capsule’s innovative solutions not only makes our work easier — first and foremost it optimizes patient care. That is why we are very proud to be one of the first European hospitals, and the very first Austrian one, to use the new generation of Capsule. ”

— JOHANNES K ÖBERL  
HEAD OF IT AT KLINIK DIAKONISSEN SCHLADMING

### SOLUTION

The final choice was the Capsule Medical Device Information System® (MDIS). Compatible with a large number of medical devices as well as IT- agnostic, Capsule perfectly matched the requirements of all stakeholders, including medical and nursing staff, and IT and business managers. Capsule Medical Device Information System® (MDIS) collects and transfers medical data in complete security to all information devices within the hospital. With Capsule’s help, an HL7 exchange (a more standardized and secure method of data exchange) is generated. The data from the various medical devices is transferred via the MDIS and immediately integrated into the hospital information system. The intensive care unit is currently equipped with the Capsule Neuron 2. The system continuously gathers all vital patient signs from connected medical devices (patient monitors, ventilators and infusion pumps). It ensures timely delivery of data, where it is needed, when it is needed. Automatic data capture in the patient’s medical records makes it easier for nursing staff to care for patients, and enables more precise diagnoses, thus guaranteeing better treatment. The touch screen display on the Capsule Neuron 2 provides an immediate overview of the connection status to the various medical devices. This simplifies administrative tasks for nursing staff who can efficiently and immediately resolve potential problems at the patient’s bedside.

In view of its easy implementation and the brief staff training required, Capsule Neuron 2 has also been installed for use in the surgical anesthesia unit.

“ Our nurses quickly got familiar with this new application. They are extremely satisfied with the solution, as it saves time and ensures that patient data is recorded securely. Compared to the earlier solution, with Capsule Neuron 2 the nurses can very quickly identify whether the medical devices are working as they should. That was not previously possible, and that uncertainty caused considerable stress. Now, staff are much more relaxed — and the device is ergonomic and easy to use. Our nurses can therefore dedicate more time to their patients. ”

— ELISABETH KRAMMEL, RN  
HEAD OF THE INTERDISCIPLINARY INTENSIVE CARE UNIT



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