Dex 7
IoT Healthcare

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Scan	Case Number		Operating Room
	284110232		Room 1

Patient	Anesthesia Team		Surgery Team

Patient Inward Transfer	Anesthesia Specialist Service Start of Presence		Surgery Specialist Service Start of Preparation
[P3]	[A4]		[O1]

Patient Recovery Room	Anesthesiologist Start of Presence	Anesthesia End	Operating Surgeon Start of Measures
[P8]	[A5]	[A9]	[O4A]

	Anesthesia Start	Anesthesia Specialist Service End of Presence	Operating Surgeon Surgical Procedures	OR Measures End
	[A6]	[A10]	[O8]	[O11]

	Anesthesia Release	Anesthesiologist End of Presence	Operating Surgeon Stitches	Surgery Specialist Service End of Post-Processing
UPLOAD	[A7]	[A12]	[O10]	[O12]

Dex7 Timetable App
Supports Time and Capacity Management in Hospitals

Despite the shortage of skilled workers, the healthcare system has to cope with an aging society and the resulting increase in medical demand, while at the same time ensuring that key business figures and costs are adhered to. Every single optimization improves the results for patients, for medical staff, and in terms of cost efficiency. Our Dex7 IoT Healthcare solutions support you in implementing these optimizations, helping you to achieve your goals and overcome these challenges.
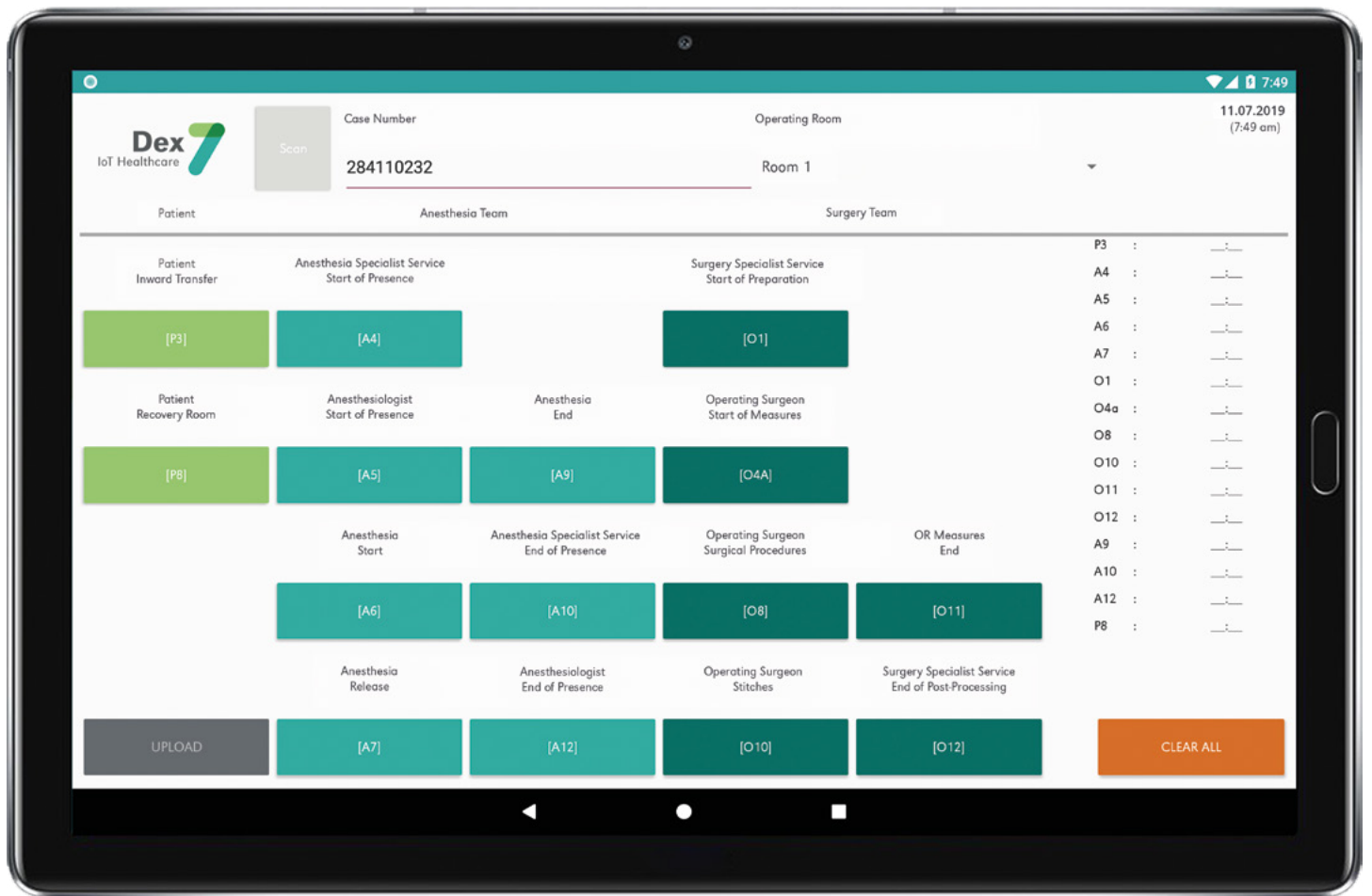
Surgeries are important for hospitals in several respects: They can earn a lot of money, generate high costs, and contribute to the image of a hospital. Therefore, it is all the more important that everything runs smoothly in this area. When taking a look at German hospitals, it becomes clear that operating room planning and implementation are not well coordinated, resulting in postponements and cancellations of surgical procedures.

Delay and postponement – due to emergencies or organizational shortcomings?

In general, intraoperative processes are not monitored seamlessly; instead, they are documented or reconstructed subsequently. Therefore, it is often impossible to determine whether an emergency, the course of the operation, or organizational reasons were responsible for the postponement. It will never be possible to schedule emergencies, but what about the other aspects?

Are all organizational conditions really optimized if, for example, patients regularly arrive too late or have to wait, documents are missing, OR teams cannot be present on time, or standard operations are planned with unrealistic time allowances? We developed the Dex7 Timetable App to help hospitals find the causes for delayed or postponed operations and unused OR capacities and to point out process optimizations.

One-touch mobile real-time data capture

Dex7 Timetable supports the OR team in the real-time acquisition of the 13 most important time-related KPIs relevant for surgical procedures in line with the HIS standard. The patient number is captured in the app using a barcode scanner. A single touch of the well-structured graphical user interface is all it takes to store all time periods from inward to outward transfer of the patient. Mobile tablet use ensures that all entries can be made immediately and without leaving the operating table. The entire team can thus remain with the patient during the entire procedure. After the operation, the data can be forwarded to the HIS or analysis tool via Wi-Fi, Bluetooth, or flash drive.

Mobility and intuitive use are decisive factors for the acceptance of real-time capture: Time tracking must not impair the surgical team in its core task. This is one reason why inpatient and more complex OR process documentation is maintained in an incomplete manner or not at all. A further advantage of real-time capture is data accuracy. The data reflects the actual course of the operation, cannot be manipulated, and forms a reliable basis for subsequent process analyses. In contrast, retrospectively or partially captured data poses the risk of imprecise information, which negatively impacts the informative value of analyses.

Benefits

- Seamless collection of real-time data
- Intuitive application ensures high user acceptance
- Mobile, semi-automated application
- Provides basis for further analyses for process optimization
- Low initial cost – high ROI

Technical prerequisites

Dex7 Timetable is available as an Android app. Data can be exchanged with HIS or analysis systems via Wi-Fi, LAN, Bluetooth, or USB.

We also provide the following:
- Installation service
- Front-end software
- Front-end support
- Back-end support

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