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Innovative Technologies for Improved Healthcare



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Innovation is at the heart of everything we do at Johnson & Johnson Medical Devices. But while we believe in striving forward with successful technologies, at the same time, we recognise the need to look at existing processes first and identifying how hospitals can synchronise and standardise these processes. The goal is optimisation so that we can generate high-quality, consistent data, and help hospitals transition efficiently when implementing new technologies.

At Johnson & Johnson, we use a partnership model where we sit down with everyone involved – the hospital management and the care teams – and understand the problem. Only if we understand the real challenge can we come up with effective solutions. The key is to tailor these solutions for each hospital, and use KPIs as indicators to measure success once these solutions are implemented.

Over the years, we have built technologies that can make the healthcare system more streamlined based on the problems/challenges that hospitals face. For example, how can we better connect healthcare professionals and patients? How can we make the operating room more efficient? How can we improve the hospital supply and logistics system? How can we help hospitals finance products of innovation? And finally, and most importantly, how can we make the OR a safer place? Often, we help care teams in their daily routine to improve quality and efficiency.

We want to address the bigger issues – that is our triple aim vision. Not only do we want to make hospitals more resource and cost efficient, and improve patient outcomes and experiences, but we also want to make the lives of caregivers easy and simple. We don't want to just generate data for the sake of it, but we want to create insights from this data. We want to make it more meaningful; we want to identify patterns and trends so that we can identify areas of improvement. And

while doing all these things, we want hospitals to not get bogged down with new technology but to integrate it smoothly within their existing hospital network and IT infrastructure. We believe that everything we develop should be scalable, supportable and deployable on a large scale.

Johnson & Johnson's value-based healthcare approach, CareAdvantage, includes a suite of hospital solutions and services. Here I'll focus on just three of our technologies that are making a difference: Care4Today, Surgical Process Institute (SPI) and C-SATS.

“JOHNSON & JOHNSON'S VALUE-BASED HEALTHCARE APPROACH, CAREADVANTAGE, INCLUDES A SUITE OF HOSPITAL SOLUTIONS AND SERVICES.”

Care4Today

Care4today is a tool designed to help healthcare professionals and patients remain connected. It can help create a better communication between the multidisciplinary team, the hospital, and the patients. Physicians can see patient status and stay up-to-date on all important elements. At the same time, patients can contact their care team through their smartphone app. They can see who is on the multidisciplinary team and can engage better with them. They can also see their progress/updates and schedule appointments. With the Care4Today platform, the hospital does not require heavy investment or major changes in their IT system. It is simply a matter of using the PC and app-based technology, and encourage patients to do the same.



SPI

SPI is a leading specialist for the standardisation and digitalisation of surgical workflows. It offers digital surgery solutions that enable surgeons to choreograph their OR guiding the entire care team seamlessly through every surgery. Surgical teams have access to an intuitive and modular platform allowing them to digitally design and implement their own surgical workflows, synchronised across different profession groups. These structured surgical workflows also support training and onboarding of new team members and surgical performance can be assessed and benchmarked, providing valuable insights. In addition, SPI's solution creates a customised, digital operative report automatically that records all steps of the surgical procedure. By supporting care teams to operate in a more synchronised way, SPI represents a first step towards smarter surgery, transforming the surgical experience to help our customers around the world deliver consistent, high quality care and efficiency in their OR.

C-SATS

C-SATS (Crowd-sourced Assessment of Technical Skills) is a technologically advanced, accurate and objective assessment system that is designed to help healthcare professionals improve their skills. The key areas where C-SATS can be effectively used to improve outcomes include surgery, pathology, nursing, device usage, homecare, and simulation. The C-SATS technology is very easy to implement.

There is a small tablet device that has to be placed in the operating room. The C-SYNC can connect directly with the hospital's existing media devices. C-SYNC records the surgery, after which the clinician can transfer the video which will be evaluated and analysed by experts. The doctor will receive feedback from these experts in the form of a report that will include a graph with domain scores and learning opportunities. C-SATS uses validation assessment tools such as GEARS and GOALS to measure clinical skill and potential.

C-SATS technology offers several benefits:

- Speed and reliability as it is a tool that can provide accurate results.
- Convenience because reviewers are available 24/7.
- Affordability as it can help save the cost for peer review.
- Accuracy as it provides accurate performance scores;
- Objectivity as it is completely unbiased and only gives statically-valid results that are based on multiple reviewers' feedback from across the world.
- Quantifiable results based on validated tools.

With a 'Solving Starts with Listening' approach, Johnson & Johnson introduces these and other CareAdvantage services and solutions by a process of needs identification and co-creation to achieve the desired results.

Find out more here: <https://www.jnjmedicaldevices.com/en-EMEA/service/care-advantage>.