Gonesse General Hospital (CH de Gonesse)
Optimizing patient care with expanded data analysis

Centre Hospitalier de Gonesse

The 956-bed Gonesse General Hospital serves approximately 350,000 inhabitants of a suburban community north-east of Paris, France.

Having completed a major physical transformation, adding 800,000 square-feet of facility, Gonesse General Hospital embarked on a digital transformative journey to modernize clinically and operationally. The cornerstone of this transformation is the hospital's approach to achieving interoperability and connectivity between medical devices and hospital information systems. Gonesse General Hospital developed a biomedical connectivity project for the entire facility with the aim of implementing an open and standardized communication platform that would support data flow between medical devices and the hospital's IT software. The project requirements included wide-ranging device and system compatibility as well as upgradeability to support expansion.

The implementation of an innovative medical device integration infrastructure and related patient monitoring system, both components of the Capsule Medical Device Information Platform (MDIP), has helped Gonesse General Hospital improve the quality of care and the everyday life of its nursing staff. The platform covers all of the hospital's clinical departments, from general care, to intensive care and the operating rooms. Gonesse and the GHT are among the first in France to have implemented a whole-hospital approach to connectivity.

In addition to the advantages of reliability and platform-sharing for both intensive and general care, the 'time saving' achieved through connectivity between medical devices and hospital information systems has made general care staff keen to participate.

" Implementing biomedical device connectivity has been a very important step within the hospital. It helps the healthcare staff deal with everyday issues, in particular the time needed to take vital signs and chart health information. Thanks to the Capsule solution, the margin of error is down to zero, healthcare staff save a great amount of time, and can spend more time with patients. We are also now able to fully take advantage of the health data in the Electronic Medical Record (EMR) to optimize patient treatment. "

— **Sophie Garde-Lebreton**
Biomedical Engineer

Innovate and digitize to better address the challenges of patient care

Gonesse General Hospital placed particular emphasis on the quality of its infrastructure during the 2016 renovation and made a point of ensuring that the facility was at the cutting edge of innovation.

It aimed to make the structure modern, upgradable and resilient, and to deal with the challenges involved in using the Electronic Medical Record (EMR) and related to the time healthcare staff spent charting health data. It accomplished all of this, including medical device connectivity, which is a central element.

A solution adapted to the everyday life of nursing staff

As part of the hospital's digitization dynamic and its policy of continuous improvement in the care and treatment of its patients, Gonesse General Hospital has set up a connectivity solution to collect and manage the recording of vital signs in the EMR and in intensive care and anesthesia software.

Quantifiable benefits

Since installing the Capsule connectivity solution, the hospital reported the following*:

Time savings
Capsule Vitals Plus patient monitoring system reduces charting time from 3 minutes 15 seconds to 1 minute and 10 seconds for the same parameters.

Reduced risk of charting errors
Automation through Capsule has reduced the risk of erroneous device data entry by the staff.

* Benefits measured and reported by Gonesse General Hospital biomedical engineering. Results on file.

Gonesse General Hospital was one of the first in France to benefit from deployment of Capsule MDIP and, in particular, Capsule Vitals Plus bedside monitoring across the entire hospital. With this solution, the hospital expected to reduce charting errors, be able to feed all the vitals that are routinely taken by the ward's nurses into the EMR, and free up the nursing staff to spend more of their time with patients.

Save time and improve care

The results show that Capsule's Vitals Plus monitoring solution ensures the reliable and secure recording of vital signs in the EMR and saves healthcare staff a significant amount of time. This allows patient care assistants and nurses to spend more time taking care of patients.

The implemented solution also provides data analysis that is useful, relevant and in context, with a view to improving patient care and IT system management.

Feedback from both technical teams was positive. They found the solution easy to administer, and it meets the needs of the healthcare staff.

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