Health systems are seeking to better address the vast amount of data available in the intensive care unit. IntelliSpace Console Critical Care extracts high fidelity data from multiple systems, including the electronic medical record, pharmacy systems, and lab systems. It consolidates those data sources and analyzes them to present an organ-based summary of the clinically relevant information when and where it is needed. It is designed to be organized around the way clinicians think and collaborate, helping them to get relevant information from large amounts of data.

Overcoming information overload in the ICU

Intelligent dashboard delivers organ-based insights to critical care clinicians to support informed and efficient decisions

Need
Extracting meaningful insights from the massive amount of data produced in the intensive care unit (ICU) may create a cognitive burden on clinicians, and contribute to medical errors.¹

Solution
IntelliSpace Console is a patient-centered clinical decision support dashboard that aggregates and analyzes data from medical devices, hospital information systems, and the electronic medical record, to give a dynamic display of a patient’s condition.

Benefits
Studies in the Journal of Medical Systems and Applied Clinical Informatics showed that systems showing consolidated data into organ systems like IntelliSpace Console contributed to improvements such as²,³:

- 55% reduction in medical error
- 44% reduction in cognitive load
- 50% reduction in ICU length of stay
- 37% reduction in hospital stay

Studies have shown that, compared to a traditional EMR, use of systems that create an organ-based dashboard - as IntelliSpace Console does - can lead to a reduction in medical errors by 55%² and a reduction in ICU length of stay by nearly 50%⁴.
Patient care in the ICU has been estimated to generate more than 1200 data points per patient per day.\textsuperscript{5}

Information overload could result in communication failures and errors of omission, which may affect patient outcomes. Systems like IntelliSpace Console that organize data into organ systems are designed to improve performance and efficiency in the ICU.\textsuperscript{2,6}

Compared to a traditional EMR, use of systems that create an organ-based dashboard – as IntelliSpace Console does – reduced time to task completion, provider cognitive load, and medical errors when viewing patient health data of critically ill patients.\textsuperscript{2,6}


Note: By reducing the time and burden to task completion and provider task associated with this task, it is anticipated that electronic environments designed in accordance with human-centered principles may increase their adoption and unlock their potential to have a positive impact on patient safety.


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