




Picis Critical Care  
Solutions

Picis Total Remote ICU  
Management Solution





Perhaps more than any other medical specialty, critical care medicine struggles with a staggering shortage of practitioners. It is not uncommon for a hospital with a dozen or more ICU beds to not employ a single physician who is trained specifically in critical care medicine. That would be like a hospital performing a dozen or more open heart surgical procedures each day, without a cardiac surgeon there to wield the scalpel. **According to a 2006 report to Congress by the U.S. Department of Health and Human Services, there will be less than 2500 FTE intensivists practicing in the U.S. in 2009.** The report estimates that to care for all ICU patients in the U.S. in 2009, at least 5200 intensivist FTEs will be needed. This represents an intensivist shortage of 52 percent in 2009, which is only projected to worsen.

As a result of the intensivist shortage, many hospitals have no access to critical care specialists. This is especially true in rural and community hospitals, while larger, urban and academic hospitals command the lion's share of practicing intensivists. This staffing dilemma has hospitals looking for ways to leverage scarce intensivist resources. For a hospital with too few intensivists, or a hospital system with intensivists only available in their larger, urban facilities, many hospitals are realizing that remote access to patient information represents a strategy for increasing the coverage of one clinician across many ICU patients in several distant locations.

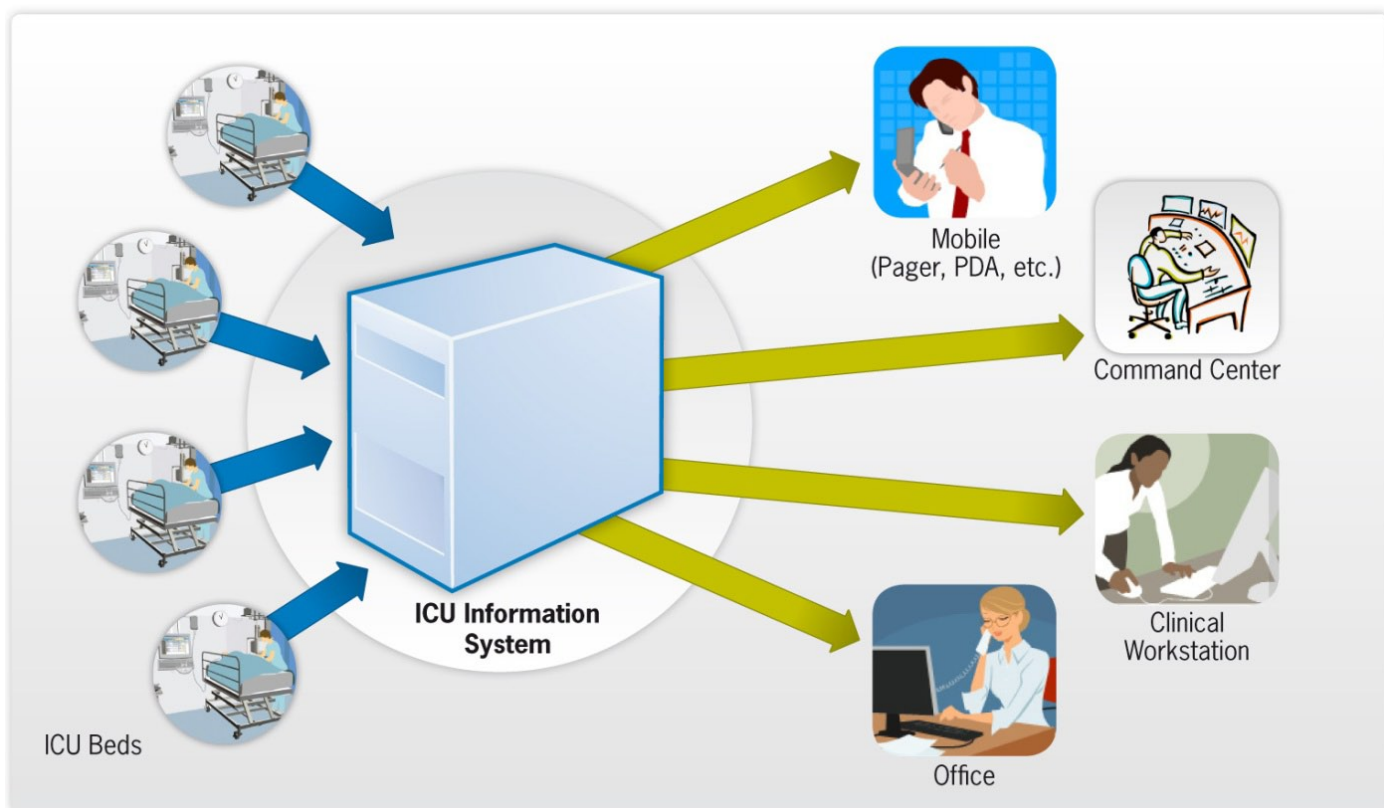
# Total Remote ICU Management: The Formula for High-Quality, Cost-Effective Care

Picis offers healthcare institutions the ideal solution for remote ICU management – one that takes full advantage of the advances in bedside automation, clinical decision support tools, and networking to make patient information available across the entire healthcare enterprise. The foundation of our solution is a clinical documentation and workflow management system fully designed to accommodate the specialized care processes provided in the ICU. Patient information generated from bedside devices, nursing documentation, and clinical notes are stored and displayed in one place, resulting in improved ICU care processes. Our total remote ICU management solution also offers automatic notifications based on clinician-defined rules and business intelligence, providing actionable insight about patient stays within the critical care environment. And with one solution that is used by the entire multi-disciplinary team – both at the point of care and remotely – there's no need for faxing or re-keying manual records to a separate and distinct database as with earlier generation remote ICU solutions.

Remote intensivists and other clinicians gain access to this patient information from any workstation connected to the hospital's network through a software-based remote viewer. When clinicians receive a phone call in the middle of the night from the resident physician on call, they can connect to Picis' remote access solution from their home computer and review the patient's information immediately. This saves precious minutes that might be lost if the attending physician had to drive to the hospital before being able to review the patient's chart.

The major advantage of our approach is one comprehensive solution that provides ubiquitous access for clinicians to the complete patient chart, wherever the clinician is located, and at a cost that is significantly lower than relying solely on older generation command center models.

## Total Remote ICU Management extends bedside automation anytime, anywhere clinicians need to view patient information



# Components of Picis Total Remote ICU Management



## Picis Critical Care Manager

Picis Critical Care Manager, part of the CareSuite® family of high-acuity solutions, is a comprehensive solution for the bedside automation of ICU patient documentation and workflow. Native to this application is an integrated remote access component that enables full access to the entire set of high-resolution patient data collected at the ICU bedside. Picis Remote Access can be used as the core application in a fully automated remote ICU command center, so that information necessary to support informed decisions is available, in near-real time, without the need for manual transmission, transcription or input. All physiologic data, medications, fluids, fluid balance, ventilator settings, laboratory results, scores, indicators, graphical trends, and clinical documentation are readily available to the clinician in the remote setting, and can be viewed and manipulated as if the clinician were right at the patient's bedside.



## Picis eView for Critical Care Manager

Picis eView for Critical Care Manager provides intensivists with the convenience of Web-native remote access to key ICU data for patients under their care. eView provides a unique ICU population view of significant physiologic data gathered by Picis Critical Care Manager bedside automation software through patient monitoring devices. Given the volume of patient information gathered in the ICU, eView provides concise information that helps support informed clinical decisions, including color-highlighted high and low thresholds that are clinician configurable by age group. The latest values for each field are displayed and automatically refreshed at configurable intervals. When more detailed information about a specific patient is needed, clinicians can simply select a patient from their list and then drill down to view a comprehensive summary.



## Picis InSight Critical Care

Picis InSight Critical Care™ is a business rules system that works with Picis Critical Care Manager, enabling the creation of rules based on clinician-defined criteria. Automatic notifications are vital to remote clinicians. If a clinician is staring at a computer screen at the bedside or in a command center, visual indicators may be enough. However, when they are caring for patients they do not always have the luxury of sitting in front of a computer, waiting for a window to pop up or an icon to change color. InSight Critical Care works the way busy clinicians work, notifying them when key changes occur, regardless of their location, in or out of the hospital.

# Clinician Access to the Complete Patient Chart – Anytime, Anywhere

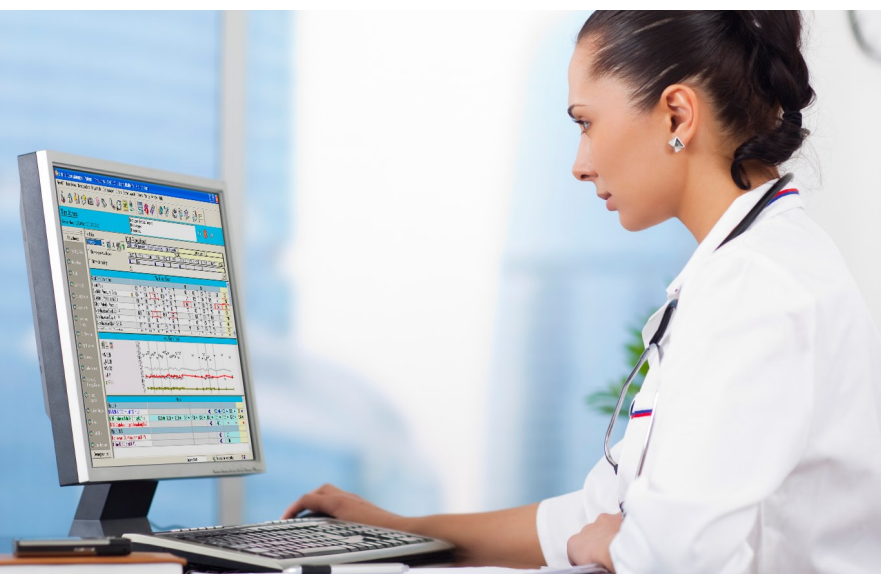
With no reliance on the creation of a physical, centralized command center, the Picis solution extends bedside automation of the intensive care unit (or any other high-acuity area of the hospital) to any location where the intensivist or clinician needs to view patient information. There is no need for a staffing solution to layer over manual, paper-based processes.

Our truly decentralized model for remote access does not require clinicians to be within commuting range of an ICU command center, to use a specific workstation or a separate application to view patient information. In addition to network-based workstations, clinicians can also access ICU patient information at any location and at any time using only a Web browser and a secure Internet connection.

Picis clinical applications represent the state-of-the-art in high-acuity healthcare automation. Every high-acuity patient location, from the OR to the PACU to the ICU, can benefit from the industry's only integrated solution for automating the care processes in these high-acuity locations. Couple this comprehensive approach to bedside information management with the most flexible and robust solution for remote access and decision support, and your hospital can extend the benefits of high-acuity automation to virtually any patient care location.

## Advantages of Picis Total Remote ICU Management over older generation models

- Untethered, unfettered clinician access to the complete, accurate, and timely patient chart – no matter where the clinician is located – in the hospital or at any mobile location
- Comprehensive business rules system expedites physician notification of changes in patient information and can be tailored to specific protocols and care guidelines
- Graphical data correlation tools and departmental reporting facilitates data analysis
- Contiguous record and database from pre-op to intra-op to post-op to ICU
- Cost savings of 50-75 percent of older command center models



*“Having this information at your fingertips during rounds helps physicians make patient care more efficient and more accurate because the data is right there and one can easily verify the validity of the data being presented. The fact that the solution is accessible from remote locations via secure network connections, helps clinicians provide more thorough care of hospital patients even during off hours.”*

director of critical care, large California healthcare network

# Remote Access Across the Continuum of Care

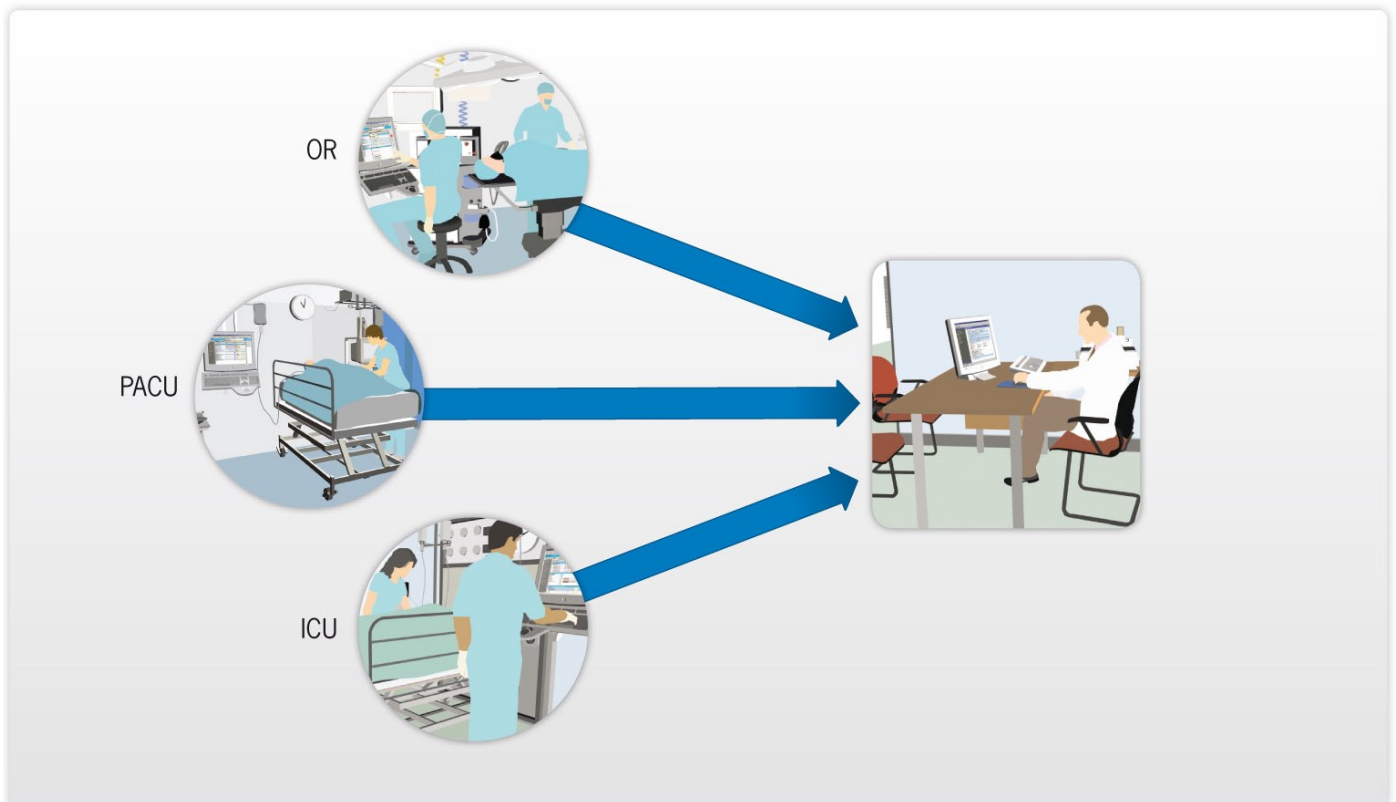
*“Automated critical care systems are central to helping improve patient care. By allowing clinicians to view all patients and trends in a single snapshot and provide quick access to lab results, Picis helps hospitals to increase the efficiency of their critical care departments as well as optimize their documentation.”*

**Joaquin Alvarez, M.D.**, chief of intensive care  
Fuenlabrada University Hospital

While the primary use of remote management has focused recently on the ICU, patient care can be enhanced by remote access and collaboration across the continuum of care, beginning in the preoperative setting, through surgery, recovery and the ICU. Picis offers the only seamless high-acuity solution in healthcare IT. This means that with one remote access application and a single integrated database, any user at any location has access to all of this information.

Picis Remote Access can be used to review patient data from any location in which a Picis clinical application is installed. Every high acuity patient location from the OR, PACU, intermediate care, and any monitored bed in the hospital can all benefit from Picis automation, which then means that all of that high-resolution clinical data can be accessed from virtually anywhere. An anesthesia provider can review data for a patient in the PACU, while s/he is in the OR with another patient. A nurse in the ICU can review the data for a patient currently in the OR, who is coming to the ICU after surgery. A surgeon can review the ICU chart for a patient who will be coming to surgery, while s/he sits in the office.

## Picis solutions offer remote access to patient information from the OR, PACU and ICU



## Picis Offers a Total Solution That Addresses the **Dilemma of the Intensivist Shortage**



Automates documentation of data from bedside devices



Provides full remote access to ICU patient charts



Notifies clinicians of changes in patient information, by pager, e-mail, or on screen



Provides actionable business intelligence about ICU patient stays



Offers web-native access to ICU patient population data



Creates a contiguous record for high-acuity patient care

Picis total remote ICU management is an essential strategy to address the dilemma of the intensivist shortage. Given the voluminous patient information generated from bedside devices, nursing documentation, and clinical notes – the only solution that enables efficient and effective critical care management is one that is used by the entire multidisciplinary team at the point of care and remotely. This results in continuous communication between caregivers, operational efficiencies and cost savings, and improved ICU care processes.

## Delivering Results in High Acuity®

Picis provides comprehensive software and services that **automate the clinical documentation and business practices of high-acuity care, which includes the ED, operating rooms, post-anesthesia care units and intensive care.** These solutions target the areas of the hospital where costs are the greatest and patients are most vulnerable. Proven in more than 1,700 hospitals worldwide, Picis software and services are designed to help our customers transform their high-acuity services into highly efficient business operations.

For more information, visit [www.picis.com](http://www.picis.com) or call **781 557 3000**.



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