

*"This means that less than 15 percent of ICUs receive dedicated intensivist care, with physician and population demographics suggesting the potential for an even greater future shortage."*  
—The Leapfrog Group

## Who's in Charge of the Patient's Care?

The patient's physician remains in charge of care. eICU staff are simply executing the bedside physician's care plan when they cannot be in the ICU. Should a patient's condition deteriorate, the attending physician would be notified immediately. eICU® intensivists pick up on subtle "early warning" changes in status that might have gone unnoticed without continuous physician monitoring. And because eICU® intensivists are expertly trained in critical care, they can act immediately, communicating orders from the eICU® facility.

## Who Provides the Personnel to Staff the eICU® Center?

The Inova enVision eICU® team works with the hospital/health system every step of the way, forging a lasting partnership for critical-care excellence. Our clinical operations team provides all necessary ongoing support, while our account managers and technicians ensure timely response and customer satisfaction.

## Inova: Experience and Vision in eICU® Care

Inova Health System's enVision eICU® has helped care for critically ill patients since 2004, when it was one of the first hospital systems in the country to implement the VISICU eICU® technology. We monitor 134 ICU beds across Northern Virginia — 24 hours a day, seven days a week — with this world-class remote-care delivery system. All of our physicians are board-certified or board-eligible intensivists, while our critical-care nurses have more than 400 years of cumulative nursing experience.

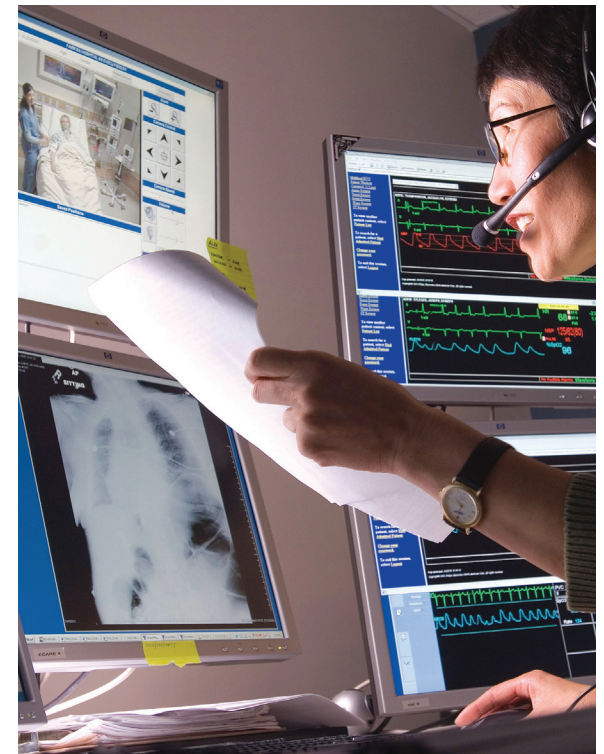
Inova Health System is a not-for-profit healthcare system based in Northern Virginia that consists of hospitals and other health services, including emergency and urgent care centers, home care, nursing homes, mental health and blood donor services, and wellness classes. Governed by a voluntary board of community members, Inova's mission is to improve the health of the diverse community it serves through excellence in patient care, education and research. Inova provides a healthy environment for its patients, families, visitors, staff and physicians by prohibiting tobacco use on its campuses.

[inova.org](http://inova.org)



**Inova**  
Health System

**enVision eICU®**  
Program



# enVision eICU® Program

## Solving Your Critical Care Challenges

Inova's enVision eICU® is an innovative, remote-care strategy designed to improve ICU care processes while leveraging scarce intensivist resources. With the enVision eICU®, a centralized center of intensivist physicians and critical-care nurses help bedside teams watch over their sickest patients, and prioritize and guide interventions.

The eICU® program adds to existing bedside care by providing remote intensivist monitoring and oversight when this expertise cannot be at the bedside.

*There is a severe shortage of intensivists, with fewer than 6,000 actively practicing in the United States. This means that less than 15 percent of ICUs receive dedicated intensivist care, with physician and population demographics suggesting the potential for an even greater future shortage.*

## How Does enVision eICU® Work?

An intensivist-led eICU®-based care team located apart from the hospital partners with onsite ICU clinicians. The eICU® center does not house patients or replace the hospital ICU; instead, it operates like an air-traffic control center, providing additional remote or after-hour support.



Experienced specialty physicians and critical-care nurses are networked to multiple ICU patients across a health system by voice, video and data. These eICU® physicians and nurses execute predefined plans or intervene in emergencies when a patient's attending physician is not in the ICU, enabling staff to reduce the time between problem identification and intervention.

## What Results Can I Expect from the eICU® Program?

Analysis of severity-adjusted data from more than 185,000 patients treated in intensive care units at more than 155 different hospitals showed that hospitals using VISICU's eICU® Program:

- Reduced mortality rate by 29 percent
- Reduced ventilator acquired pneumonia rate by 81 percent
- Achieved 100 percent ventilator bundle compliance

As documented in VISICU's literature, hospitals realized the following financial results:

- Reduced length of stay by 10–20 percent for ICU patients
- Reduced costs for ancillary ICU services by 6–18 percent
- Freed-up ICU beds added 15–20 percent "new" capacity

## What Are the Clinical Benefits of the eICU® Program?

*Software alerts help caregivers avoid adverse events.* Care interventions occur earlier because the eICU® monitors and evaluates patient physiologic and laboratory data for thresholds and trends. Alerts signal when a patient is straying "out of bounds," enabling the eICU® physician to intervene — often precluding an adverse event.

*Clinical documentation.* Tools are provided to capture all patient data in one place, easing documentation, reporting and reference. Multi-specialty care teams are able to reference a complete profile of the patient and their care for improved assessment and treatment, spending less time spent running for the data, and more time on what they do best — caring for the patient.

*Online decision support.* Standards of care are maintained and often improved because clinicians have online access to the VISICU evidence-based care guidelines. A comprehensive and interactive online decision-support tool supports algorithm-driven interventions for diagnosis and treatment. Care recommendations are regularly updated using evidence-based medicine, society guidelines and input from an international panel of experts.

*Outcomes tracking.* Clinical outcomes, resource utilization and operational efficiency are tied to Agency for Healthcare Research & Quality (AHRQ) recommendations and are regularly tracked with VISICU's Power Report system. Patient queries can also be customized for research purposes.

## New eCareMobile Technology

The enVision eICU utilizes eCareMobile technology to provide disaster support to local emergency departments through collaboration with Northern Virginia Hospital Alliance-Regional Hospital Coordinating Center (NVHA-RHCC).

## How Do I Find Out More Information?

To learn more about how Inova's enVision eICU® can help with the care of your ICU patients, call 703-289-8608, email [theresa.davis@inova.org](mailto:theresa.davis@inova.org)