Gaining Efficiencies Through Process Improvement:

Optimizing Blood Analysis Processes in Critical Care

The i-STAT® System accelerates patient care decision-making by providing critical lab test results at the bedside
Critical care departments are faced with unprecedented challenges

Pre-analytic process inefficiencies

- Need for real-time lab results
- Multiple blood analysis steps slow results, diagnosis, and treatment
- Shortages of nursing staff
- Possibilities for patient errors

Meeting established protocols

- “Goal-directed therapy” protocols
- Vent weaning protocols
- Patient safety protocols

Associated patient care issues

- Need to reduce blood loss
- Need to reduce patient length of stay (LOS)
- Costs from delays and prolonged treatments
Bedside testing with the i-STAT System provides lab-quality test results in minutes

**Can help improve department efficiency**
- Provides real-time results that help expedite diagnosis and disposition of patients
- Streamlines the blood analysis process
- Helps increase productivity by reducing the time required to collect, process, and report results with fewer handoffs

**Can help meet established protocols**
- Accelerates availability of critical lab tests for greater control of patient management
- Reduces potential for error through fewer process steps

**Benefits patients and hospital**
- Allows faster response to patient needs
- Uses just two or three drops of blood
- Reduces test turnaround times
- Improves financial outcomes by increasing efficiency

*The comprehensive i-STAT platform includes the most commonly ordered tests in all critical care areas:*
- blood gases
- chemistries
- lactate
- electrolytes
- hemoglobin & hematocrit (H&H)
- coagulation
Traditional blood analysis processing can delay critical test results

The complicated, multistep process slows lab results, delays diagnosis and treatment, and allows ample opportunity for variances and handoffs that can lead to patient errors.
Using just two or three drops of blood, the *i-STAT System* analyzes the patient sample with minimal steps—including reducing the traditional eleven pre-analytic steps to just one.
Providing lab-quality results fast when every minute counts

Real-time test results improve efficiency of critical care units
- Bedside testing provides real-time, lab-quality test results in minutes
- Reduces the number of complex steps in the blood analysis process, saving time and reducing the potential for errors

Accelerates patient care decision-making
- Accelerates availability of critical test information to help expedite diagnosis and disposition of patients
- Provides clinicians with greater control over patient management

Most comprehensive bedside testing platform available
- Includes the most commonly ordered tests in all critical care areas:
  - blood gases
  - chemistries
  - lactate
  - electrolytes
  - H & H
  - coagulation
- Helps department meet established protocols

A system that works with all critical care departments
- Easy-to-use design allows clinicians to leverage the power of a single, integrated bedside testing solution
- Improves financial outcomes by increasing efficiencies in critical care units and throughout the continuum of care


To learn more about how the i-STAT System can help turn around your critical care department, contact us at: www.abbottpointofcare.com