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Experience Fast, Easier, Lab-Quality Cardiac Results at the Point of Care

The Stratus CS 200 Acute Care Analyzer: Speed and quality for better patient care

Lab-Quality Results Delivered with Speed and Efficiency

In the Emergency Department, there's one thing you are always running against—time. Acute care must be timely, safe, and effective. That's why Siemens Healthcare Diagnostics created the Stratus® CS 200 Acute Care™ Analyzer.* It delivers lab-quality results at the point of care with the speed that is needed for cardiac patients. Its broad menu of tests enables rapid decision-making for better patient care.

Bidirectional Connectivity

Transmit Results Securely
Connectivity with third-party data managers provides safe and secure results transmission.

Lock Out Operators or Users Whenever Necessary
Bidirectional connectivity allows you to lock out operators from your middleware solution.

Check System Calibration Remotely
Remote monitoring saves time by eliminating the need to walk to the analyzer to check when calibration is due.

Increase the Number of Operators Who Can Use the System
Expanded memory accepts up to 500 operator IDs.

*Not available for sale in the U.S. Product availability varies by country.

Simple Steps for Consistent Results

Obtain lab-quality results in as fast as 14 minutes with minimal user interaction.

The system accepts whole blood in the collection tube; no sample preparation needed.

The bar-code reader simplifies entry of patient IDs, sample IDs, and operator IDs—just scan each bar code for fast access to analyzer.

Touch-screen user interface provides visual cues indicating consumables needed for processing a sample.

System spins blood into plasma via the rotor—no user manipulation needed.

Run up to four assays per patient sample

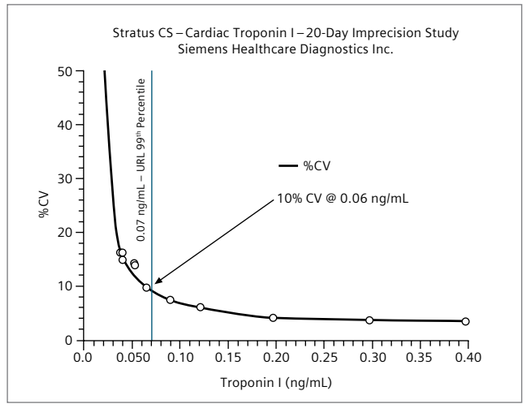
TestPaks are individually packaged, providing you with the flexibility to select appropriate assays based on patient need.

See results where and how you need them

Results automatically print out right on the instrument. Output results on archivable paper with an optional external printer. Connectivity options automatically transmit results to the patient record.

The Tests You Need and the Speed You Rely On

High-quality laboratory performance in a point of care setting can save time for both you and your patients. The Stratus CS 200 System automatically spins whole blood to separate plasma for testing, thus reducing the risk of biohazard exposure and providing high-quality test samples.



First Guideline Acceptable Sensitive Troponin I Method[1]

With an imprecision level of ≤10% at the 99th percentile of a normal population,[2] the Stratus CS Troponin assay is considered a guideline acceptable sensitive assay as defined by the ESC/ACC committee. The assay can be used for the measurement of cardiac Troponin I to aid in the diagnosis of acute myocardial infarction (AMI) and in the risk stratification of patients with acute coronary syndrome (ACS).[3]

POC Troponin Analytical Characteristics[4]

System	99th Percentile (µg/L)	10% CV (µg/L)	% CV at 99%	Risk Stratification?
Siemens Stratus CS System	0.07	0.06	10.0%	Yes
Abbott i-STAT® System	0.08	0.10	16.5%	Yes
Alere Triage® System (CE marked)	0.02	11% (at 5.0 µg/L)	16.7% (at 0.06 µg/L)	No
Radiometer AQT 90® Flex System (TnI)	0.023	0.039	17.7%	NA
Radiometer AQT 90 Flex System (TnT)	0.017	0.025	15.2%	NA
Mitsubishi Pathfast® System	0.029	0.014	5.0%	No
BioMerieux Vidas® Ultra System	0.01	0.11	27.7%	No
Roche Cardiac Reader® System (TnT)	NA	NA	NA	No

NA – Data not available.

	Troponin I	CKMB	NT-proBNP	D-dimer	*hs*CRP	Myoglobin	βhCG
Assay Range	0.03 – 50 µg/L (30 – 50,000 ng/L)	0.3 – 150 µg/L (ng/mL)	15 – 20,000 pg/mL	6 – 5,000 µg/L FEU (ng/mL FEU)	0.1 – 50 mg/L	1 – 900 µg/L (ng/mL)	0.5 – 1,250 IU/L (mIU/mL)
Analytical Sensitivity	< 0.03 µg/L (< 30 ng/L)	0.3 µg/L	15.0 pg/mL	6.0 µg/L FEU	≤ 0.1 mg/L	1.0 µg/L	< 0.5 IU/L
Reproducibility (CV)	10% at 0.06 µg/L (60 ng/L)	4.0% at 3.7 µg/L	4.4% at 96.6 pg/mL	4.1% at 412 µg/L FEU	6.8% at 1.16 mg/L	3.4% at 56 µg/L 4.6% at 142 µg/L†	2.5% at 27.0 IU/L**

Please refer to the assay insert sheets for more detailed information.

† Upper end of reference range = 82 µg/L
§ In conjunction with a non-high clinical pretest probability (PTP) assessment model.
‡ In heparinized plasma samples of PE patients with non-high, pre-test probability.
** Total precision measured with Bio-Rad Control Liquichek, level 2.

D-dimer[5]

An important test performed in patients with suspected thrombotic disorders

- Aids in the diagnosis of venous thromboembolism (VTE) with high negative predictive value for VTE
- Clinical studies supporting the ability to exclude pulmonary embolism (PE)[§]
- Assay sensitivity of 97.9%. Negative predictive value (NPV) of 99.1%[‡]
- High precision at the cut-off level

Troponin I

The preferred biomarker for myocardial necrosis[2]

- Meets internationally accepted guidelines (ESC/ACC/AHA/NACB/IFCC)[2,4,6]
- Excellent sensitivity and cardiac specificity[3]
- Meets the definition of a guideline acceptable sensitive assay

βhCG[7]

Early pregnancy detection marker, to guide diagnostic testing decisions

- Test can be run with same sample as Troponin I
- Precision (CV): 2.5% at 27.0 IU/L**
- Analytical sensitivity < 0.5 IU/L

CardioPhase® hsCRP

Helpful for assessing risk of future cardiovascular disease[8]

- Stratus CS 200 hsCRP assay Analytical Measurement Range (AMR) = 0.1–50.0 mg/L[9]

NT-proBNP[10]

Aids in diagnosis and assessment of severity of congestive heart failure and used for risk stratification of patients with acute coronary syndrome and heart failure

- Accepts samples collected in lithium heparin tubes, enabling simultaneous testing with troponin and D-dimer
- Natrecor® (nesiritide) BNP therapeutic pharmaceutical has no significant cross-reactivity[§]
- Correlation with central lab instruments using NT-proBNP

Myoglobin[11]

For patients in need of early diagnosis

- Excellent negative predictive value rapidly appears in the blood after injury

CKMB Mass[6,12]

The alternative to Troponin I

- Aids in diagnosing acute myocardial infarction

Natrecor is a registered trademark of Scios, Inc.

Siemens Is Your Partner in Achieving Your Hospital's Goals

Whether your focus is on improving outcomes, reducing costs, or achieving accreditation, the Stratus CS 200 System can help you achieve your goals.

Harmonizing the Central Lab and Point-of-Care Testing

As more assay systems are devised for point-of-care (POC) testing, identical criteria must apply to both central laboratory methodologies and POC testing systems.[13]

Siemens has been proactive in taking steps to ensure the alignment of cardiac Troponin I assays in the central laboratory and near-patient setting. Harmonizing cTnI and NT-proBNP is an increasingly important issue for laboratory medicine.

Stratus CS 200 System	Harmonization with the Following Central Lab Instruments[14]
✓	Dimension® RxL Max® Integrated Chemistry System
✓	Dimension EXL™ Integrated Chemistry System
✓	Dimension Vista® Intelligent Lab Systems
✓	ADVIA® Chemistry Systems
✓	ADVIA Centaur® CP System
✓	ADVIA Centaur XP System

This also makes the Stratus CS 200 System a perfect fit as a backup solution in central laboratories and satellite sites.

Simplified Steps for Consistent Results

Engineered for reliable performance, the Stratus CS 200 System combines ease of use with lab-quality results. Obtain results in as fast as 14 minutes with minimal user interaction.

The operator inputs a collection tube of whole blood, and the system pipettes it and spins it into plasma. Less hands-on manipulation reduces potential for error—simply input the sample and walk away.

Meet Laboratory Standards in your ED, Coronary Care Unit, or STAT Lab

Stratus CS 200 Troponin I, designed as a guideline acceptable sensitive assay, meets accreditation guidelines with an imprecision level of 10% at the 99th percentile of normal population.

Comply with Necessary Guidelines

As your partner in point of care testing, Siemens works to help you reduce door-to-result time while complying with laboratory accrediting agencies, allowing the use of a daily system check (electronic QC) in lieu of daily testing of liquid controls.

- Daily system check with a programmable time lock-out includes:
  - Optical detection system
  - Mechanical alignments
  - Fluid-handling system
  - Temperature
- If required by your institution or local regulations, liquid-control check is also available and includes programmable time/range lock-outs.

Reduce Time to Results with Point of Care Testing

In an acute-care setting, point of care tests can provide rapid results and enable a rapid response. According to the ESC Guidelines, "Point of Care tests for troponins should be implemented when a central laboratory cannot consistently provide test results within 60 minutes."[2]

Point of care testing with a Stratus CS 200 System can deliver Troponin I results from a guideline acceptable sensitive assay in as fast as 14 minutes to enable physicians to diagnose patients faster, which may lead to better outcomes and shorter hospital stays.[15]

Provide Reliable Answers to Critical Questions

Siemens Healthcare Diagnostics is driven to create forward-thinking answers that can change the way your laboratory operates for the better. A recognized leader in cardiovascular-disease testing, Siemens provides a comprehensive and expanding menu of cardiac biomarkers across a broad spectrum of instrument solutions that help manage patients throughout the continuum of cardiovascular disease.

ADVIA Centaur XP Immunoassay System

Dimension Vista 500 Intelligent Lab System

Dimension EXL Integrated Chemistry System

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