



AcQtrac™ System

Hemodynamic Assessment

Technical Specifications

CMS covered indications CPT 93701

- Optimization of fluid management in patients with congestive heart failure
- Differentiation of cardiogenic from pulmonary causes of acute dyspnea
- Optimization of atrioventricular (A/V) interval for patients with A/V sequential pacemakers
- Monitoring of continuous inotropic therapy for patients with terminal congestive heart failure
- Evaluation for rejection in patients with a heart transplant as a predetermined alternative to a myocardial biopsy
- Management of drug-resistant hypertension (at contractor discretion)

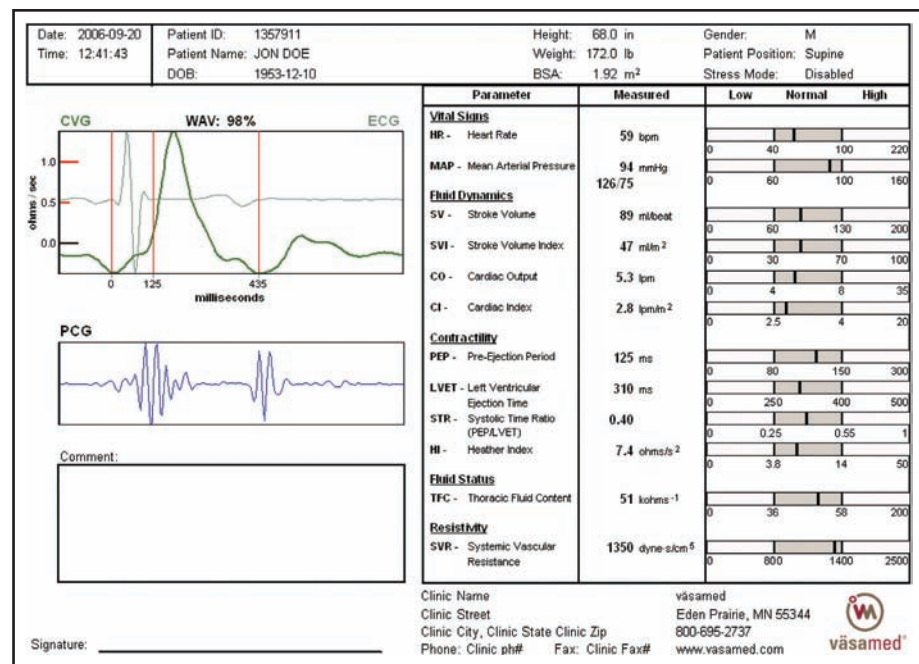
Test Confidence Indicators

- Waveform Accuracy Value (WAV)
- Visual display of ensemble averaged waveform
- Displayed waveform markers

Trending for

- Cardiac Output
- Cardiac Index
- Stroke Volume
- Stroke Volume Index
- Systolic Time Ratio
- Heart Rate
- Thoracic Fluid Content
- Systemic Vascular Resistance

The AcQtrac System provides portable noninvasive hemodynamic assessment at the point of care. The system measures pertinent cardiac and hemodynamic parameters using impedance cardiography (ICG) and displays the information in a proprietary **Cardiovasculogram™ (CVG) waveform**. The AcQtrac System's PC-based software features intuitive and easy-to-use functionality, and a touch screen display. Results are immediately available to print or save as a PDF or standard text (CSV) file format.



The AcQtrac System's comprehensive report provides information on the hemodynamic state in a graphical interface.

The AcQtrac System Components:

- Data Acquisition System
- AcQtrac Application Software (Windows XP® Operating System)
- Integrated Roll Stand
- Printer
- Isolation Transformer
- ICG Cable
- Noninvasive Blood Pressure (NIBP) Module
- Phonocardiogram (PCG) Sensor
- Data Port Cable
- AC Power Cord

TECHNOLOGY



Ensemble Averaged Waveforms

- Cardiovasculogram (CVG)
- Electrocardiogram (ECG)
- Phonocardiogram (PCG)

Beat-to-Beat Waveforms

- Display of accepted & rejected beats

CVG Waveform Displayed Markers

- Beginning of pre-ejection period
- Aortic valve opening
- Aortic valve closing

Equipment classification

- Class II (per 21 CFR part 870.2770)
- UL / IEC 60601-1, CAN/CSA C22-2 No. 601.1 requirements

Signal Processing

- Cardiac Amplifier Technology with R-wave triggered ensemble averaging (patented)
- Signal acquisition through four electrodes
- Programmable data acquisition sample window settings of 10, 20 or 30 seconds

Reporting

- Detailed color CVG report with patient information, CVG waveform, hemodynamic parameters with normals, and comments
- Customizable with facility information
- Beat-to-beat display report
- Trending display report

Data Export

- Test report storage in PDF format for offline review and archiving
- Test data export into standard text (CSV) file format, to allow offline integration into medical record systems, spreadsheets, or data analysis applications.

Patient Interface

- Four latex-free, low impedance hydrogel monitoring electrodes
- Medical foam pads provide stable adhesion and extended life
- Integral lead wire ensures secure connection

Operating system

- Windows XP® Operating System

System inputs/outputs

- 7: USB 2.0
- 1: RS232
- 1: Ethernet

Printer

Standard PC compatible

Electrical Power Requirements

100 – 240 VAC, 50/60 Hz, 300 VA max

Environmental Range

- Operating temperature: 5 to 40° C (41 to 104° F)
- Operating humidity: 15% to 95%, non-condensing
- Transport & storage: -20 to 60° C (-4 to 140° F)

Test Platform

- Mobile cart, DAS, monitor, PC, isolation transformer, printer
- Dimensions: 61 x 53.4 x 152.4 cm (24 x 21 x 60 in.)
- Weight: 62.2 Kg (137 lbs.)

Patented Technology

- Cardiac Amplifier Technology with R-wave triggered ensemble averaging (U.S. patent # 5,178,154)



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