

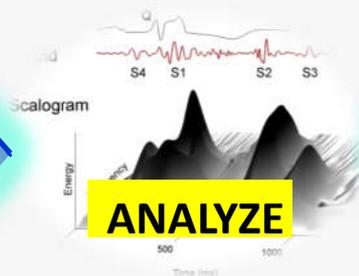
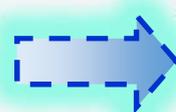
AUDICOR®

ACOUSTIC CARDIOGRAPHY

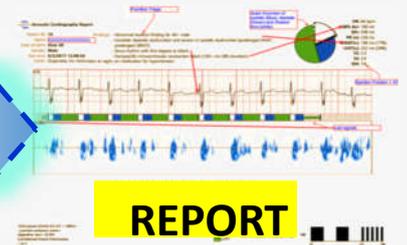
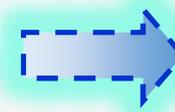
WEARABLE & AMBULATORY HEART FAILURE DIAGNOSIS AND MONITORING



APPLY



ANALYZE



REPORT

Non-Invasive | Easy to Use | Quick Report | Affordable

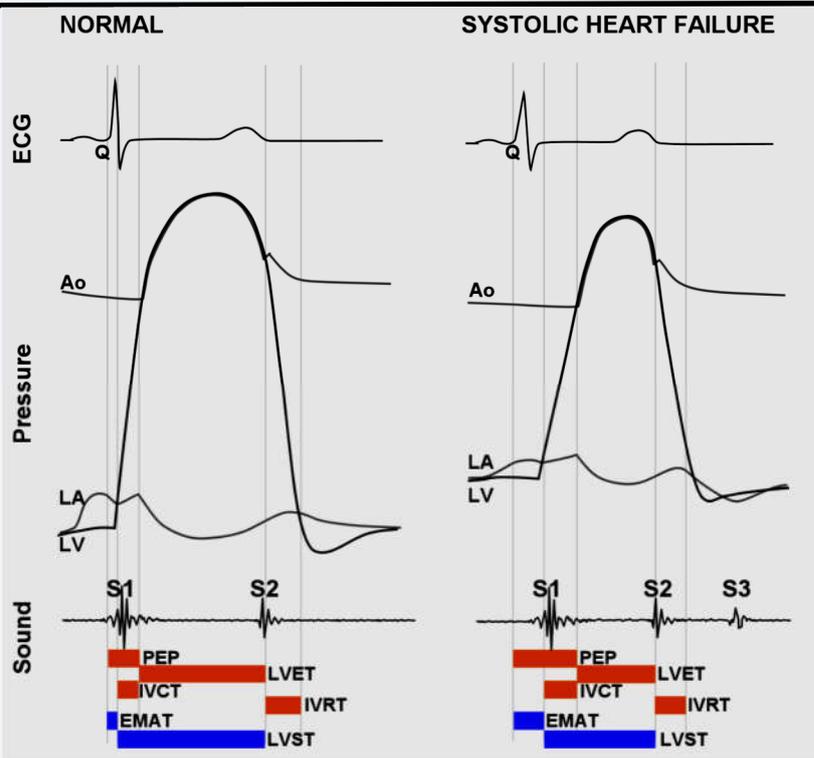
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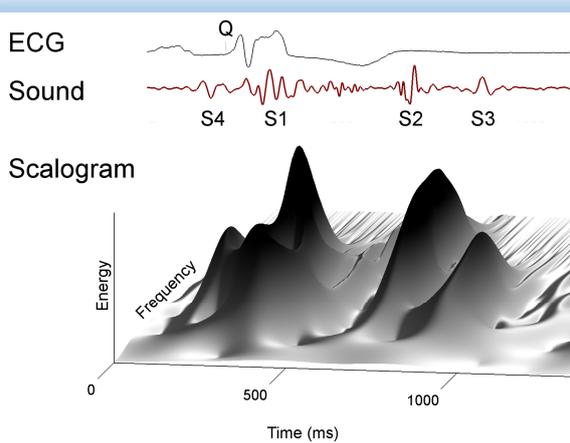
Heart Function Analysis Using Simultaneous Analysis of EKG and Phonocardiography



Audicor's technology combines the time-proven, classic concept of auscultation with the latest techniques for detecting, recording, documenting and analyzing the Heart Sounds associated with normal and abnormal cardiac function. **Audicor synchronizes these unique hemodynamic recordings** with standard ECG modalities to generate reports to evaluate Heart Failure status in outpatient, inpatient and ambulatory settings **enabling the assessment of hemodynamic changes to optimize medical and device based treatment options.**

Diagnosis and Management of Heart Failure are critical components of effective and economic cardiac care worldwide and **AUDCOR®** integrates seamlessly with all elements of the Heart Failure management cycle, and **provides significant clinical value with respect to better diagnosis, objective guidance of treatment and prognostic assessment.**

Clinically Validated Cardiac Function Parameters and Biomarkers



With the state-of-the-art, proprietary techniques for **simultaneously recording, documenting and analyzing contemporaneous digital ECG and cardiac acoustical data** associated with normal and abnormal cardiac function.

Unlike other cardiac diagnostics which focuses on either the electrical or the mechanical capabilities of the heart, **Acoustic Cardiography analyzes both aspects of the heart function concurrently.** The combination of recorded Heart Sounds and ECG data constitutes a set of **diagnostically orthogonal data**, which increases the value in

diagnostic and prognostic assistance to clinicians.

Acoustic Cardiography allows continuous simultaneous recording of Heart Sounds and ECG data over **short, intermediate and long periods.** This permits the use of Acoustic Cardiography in a vast variety of cardiovascular monitoring modalities, and enables consistent guidance in in-patient, out-patient and ambulatory environments.



Triaging, Prehospital and ED Evaluation of Heart Failure

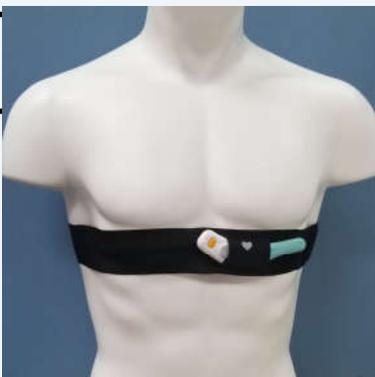
Acoustic cardiographically recorded measurements have been correlated with both cardiac catheterization and echocardiographically determined hemodynamic parameters. Heart sounds captured by acoustic cardiograms have proven to assist clinicians in assessing dyspneic patients in the emergency department by utilizing the strong specificity of an S3 for detecting acute decompensated heart failure. Acoustic cardiography offers a cost-efficient, easy-to-use method to optimize the devices used in cardiac resynchronization therapy. *..W. Frank Peacock, MD;1 Alex Harrison, MD;2 Alan S. Maisel, MD , (CHF. 2006;12(4 suppl 1):2–7)*



Hemodynamic Assessment in ICU before Discharge

Pre-discharge night-time EMAT may be a better predictor for post-discharge adverse events than measures of the pulsatile hemodynamics in patients with AHFS. Ambulatory acoustic cardiography may be useful in identifying the high-risk patients hospitalized for AHFS.

“Night-time electromechanical activation time, pulsatile hemodynamics, and discharge outcomes in patients with acute heart failure” Chun-Chin Chang et al ESC Heart Failure 2015; 2: 184–193

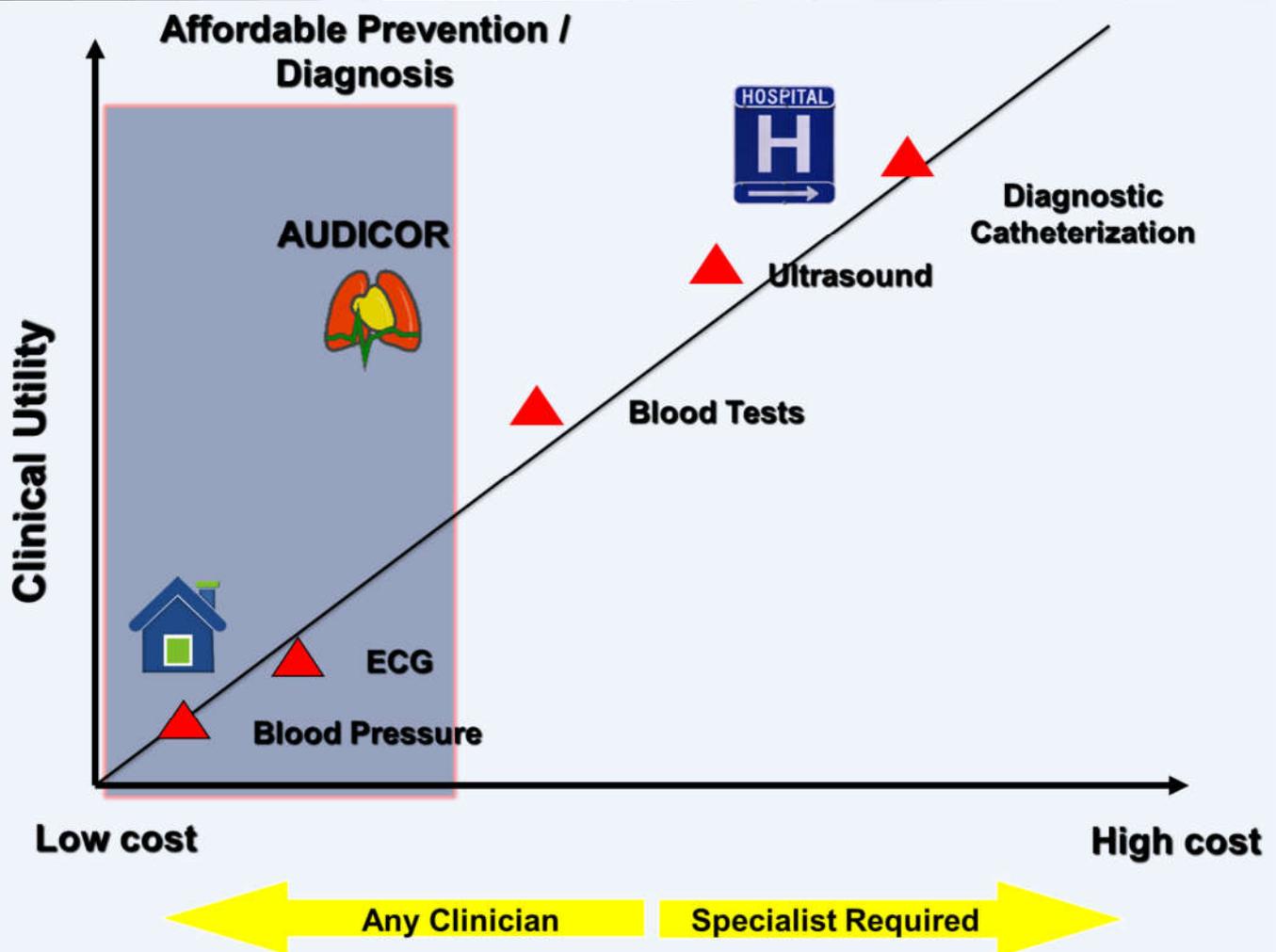


Real Time Monitoring of Cardiac Function during Therapy

In patients suffering from HF with reduced ejection fraction, EMAT is prolonged whilst LV contractility (dP/dt) is low. Overall, these highly specific measures have been found to improve the diagnostic accuracy for decompensated HF and LV dysfunction [41,42]. Ambulatory acoustic cardiography holds promise as it provides an assessment of the electromechanical performance of the heart. There could be a role for use in HF follow-up in the home setting to aid optimization of therapy. ***“The utility of novel non-invasive technologies for remote hemodynamic monitoring in chronic heart failure “, Thato Mabote, Expert Rev. Cardiovasc. Ther. 12(8), 923–928 (2014)***

Patients with systolic dysfunction early after anthracycline treatment had worse outcome. Acoustic cardiography was able to identify these patients with a high sensitivity and specificity. Based on the findings of this study, we propose a simple algorithm to monitor patients undergoing anthracycline-containing chemotherapy. ***“The clinical value of echocardiography and acoustic cardiography to monitor patients undergoing anthracycline chemotherapy”, Toggweiler S, et al. Clin Cardiol. 2013.***

Clinical Utility Transcends Across the Cardiac Care Continuum



Audicor's Acoustic Cardiography has demonstrated clinical utility by facilitating the **assessment of left ventricular cardiac function** in many areas of disease management, in particular, the **clinically and economically challenging area** of Diagnosis and Management of Heart Failure.

Acoustic Cardiography recordings have been shown to be **accurate and cost effective tool** for the diagnosis of decompensating Heart Failure; the prognosis of hemodynamic stability after discharge; and the titration of Heart Failure therapy options.



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