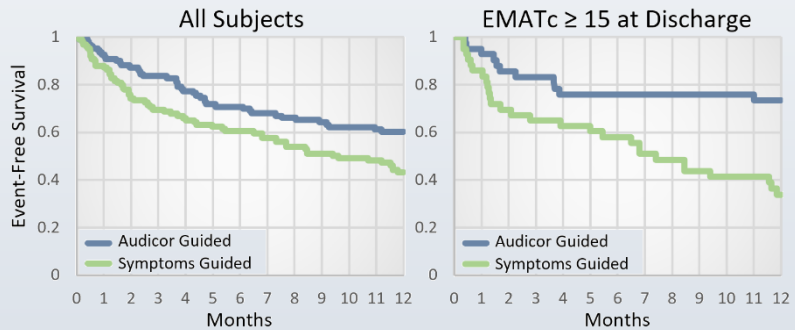


## Heart Failure

### Audicor Guided Treatment

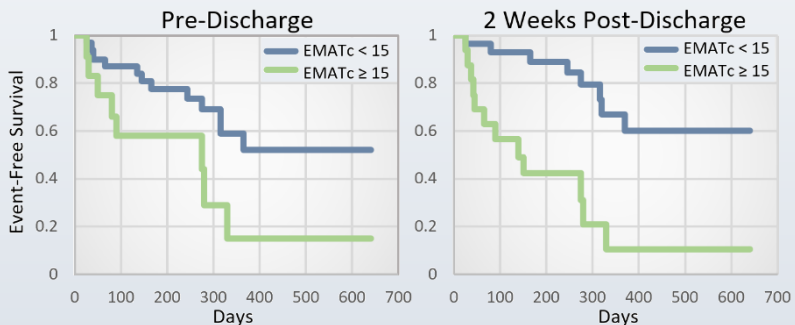
Audicor-guided management was superior to conventional therapy, with significantly improved clinical outcomes in a randomized control trial in Taiwan. A high-risk group of patients (based on EMATc at discharge) showed the greatest improvement.



Sung, S.-H., Huang, C.-J., Cheng, H.-M., Huang, W.-M., Yu, W.-C., & Chen, C.-H. (2019). Effect of Acoustic Cardiography-guided Management on One-year Outcomes in Patients with Acute Heart Failure. *Journal of Cardiac Failure*. <http://doi.org/10.1016/j.cardfail.2019.09.012>

### Discharge Risk Stratification

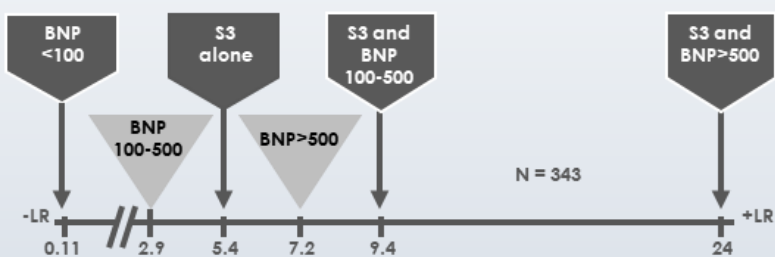
EMATc predicts cardiac readmission and mortality. BNP, echo, and other methods cannot. Studies have shown that a simple Audicor test at discharge can identify high-risk HF patients. A follow-up test 2-weeks post discharge can identify these patients with even greater accuracy.



Chao T, Sung S, Cheng H, Yu W, Wang K, Huang C, Chen C. Electromechanical Activation Time in the Prediction of Discharge Outcomes in Patients Hospitalized with Acute Heart Failure Syndrome. *Internal Med*. 2010, 49: 2031-2037.

### Diagnosis

The combination of BNP and acoustic cardiography provides the most accurate diagnostic and prognostic information in the acute care setting.



Collins SP, et. al. S3 Detection as a Diagnostic and Prognostic Aid in Emergency Department Patients with Acute Dyspnea: Primary Results from the HEARD-IT Multinational Investigation. *Annals of Emergency Medicine*. 2009; 53: 748-757.

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