



The FDA-cleared Al Algorithm¹ **That Predicts HF Hospitalizations**



Addressing Heart Failure: A Vital Concern for Patients and Health Systems

- » HF affects 64 million² people globally
- » HF is a leading cause of hospitalization over the age of 65 in the US³
- » Hospitalizations for HF place financial burden on healthcare systems
- » Reducing HF hospitalizations requires a multifaceted approach, including strategies for prevention and early detection

SignalHF, the First Manufacturer-Agnostic HF Prediction Score Based on Cardiac Implantable Electronic Devices (CIED) Data

- » SignalHF4 is an FDA-cleared AI algorithm
- >> Uses data collected from CIEDs (PM, CRT-P, ICD, CRT-D)
- » Algorithm is agnostic for Biotronik, Boston Scientific and Medtronic CIEDs using 90 days of physiological data, demographics, lead measurements and episodes & therapies
- >> Evaluates the risk of HF hospitalizations in the next 30 days
- » Generates alerts for SignalHF score above alert threshold

SignalHF Performance ⁵	SignalHF by Implicity FORESEE HF (ICD/CRT-D)	SignalHF by Implicity FORESEE HF (IPG/CRT-P)
Sensitivity	60%	46%
Unexplained Alert Rate PPY	0.66	0.47
Lower Quartile on Alerting Time ⁶ (in days)	35	37

Advancing Care Quality for Individuals with Heart Failure

- » Identify indications of deterioration in heart failure patients
- » Evaluate the risk of hospitalizations due to heart failure
- » React by adjusting the care and treatment for your heart failure patients

¹ SignalHF is an FDA-cleared Class II medical device, see the instructions for use for more information

² Groenewegen, A., Rutten, F. H., Mosterd, A., & Hoes, A. W. (2020). Epidemiology of heart failure. European Journal of Heart Failure, 22(8), 1342–1356. doi:10.1002/ejhf.1858

³ Healthcare Cost and Utilization Project (HCUP). (2011). HCUP Facts and Figures: Statistics on Hospital-Based Care in the United States, 2009. Agency for Healthcare Research and Quality (US).

Signal HF is compatible with ICD/CRT-D from Medtronic, Boston Scientific and Biotronik and IPG/CRT-P from Medtronic and Biotronik able to measure thoracic impedence

⁵ "Heart Failure Events Prediction Algorithm for Patients Implanted With Multi-brand CIED – FORESEE-HF StudyResults". N. Varma. EHRA 2024 ⁶ Number of days before the event when the alert is reached (for 75% of the events)





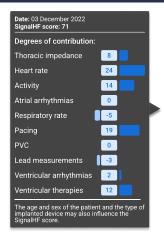
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Heart Failure at a glance



An explicable and actionable score



- » Leverage contributing factors to quickly pinpoint relevant physiological signals
- » Identify clear next steps based on SignalHF's assessment:
 - ♦ Check patient symptoms, with a phone call or an automated SMS
 - ♦ Pause the alert to follow up on the patient in a few days
 - ♦ Adapt medication