

ReDS™ – ON THE SPOT ASSESSMENT OF LUNG FLUID CONGESTION FOR EMERGENCY DEPARTMENTS



The Emergency Department - Where Every Second Counts

In the emergency department (ED), every second counts. ED providers must provide accurate, actionable assessments quickly and confidently, to keep patients safe and to improve the speed and efficiency of patient flow. When Heart Failure patients arrive at the ED presenting with shortness of breath, ED providers must determine if their symptoms relate to Heart Failure. After confirming that a patient is suffering from Heart Failure, ED providers must determine which patients require admission and which can be safely treated in the ED and released.

ReDS™ - Triage Support Tool

ReDS™ is a noninvasive, easy-to-use system for the monitoring and management of lung fluid in patients with Heart Failure. ReDS™ provides on-the-spot, 45-second readings of a patient's lung fluid that help physicians and advanced practice providers quickly assess the patient's condition. By providing an accurate, fast, and absolute measurement, ReDS™ helps improve triage and decision support in the emergency department, and help avoid unnecessary hospitalizations.

"Unlike a chest x-ray or BNP level, a ReDS™ reading quantifies for you how much fluid a patient has in his or her lungs," says Dan Bensimhon MD, Medical Director of the Advanced Heart Failure and Mechanical Circulatory Support Program at Cone Health System in Greensboro, NC. "Armed with this information, the ED provider can then make a more educated decision about who needs to be admitted versus who can be safely treated in the ED and discharged home to follow-up with us in the Heart Failure clinic."

ReDS™ in the ED - Your Decision Support Tool

- Accurate assesment of signs of congestion
- Immediat readings of patient lung fluid levels
- Improved triage and decision support
- Enhanced ED efficiency and Heart Failure program engagement
- Support screening process for admission into the hospital

As shown in clinical trials *

Nguyen G, Fisch E, Sekhon N, et al. Remote Dielectric Sensing in Emergency Department Dyspnea. Acad Emerg Med. 2019;26(1s):S290*

.Volz E, Tordella M, Miller R, et al. ReDS Vest Use in the Emergency Department: Identify High Risk Heart Failure Patient. J Card Fail 2019;25(8S):S68-69



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ReDS™ – OPTIMIZING CARE AT THE OUTPATIENT CLINIC



Helping Heart Failure Clinics Get It Right...Fast

At many centers, Heart Failure clinics have become the cornerstone of providing guideline-directed medical therapy, allowing Heart Failure patients to live better, longer lives. That means aggressive medical therapy including titration of RAAS-inhibitors, beta-blockers and other life-saving agents. However, Heart Failure clinics also serve as the front line in keeping patients from bouncing in and out of the hospital. *"Keeping people dry is one of the main things we can do to keep them from going to the ED,"* says Dan Bensimhon, MD, Medical Director of the Advanced Heart Failure and Mechanical Circulatory Support Program at Cone Health System in Greensboro, NC. *"In a recent study we did at our center, we were surprised to find that one-third of the patients who walk through our door have high levels of lung water."*

Accurate Assessment of a Patient's Condition

With the ReDS™ system, practitioners can get a noninvasive, accurate and actionable measurement of a patient's lung fluid in just 45 seconds. *"The ReDS™ device can be used in the clinic for a spot check on patients to correlate readings with their Heart Failure signs and symptoms or to look for lung congestion in patients who may have equivocal symptoms,"* says William T. Abraham, MD, FACP, FACC, Director of the Division of Cardiovascular Medicine at Ohio State University.

Using the ReDS™ system also helps to add some certainty to volume assessment and allow a wide range of practitioners to feel more comfortable treating Heart Failure patients. *"It certainly makes me a better practitioner, but it also provides our nurse practitioners, physician assistants and pharmacists the same information and enables them to suggest changes to a patient's diuretic regimen more quickly and confidently,"* says Dr. Bensimhon. *"This allows the clinic to flow more smoothly and leads to more targeted care."*

Heart Failure clinics can also offer difficult-to-manage patients the ability to have the ReDS™ system at home so they can remotely monitor patients, ensure compliance and fine-tune their regimens to keep them dry and feeling better.

ReDS™ - Decreasing the Rate of Hospital Readmissions

- After discharge, periodically assessing patients with lung fluid for signs of congestion
- Health care providers have the ability to work together to titrate diuretics quickly
- Optimizing the care with non-invasive tool in the clinic or at home
- The ability to keep patients drier, safer and out of the hospital
- Hospital readmission reduction of 79% (1)

(1) Early use of remote dielectric sensing after hospitalization to reduce heart failure readmissions
ESC Heart Failure 2021; 8: 1047–1054
Published online 18 December 2020 in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/ehf2.13026



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