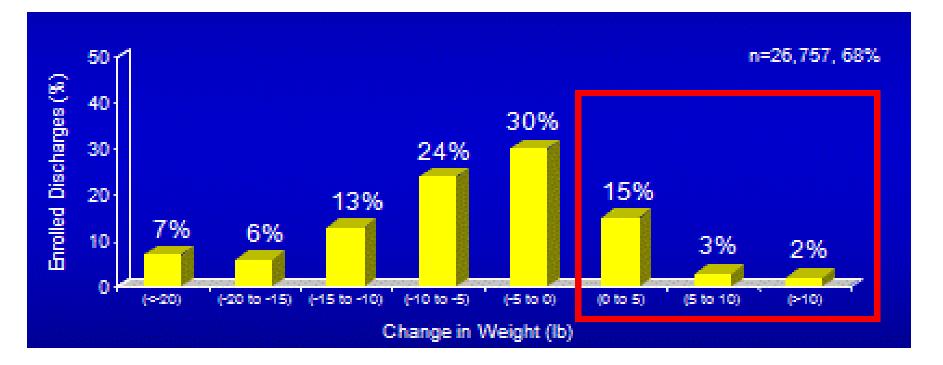
ReDS Point of Care: Rapid Follow-Up (RFU)

Sean Pinney, MD Professor of Medicine Icahn School of Medicine at Mount Sinai Director, Advanced Heart Failure & Cardiac Transplant Program



Inadequate Decongestion in ADHF



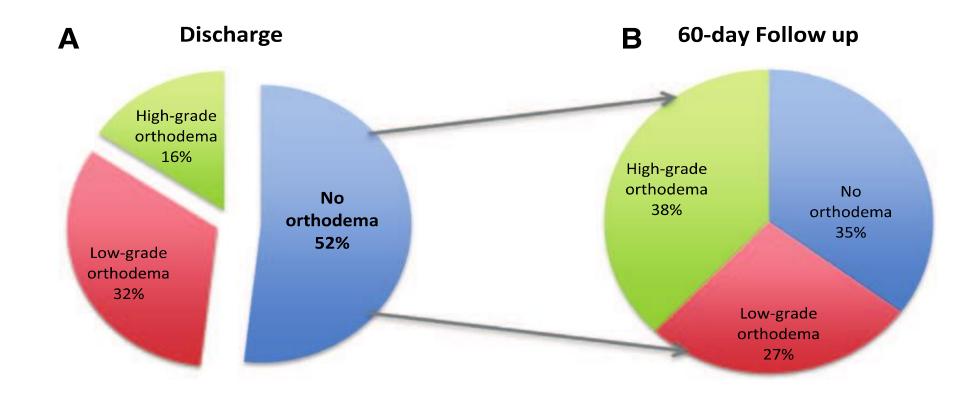


Change in Weight From Admission to Discharge

Note: For the chart, n represents the number of patients who have both baseline and discharge weight, and the percentage is calculated based on the total patients in the corresponding population. Patients without baseline or discharge weight are omitted from the histogram calculations.

Congestion at Discharge and Follow-up

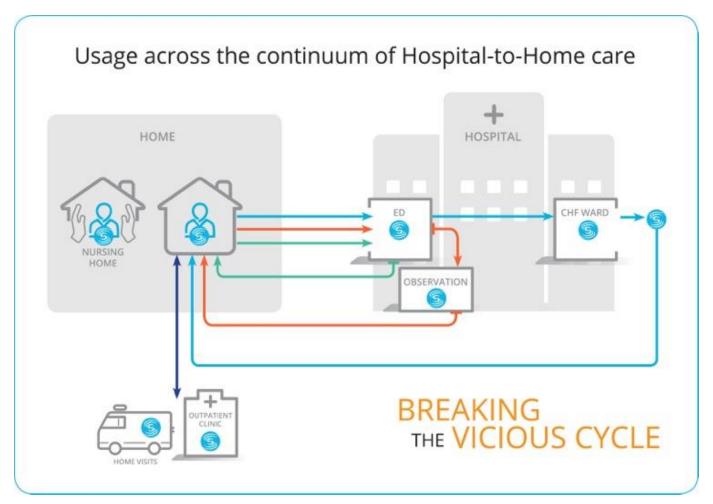




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ReDS[™]POC Deployment







Mt. Sinai - Project Implementation 05-June-17



Point of Care Testing Using Remote Dielectric Sensing (ReDS) Reduces Heart Failure Readmission



Anuradha Lala, Jennifer Ullman, Mary Kelly, Katherine Michelis, Sean P. Pinney Mount Sinai Hospital, New York, NY

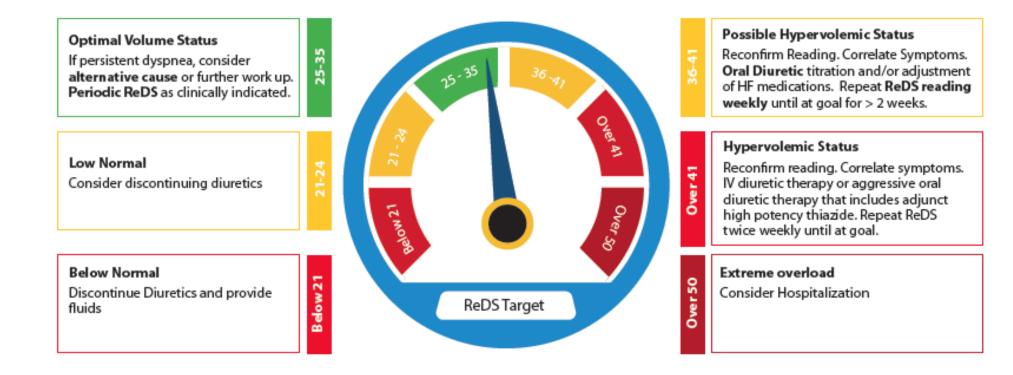
ABSTRACT

One strategy to reduce 30-day readmission is to provide outpatient follow up to all heart failure patients in a dedicated clinic within 7 days of their discharge. Our center has created a Rapid Follow Up (RFU) clinic that is run by a nurse practitioner (NP) with indirect physician supervision.

OBJECTIVES

We hypothesized that the use of remote dielectric sensing (ReDS) technology to measure percent lung water volume in the outpatient setting soon after discharge from hospital for heart failure (HF) setting would improve diuretic dosing and further reduce heart failure readmission.

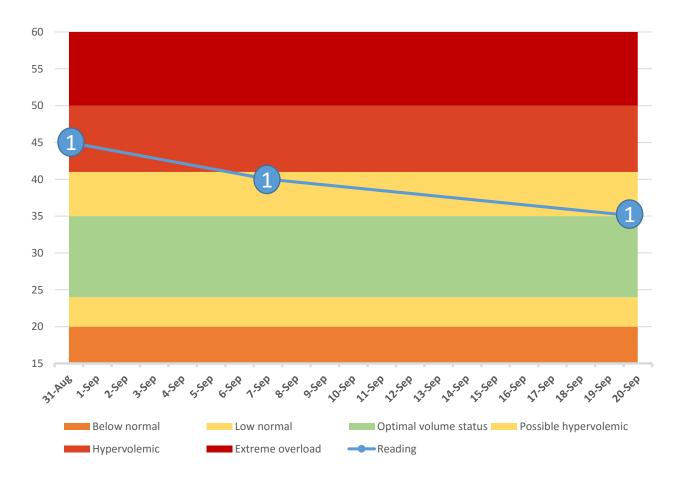






- < 20% Hold diuretics
- 21-35% Maintain current diuretic dosing optimize guideline directed medical therapy (GDMT)
- 36-45% Increase diuretics and return to RFU in one week
- > 46%
 Consider outpatient IV loop diuretic infusion or hospitalization.

Patient Example



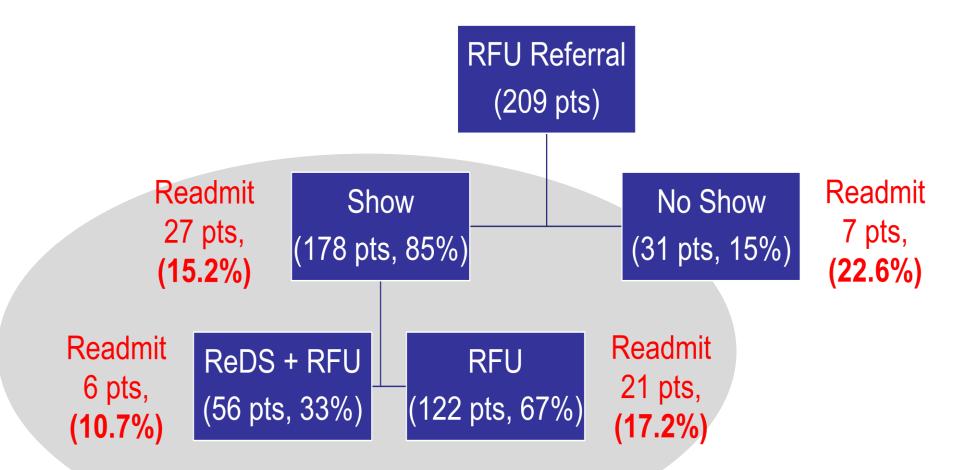


- 45 yo man DCM, LV thrombus, CKD, LVEF 15%
- 6 Hospitalizations in 1-year
- 1st Furosemide 80 mg bid
- 2nd Furosemide 160 mg bid

• 3rd - ?

Outcomes



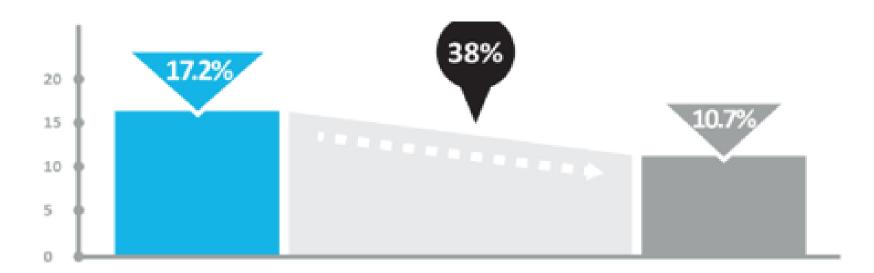


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30 days all-cause readmission reduction



Without ReDS[™]

 With ReDS[™]

Early Observations

• Experience

- Easy to deploy
- About 3 minutes to size, fit and record
- Patients like the immediate feedback
- Not disruptive to workflow

Reasons for Not Using ReDS[™]

- BMI (too high >> too low)
- Hickman or PermCath
- LifeVest
- Patient refusal
- Study visit







- These results show that:
 - Early follow up in an NP clinic is associated with lower rates of 30-day all-cause re-hospitalization.
 - The use of the ReDS system at the clinic demonstrated
 ~40% lower all-cause re-hospitalization rates.
- Further experience with POC testing could provide insights into the frequency of congestion early after heart failure discharge, reductions in hospital readmission and the optimization of medical therapy.