



ENGAGING PATIENTS IN HEART FAILURE MANAGEMENT

ABOUT

Heart failure (HF) patients with cardiac resynchronization therapy (CRT) devices currently have no access to their own health data from remote monitoring (RM) and do not always adhere to RM. This is important as it has been shown that RM improves health outcomes. Our aim was to build an interactive report that engages patients with their RM data on a hypothesis that having access to RM data will improve adherence as well as empower patients to seek clinical intervention before the onset of an adverse event.

STUDY DETAILS

We applied an iterative design process to co-create an interactive patient-facing report using participatory design and usability testing in collaboration with HF patients living with a CRT device. We recruited patients into a 6-month pilot study examining the impact of delivering this report through their patient portal. Report view frequency, calls to the clinic, healthcare utilization and RM adherence were collected and analyzed. Qualitative aspects of participant experience including usability and usefulness were also collected through interviews following the pilot trial.

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Publications / Presentations

- Toscos, T., Ahmed, R., Wagner, S., & Mirro, M. J. (2019). [Improving Implanted Device Remote Monitoring Adherence Through Data Sharing](#). *Circulation*, 140(Suppl_1), A13109-A13109.
- Ahmed, R., Toscos, T., Ghahari, R. R., Holden, R. J., Martin, E., Wagner, S., ... & Mirro, M. (2019). [Visualization of cardiac implantable electronic device data for older adults using participatory design](#). *Applied clinical informatics*, 10(4), 707.
- Ghahari, R. R., Holden, R. J., Flanagan, M. E., Wagner, S., Martin, E., Ahmed, R., ... & Mirro, M. J. (2018). [Using cardiac implantable electronic device data to facilitate health decision making: A design study](#). *International Journal of Industrial Ergonomics*, 64, 143-154.
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