

The Positive Impact of Direct to Consumer Wearables in Pediatric Electrophysiology Telehealth Clinics: A Real-World Case Series

Lisa Roelle PA-C¹, Aarti S. Dalal DO¹, Nathan Miller RN², William B. Orr MD¹, George Van Hare MD, FHRS¹, Jennifer N. Avari Silva MD, FHRS^{1,3}

¹ Division of Pediatric Cardiology, Washington University SOM, ² St Louis Children's Hospital, ³ Department of Biomedical Engineering, Washington University McKelvey School of Engineering

INTRODUCTION

- Direct-to-consumer (D2C) devices can enhance telemedicine visits
- Real-time cardiac data/diagnostics
- Diagnosis and manage cardiac arrhythmias

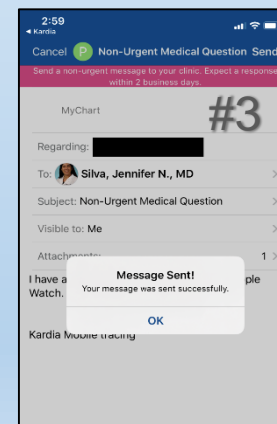
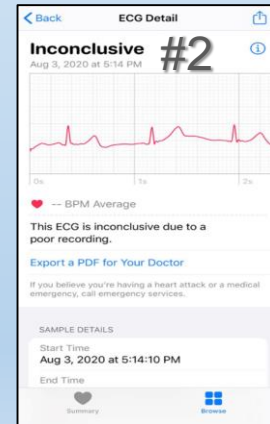
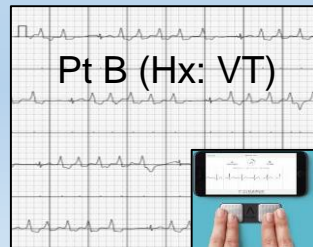
AIM

Pediatric cardiology, specifically EP, where the patient population includes pediatric patients with heart rhythm abnormalities, seems uniquely suited to D2C devices.

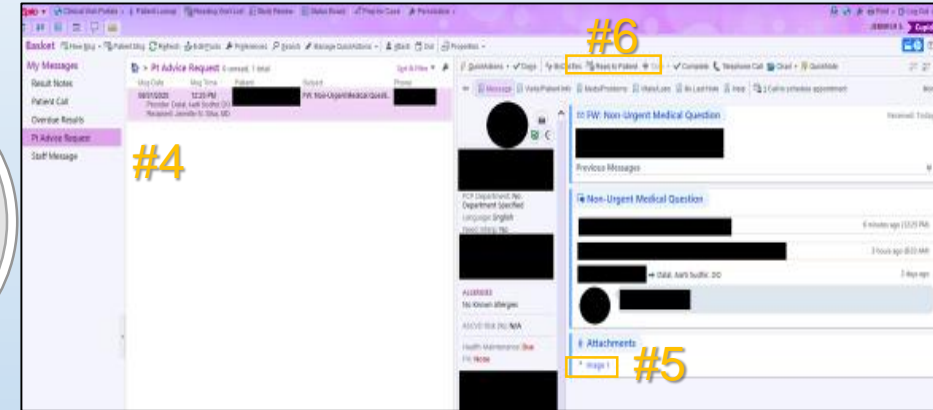
METHODS

- Case series, n=2
- 2 different D2C devices
 - Apple Watch Series 5 (Pt A)
 - Kardia Monitor (Pt B)

Patient Workflow



RESULTS



Health Care Team Workflow

CONCLUSION

- D2C devices will have a critical adjunctive role in telemedicine
- Economic, workflow, & data integrity considerations to be thoroughly explored

CONTACT INFORMATION: lisa.roelle@wustl.edu and jennifersilva@wustl.edu