



Wearables and Remote Monitoring Case Studies

Conducting a trial in a community setting: The REACHES study

Case Study



The Challenge

Clinical trial participation can be limited by the need to attend site, and this may be a particular barrier when studying patients with limitations in mobility and independence. Working with Applied Research for Connected Health (ARCH), Ireland, our challenge was to consider how we could leverage technology and community resources to conduct a clinical trial amongst care-home residents.



The Solution

We designed an eight-week, single-centre study conducted completely within a care-home environment by leveraging mobile study staff and care-centre personnel. We leveraged Apple Research Kit to deliver an electronic patient reported outcomes instrument using an iPad, requested patients to wear Garmin Vivosmart HR devices to assess daily activity and sleep patterns, and performed instrumented timed-up-and-go tests at scheduled intervals using the Kinesis QTUG sensor technology to assess mobility and fall risk.



The Outcome

The study was successful in enabling a clinical trial to be “place-shifted” from a traditional clinic setting to a residential environment. This enabled participation from a group of patients which would have been difficult to reach using more traditional study designs. The study has been helpful in understanding the practicalities and identifying important considerations when collecting data and performing study procedures in alternative settings, in this case within a residential care home.



ICON's Value Add

ICON's wearables and eCOA experts were able to design a solution comprised of multiple technology components to enable this study and facilitate participation by this patient population. ICON provided expertise to select appropriate solutions to meet the study objectives and provide robust and valid data to measure the study endpoints. ICON provided data aggregation services to pull and consolidate data from multiple platforms.

For more information, contact:

enquiries@iconplc.com