Wearables and Remote Monitoring Case Studies

Conducting a large multinational trial

Case Study

The Challenge

ICON was asked to design, implement and manage a technology solution to measure free-living activity, involuntary movements during at-home performance tests, patient reported outcomes, medication usage, and instrumented in-clinic tests using a smart watch solution paired with a custom smartphone app amongst patients suffering from a neurological disorder.

The Solution

ICON wearables experts provided study design consulting services to determine the optimal approach to implement the solutions required by the study objectives. ICON managed all solution vendors and on-boarded a further organisation to provide device setup, testing and logistics services and a patient-facing helpdesk. Our dedicated eCOA oversight project managers consulted on and managed the development of requirements specifications from all vendors, performed full user acceptance testing (UAT) of the solution, including pilot testing in volunteers to ensure effective operation and data acquisition. ICON developed patient- and site-facing training materials and user guides suitable for use in all 9 countries involved in the study. ICON provided full oversight of device logistics and management, and data acquisition throughout the study.

The Outcome

ICON was successful in designing and managing the implementation of the technology solution required by this multinational trial, and ensured data were acquired robustly and made available to study site and sponsor personnel for review in real time. Our experienced project managers took responsibility for activities such as requirements specification, training material development and UAT enabling the sponsor study team to focus on other aspects of study preparation.

ICON's Value Add

ICON wearables experts were able to provide valuable insight to steer solution selection and implementation decisions. ICON's eCOA oversight team provided services that enabled the Sponsor study team to focus on other critical, non-technology related aspects of study preparation. Our portfolio of validated and approved vendors meant that we were able to supplement our own in-house services when required, such as in the management of study device logistics and the provision of patient helpdesk.

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