

**Rave eCOA helped  
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## The Challenges

When oncology patients are at the onset of treatment, they are faced with balancing the daunting reality of their condition with general quality of life. There is a direct correlation between a clinical outcome and factors such as sleep, physical fatigue, a



## CASE STUDY

A LEADING ACADEMIC MEDICAL CENTER MONITORS NEWLY DIAGNOSED MYELOMA PATIENTS WITH RAVE ECOA

partnered best in class clinical research with an advanced cloud-based ePRO solution. The innovative study included a clinical trial with 40 patients, split into 2 arms, to assess the quality of life of patients younger than 65 and 65 or older with myeloma.

## The Solution

The researchers, using Medidata's cloud-based Rave Wearable Sensors solution, were able to analyze activity and sleep trends, identify outliers, and assess patient compliance and data quality. Patients wore activity trackers for 1-7 days before induction chemotherapy treatment to establish a baseline, then were monitored continuously up to completion of six cycles of chemotherapy.

The Medidata Rave eCOA app allowed patients to generate activity level, fatigue, and appetite data on their smartphones. Since the institution was already using Rave EDC as their clinical study platform, its ability to unify with Rave EDC to ingest, store, and summarize data within the Medidata Rave Clinical Cloud™ made it a great candidate for the study.

Researchers found that Rave eCOA helped to motivate patients and increased engagement around experiences outside of the clinical setting, which otherwise may have gone unmentioned. Similarly, many patients reported an increased motivation to report things like activity and sleep, allowing doctors to examine these measures and their implications in cases of serious adverse events. An expanded knowledge of patient quality of life empowered doctors to tailor their disease control approach on an individual patient basis.

## The Results

The use of the Medidata cloud-based platform helped the researchers aggregate and process data in real time over the course of the trial, providing valuable insights into patterns of movement and sleep.