

Rapid Actigraphy Data Analyzer

Cutting Edge Algorithms, Advanced Analyses, Invaluable Insights

RADA powered algorithms enable a statistically deeper dive into Motion Biosensor data, for more refined visibility. Uncover novel endpoints for a comprehensive view of a drug or therapy's impact on your study's subjects.

- Leverage RADA to extract possible disease discerning signals from a subject's motion data.
- Use algorithms developed via established signals, to provide disease identifying "novel" endpoints.
- Empower decision making for current and future study phases with enhanced clarity, regarding therapy impact to motion and/or sleep.

RADA is an analytical tool that drills deeper into subject data – for a more detailed understanding of your drug or therapy.

via Actiware

- **Conventional Endpoints** Activity Endpoints: Total Activity Counts, Avg. Activity, Max Activity, Mean Daily Activity, Activity Threshold Analysis, Daily Peak Activity
 - Sleep Endpoints: Total Sleep Time, % Sleep, Onset Latency, Sleep Efficiency, Wake After Sleep Onset, Wake Time, % Wake, # Wake Bouts, Avg. Wake Bout Duration, Fragmentation Index

Novel Endpoints via RADA

- Capture continuous motion data (alternative to discrete data points collected during study visits) to detect varying activity patterns.
- Re-analyze collected data as new algorithms are developed.

Scratching

- Event Start Date
- Event Start Time

- Mean Power

Extended cosinor

- P Value
- Up Mesor

Exploratory

- Statistical Endpoints • Mean, Percentiles
- Complexity Endpoints
 - Shannon's Entropy, Sample Entropy
- Symbolic Dynamics
- Signal Characteristics
- Threshold Crossings
- MVPA Endpoints
 - physical activity bouts
 - Total Duration of Bouts
- And More!

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