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*If I had to rate Kendle on a 1 to 10 scale, I'd give them a 10.5. In my experience with Phase I studies, the staff at Kendle is well-trained, reliable and able to fulfill study commitments.*

*Associate Director, BMS*

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## Accurate pharmacodynamic assessment for efficient clinical development

Accurate and well-interpreted pharmacodynamic data can expedite the subsequent evaluation of investigational drugs. By delivering science-driven solutions to Early Stage safety and pharmacologic questions, Kendle can help facilitate more confident decisions to accelerate compound development.

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*Kendle's globally recognized services and scientific expertise as well as the state-of-the-art facility in Toronto made selecting the right CRO a natural decision. As priorities shifted and critical needs emerged, the flexibility of Kendle to accommodate our needs was unparalleled – a key factor when choosing a CRO.*

*Senior Manager, Clinical Operations – CNS  
Eisai Medical Research Inc.*

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## The Kendle difference

Through our Early Stage research units in Utrecht, The Netherlands and Toronto, Canada, Kendle offers high-quality expertise and experience in the conduct of early stage studies involving the measurement of pharmacodynamic parameters.

Our Early Stage team has performed more than 1,000 clinical studies, including First-in-Human (FIH) studies for biologics and new chemical entities. In addition to measuring safety and pharmacokinetic parameters, we can provide expert advice on selecting the most appropriate pharmacodynamic evaluations for your compound.



## Pharmacodynamic capabilities

### Central Nervous System

- Proprietary Scheduled Measurement System (SMS) software for efficient and optimal capture of CNS pharmacodynamic endpoints
- Subjective drug effect scales
- Performance tests
- Neuropsychological tests
- Pupillometry
- Scopolamine and ketamine test models
- EEG assessment

### Cardiovascular

- Plethysmography (e.g. Forearm Blood Flow Model)
- 12-lead ECG recordings (e.g. thorough QTc studies)
- Laser doppler
- Doppler flow measurement
- Platelet aggregation
- Cardiac monitoring

### Respiratory

- Lung function testing (e.g. spirometry)
- AMP challenge
- Metacholine challenge

### Metabolism

- Respiratory gas analyses
- Hypo-/hyperglycemic clamps
- Energy expenditure measurements

### Gastroenterology

- 24-hour pH measurement
- <sup>13</sup>C-octanoic acid testing
- Endoscopy
- *H. pylori* testing
- Lactulose breath test

### Sexual Health

- Ultrasound follicular development measurement
- Intravaginal latency time
- Urodynamic testing

### Renal Function

- Urinary bladder ultrasound
- Creatinine clearance
- Inulin clearance

### Other

- Gall bladder function (ultrasound)
- Bone marrow aspirations

### Biomarkers

- Inflammatory parameters
- Cytokines
- Bone turnover markers
- Plasma surfactant D levels

## For more information

about Kendle's capabilities in pharmacodynamic assessments, please contact us at [info@kendle.com](mailto:info@kendle.com) or one of the telephone numbers listed below:

**The Netherlands** Utrecht. Tel: +31 30 258 45 00

**Canada** Toronto, ON. Tel: +1 416 963 9338 Ext. 541

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