A Wealth of Experience

At RTI Health Solutions, we have collaborated with our clients on more than 280 projects researching central nervous system (CNS) and neurological diseases, CNS and neurologic treatment and treatment trials, and complications of CNS and neurological diseases. Our experience includes:

- Alzheimer’s
- Diabetic peripheral neuropathy
- Epilepsy
- Fibromyalgia
- Head trauma
- Insomnia
- Meningitis
- Migraine
- Multiple sclerosis
- Overactive bladder
- Pain
  - Acute
  - Chronic
- Parkinson’s
- Restless legs syndrome
- Stroke

Types of Projects

We have implemented studies to help our clients develop strategies in the CNS and neurology markets and to develop and gain market access for products to treat CNS and neurological diseases and complications arising from treatment of CNS and neurological illnesses. Recent projects have included:

- Health economic models, including
  - Cost-effectiveness
  - Budget impact models
  - Markov models
- Benefit-risk preference studies
- Treatment preference studies
- Database analyses using cross-sectional and longitudinal databases
- Preparation of HTA submissions
- Systematic literature reviews
- Economic burden of illness studies
- Economic feasibility studies
- Qualitative payer research
- Meta-analysis studies
- Development of reimbursement and value communication strategies
- Epidemiology of disease
- Retrospective observational studies
- Patient-reported outcomes (PRO) instrument development, evaluation, and validation
- Psychometric evaluations of patient instruments
- Health-related quality-of-life studies
- Consulting on drug development
- Abstract and manuscript development
See How We’ve Helped Others

Literature Review: Cost Drivers in Dementia
We conducted a systematic review of 27 COI studies in dementia from 14 different health care systems from 2003 to 2012. In the included studies, total annual costs for dementia of up to USD 70,911 per patient were estimated, with the main cost drivers of dementia being nursing home expenditures and home-based long-term care. The results of this review highlight the significant economic burden of dementia for patients, families, and health care systems. Study results were published in International Journal of Geriatric Psychiatry, 2015 Feb;30(2):111-29.

Chronic Migraine: Postauthorization Observational Study in the European Union
We conducted a prospective, observational study aimed at describing usage patterns and the safety profile of onabotulinumtoxinA. We evaluated 1141 patients treated by 86 physicians (81% neurologists) at 59 practices across UK, Germany, Sweden, and Spain. Data from the study indicated that onabotulinumtoxinA is used in the appropriate patient population, and utilization generally appears to be consistent with aspects of the published PREEMPT injection paradigm. Results of the study were published in The Journal of Headache and Pain, 2014 Sep 18;15(Suppl 1):G24.

Fibromyalgia Cost-Effectiveness Study
We developed a health economic Markov model to estimate the cost-effectiveness of duloxetine, a drug for the treatment of fibromyalgia. The goal of the study was to evaluate the FDA-approved dose of 60 mg per day, when assessed from the perspective of the US health care payer. The study concluded that when used as a second-line therapy, duloxetine provides additional benefits at a level of cost that would be considered favorable. Study results were presented at the ISPOR 13th Annual European Congress, November 6-9, 2010.

Stated Preference Study for Multiple Sclerosis (MS) Treatment Outcomes
We conducted a stated preference study to estimate the willingness of MS patients to accept the risk of treatment in exchange for improvements in their MS symptoms. As part of the study, MS patients completed a survey questionnaire that included a series of choice-format conjoint tradeoff tasks. The study showed that MS patients have a high tolerance for risk of life-threatening events in exchange for delaying disability progression. Study results were published in Journal of Neurology 2009;256(4):554-62.

Selected Publications By Our Staff


