Experience Summary:
Cognitive Impairment and Alzheimer’s Disease

Evidera scientists are leaders in the field of Alzheimer’s disease (AD) and cognitive impairment with more than 20 years of experience in health economics, outcomes research and market access studies. This work includes supporting pharmaceutical clients, managed care organizations and regulatory agencies, understanding a broad range of health related costs, natural disease course, treatment outcomes, market landscape and market access and health-related quality of life (HRQoL) research and evidence standards for HRQoL claims. Since 2010, we have conducted more than 70 projects in AD and published the results and methods of this work in more than 60 peer reviewed publications.

Evidera has been actively supporting the needs of numerous pharmaceutical companies in understanding the health and economic value of their marketed and/or in development assets. The Evidera team has developed one of the most cited health economic models (The Assessment of Health Economics in AD [AHEAD]) in this therapeutic area.

We have applied more than two decades of modeling experience and expertise to develop the AD ACE simulator.

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Recent examples and selected publications of some of our AD and Cognitive Impairment work include:

**Epidemiology**

**Study examples**
- DES to conduct exploratory analyses of biomarkers (i.e., Florbetaben with PET) for early diagnosis of AD among patients with suspected dementia.
- Provided focused information on the treatment, epidemiology, and burden of illness for AD and MCI that was the basis for health economic and health outcomes strategies for a compound under development.
- Proof of concept study to understand the diagnosis and treatment patterns of AD in the European setting, including a feasibility assessment of available data sources and data analytics methodologies.
- Quantitative systematic literature review of salient symptoms of AD.
- Study of diagnosis and resource use patterns in the UK and Spain for patients with dementia and AD.
- Determined the prevalence of dementia within the Veteran’s Administration (VA) population.
- Department of Defense database study on treatment patterns and outcomes of patients treated with a specific AD drug.
- Systematic literature review and meta-analysis of biomarkers in AD.
- Literature-based study of incidence and prevalence of AD and MCI.

**Selected publications**


**Health Economics**

**Study examples**
- A pre-dementia microsimulation model to run cost-efficiency analyses.
- Identification and review of available information on aspects of the economic burden of AD, such as productivity, costs to employers of caregivers, and direct medical costs of caregivers.
- Determined the cost of dementia within the VA population.
- Literature review to obtain and estimate costs, identify areas where further research on economic consequences of AD could fill gaps in knowledge, and suggest the appropriate methodological designs to obtain the data.
- Literature review on cross-national treatment patterns for AD patients to support adaptation of resource use and costs from one country setting to another.

**Selected publications**


Outcomes Research

Study examples

- Developed the Patient-Reported Outcomes in Cognitive Impairment (PROCOG) instrument to measure mild to moderate cognitive impairment symptoms and their impact from the perspective of patients with AD and MCI.
- Assessment of psychometric properties of the Dependence Scale in large RCTs of patients with mild to moderate AD.
- Developed PRO evidence dossier on the Dependence Scale and prepared for and attended an FDA meeting to discuss the dossier and the use of the Dependence Scale as a secondary endpoint.
- Developed PRO evidence dossier for the Neuropsychiatric Inventory (NPI).
- Literature review of instruments on mild AD/MCI and endpoint selection recommendations.
- Developed utility estimates for clinically relevant disease states for MCI and AD that were used as inputs for a cost-effectiveness model.
- Quantitative systematic literature review to evaluate the appropriateness of existing instruments for measuring behavioral symptoms in patients with AD.

Selected publications


**Market Access**

**Study examples**

- Assessment of the pricing and reimbursement potential in the EU of a new product to treat AD.
- Understanding payer perceptions of a treatment for AD and Parkinson’s Disease (PD) psychosis providing strategic insights into the price potential and data generation activities to optimize market access.
- Payer strategy study of AD device due diligence.
- Payer landscape assessment in AD.
- Value message workshop and dossier for a product to treat AD.
- Expert panel on AD imaging.
- Conducted in-depth interviews combined with a web-based survey of physicians to provide a more comprehensive picture of prescribing experiences in dementia.