

The Behavioral Neurology of Dementia

Second Edition

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Edited by

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Preface

Not long ago, clinicians would approach patients with dementia with a limited differential diagnosis, a limited number of useful diagnostic studies to solidify a diagnosis, and a limited armamentarium of therapies to consider. With the advent of new genetic techniques, immunohistochemistry, and other advances in the molecular characterization of brain tissue, the spectrum of neurodegenerative, vascular, and prion disease has widened greatly. A similar expansion in the characterization of the clinical syndromes associated with these varying molecular pathologies has occurred, as have the pharmacological and non-pharmacological options available for management. These developments have created the need for better resources to encapsulate the key concepts related to dementing disorders in order to provide optimal diagnostic and management services. The absence of resources led us to partner with many esteemed colleagues with expertise in behavioral neurology, epidemiology, neuropsychology, neuroradiology, neurogenetics, animal models/neuroscience, and neuropathology to collectively co-author the first edition of *The Behavioral Neurology of Dementia*.

Since its publication in 2009, we have gratefully heard many laudatory comments on the text, but more importantly, the expansion of new data and concepts suggested that a revised edition was needed. This second edition includes updates on many of the same syndromes, diseases, and concepts previously described, authored by experts in their particular fields, with an emphasis on characterizing mild cognitive impairment and the major dementia syndromes, the utility of neuropsychology and brain imaging (spanning MRI, PET, and other modalities), and the histopathological correlates. The chapters on the bedside/office assessment, epidemiology of dementia,

neuropsychiatric aspects, neuroimaging, genetic approaches, animal models, vascular cognitive impairment and CADASIL, Jakob–Creutzfeldt disease and other prion diseases, cognitive disorders of the oldest old, delirium masquerading as dementia, treatment of dementia, and the cognitive/behavioral syndromes are all updated, some rather significantly considering the clinical and research advances over the past 5 plus years. New to this edition are chapters on the autoimmune encephalopathies, chronic traumatic encephalopathy, and sleep issues in dementia.

While potentially informative to clinicians and scientists with an interest in dementia on any level, this text is again oriented to be maximally useful to medical students, residents, fellows, and practicing clinicians who evaluate and manage patients with cognitive impairment/dementia. Those whose interests are in behavioral and cognitive neurology will likely find this particularly informative.

More tools are available, the treatment options have expanded, and many clinical trials involving putative disease-modifying therapies are in progress or being planned. Clinicians and scientists now have the ability to identify the molecular signatures of dysfunctional proteins of some diseases that cause dementia based on genetics, biofluid analyses, and molecular PET imaging (all reviewed in this edition). It is our hope that this text will not only aid clinicians in the current mode of diagnostic clarification and management optimization, but will also help set the stage for honing clinical and molecular/histologic diagnoses in preparation for the upcoming era of disease-modifying therapies.

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On behalf of our co-authors