Preface

Similarities and Differences Between Mild Cognitive Impairment and Alzheimer’s Disease

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INTRODUCTION

This special issue is dedicated to discussion of similarities and differences between mild cognitive impairment (MCI) and Alzheimer’s disease (AD). Amnestic MCI is thought to be a transition between normal aging and early dementia and may represent the best opportunity for pharmacologic interventions. Data suggest that conversion from MCI to dementia occurs at a rate of 10% to 15% per year [1] with ~80% conversion by the sixth year of follow-up; although ~5% of MCI subjects remain stable or convert back to normal [2,3]. With the description of MCI as a transition between normal aging and dementia, recent emphasis has focused on early disease detection and elucidation of pathogenic mechanisms that underlie progression to AD with the hope of early treatment to stop or slow progression of the disease. Over the past few years multiple studies have examined pathogenic changes in MCI brain and have demonstrated changes that are comparable to changes observed in late stage AD.

The goal of this issue was to assemble a series of articles in one place that compare and contrast various aspects of MCI/AD including clinical parameters, potential genetic components, imaging (MRI, PET/SPECT), and neuropathological alterations that occur in the progression from MCI to AD. The issue presents both scholarly reviews of current literature and reports of new research findings and provides a diverse view of the differences and similarities between MCI and AD. The comparison between MCI and AD may provide insight into the pathogenic features of AD that occur early in the disease and thus identify potential therapeutic targets aimed at slowing progression or perhaps preventing the onset of AD.

REFERENCES


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