

Identifying patients with Mild Cognitive Impairment (MCI).

Patients with MCI

- Individuals with mild cognitive impairment (MCI) portray a noticeable memory difficulty in remembering events and situations along with problems in decision making, planning, interpreting instructions, and orientation.
- These cognitive problems become frequent and more severe compared to the cognitive decline in normal aging. As the MCI progresses, MCI individuals face a higher risk of developing Alzheimer's Disease (AD).
- The development of automated machine learning models that can learn the characteristics of MCI and provide an early and accurate identification of MCI is of utmost importance for two main reasons:
 - First, an early identification can enable multidomain lifestyle interventions and/or pharmacological treatments at the MCI stage, or even earlier, which can potentially delay or might even prevent the development of AD and other types of dementia.
 - Second, the early identification, will provide time to patients and their families to make decisions about their care, family issues, and legal concerns.