

PRACTICE GUIDELINES FOR **Alzheimer's Disease Treatment**

TREATING NEUROPSYCHIATRIC FEATURES

A critical part of managing Alzheimer's Disease (AD) is the treatment of neuropsychiatric features. Antidepressants and antipsychotics are often prescribed to treat behavioral and psychiatric changes in patients with AD.1



>90% of AD patients develop behavioral/ psychiatric changes.2

PHARMACOLOGY KEY

Anti-Dep

Antidepressants



ChEI: Cholinesterase inhibitor

known as atypical antipsychotic



NMDA receptor antagonists: N-methyl-Daspartate receptor antagonists3



Second-Generation Antipsychotic (SGA): Serotonin-dopamine antagonist, also

EAN Guidelines

European Academy of Neurology

APA Guidelines

American Psychiatric **Association**

CCCDTD4 & 5

4th & 5th Canadian Consensus Conferences on the Diagnosis & Treatment of Dementia



Mild To **Moderate** AD

Cognitive Therapy:

Preliminary studies

Preliminary studies suggest a beneficial effect of cognitive stimulation (ie. Reality Orientation).5

ChEI ChEIs: Consider when diagnosed, bearing in mind therapeutic benefits and possible safety issues.5



ChEIs: Modest evidence supports efficacy for mildmoderate AD.

ChEI Transdermal Patch: Higher doses possibly associated with greater benefit.1



Nonpharmacologic measures (Nonphar measures (Nonpharm):

Encourage proper nutrition and sleep, physical exercise, hearing screening, cognitive training, and social engagement.8



Hypertension Treatment: May reduce dementia risk.8



ChEIs: Consider, weighing benefits and risks.



Moderate To Severe AD





NMDA receptor antagonist & **ChEI Combination Therapy:** Suggested rather than ChEI alone in patients with moderate to severe AD.6





ChEIs or NMDA receptor antagonists: Modest evidence supports efficacy for moderatesevere AD.1

NMDA receptor antagonist & ChEI Combination Therapy: Slight/ unclear clinical significance.1





ChEIs or NMDA receptor antagonists: May be considered for the treatment of vascular cognitive impairment in selected patients.8

NMDA receptor antagonist & ChEI Combination Therapy: Insufficient evidence for or against.1





Antidepressants: Use selective serotonin reuptake inhibitors (SSRIs) rather than tricyclic antidepressants.⁵



Antidepressants:

Mixed evidence for efficacy.



Antidepressants:

Trial could be considered.

Nonpharm: Exercise, group cognitive therapy,

psychosocial interventions for

psychoeducational and



Agitation/ **Psychosis**

Nonpharm: Management of Behavioral and Psychological Symptoms of Dementia (BPSD) should begin with a careful search for triggers and causative factors (i.e. physical illness). Where possible, initial treatment should be non-pharmacological. ChEIs may be considered.5



Antipsychotics: If patient does not respond to above measures, consider for

moderate-severe behavioral and psychological symptoms that cause notable distress, or when other treatments are not appropriate.5

Nonpharm: Review clinical response to nonpharm. interventions prior to nonemergency use of an antipsychotic medication.

Nonemergency Antipsychotics: Consider for agitation/psychosis

with severe, dangerous, and/or significantly distressing symptoms. Assess and discuss potential risks and benefits with patient and caregiver(s).7



Antidepressants: Benefits shown in SSRI single trial.

Treatment constrained by cardiac adverse events (AFs).1

caregivers, & dementia-friendly organizational design.8 **Antipsychotics:**

Recommended for severe agitation, aggression, and psychosis symptoms with risk

of harm to the patient and/or others. Weigh potential benefits against significant risks.1

NMDA receptor antagonists and/ or ChEIs: Insufficient evidence for or against use for treating neuropsychiatric symptoms as a primary indication.8



Recommended

Aspirin:

Do not use to treat AD.5

Vitamin E: Do not use to treat AD.5

Insufficient evidence to support the use of: anti-inflammatory drugs, a specific monoamine oxidase (MAO) inhibitor, estrogens, pentoxifylline, statins, and porcine brain-derived proteolytic peptide fraction.5

Alternative Agents:

Uncertain efficacy and safety, and generally not recommended (e.g., statins, anti-inflammatory drugs, vitamin E, and estrogens).1

Certain Anticonvulsants: Do not use for treating agitation and aggression.

Aspirin: Do not use for patients with Mild Cognitive Impairment (MCI) or dementia with covert white matter lesions of vascular origin without stroke history or

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