

Pharmacologic Agents for Dementia

Medication	Dosing & Administration	2024 Formulary Status		2025 Formulary Status		Adverse Drug Reactions				
		Tier	UM	Tier	UM					
Cholinesterase Inh	nibitors									
donepezil tabs 5mg & 10mg, donepezil odt	5mg to 10mg PO once daily	2		2		nausea, diarrhea, insomnia, vomiting, muscle cramps, fatigue, and anorexia				
galantamine er	8mg to 24mg PO once daily	2		2	[QL]	dizziness, headache, decreased appetite, and weight decreased				
galantamine oral soln	4mg to 12mg PO twice daily	4		4	[QL]	nausea, vomiting, diarrhea				
galantamine tabs	4mg to 12mg PO twice daily	2		2	[QL]	nausea, vomiting, diarrhea				
rivastigmine caps	1.5mg to 6mg PO twice daily	3		3	[QL]	nausea, vomiting, anorexia, dyspepsia, and asthenia				
rivastigmine patches	4.6mg/24 hours to 13.3mg/24 hours patch transdermally once daily	4		4	[QL]	nausea, vomiting, and diarrhea				
N-methyl-D-aspart	N-methyl-D-aspartate (NMDA) Receptor Antagonists									
memantine hcl immediate release tabs	5mg to 20mg PO daily in 2 divided doses	2		2		hoodooho diarrhoo and dizzinoon versiting				
memantine hcl titration pack 5mg-10mg	5mg to 20mg PO daily in 2 divided doses	2		4		headache, diarrhea and dizziness, vomiting				

Brand-name drugs are capitalized and generic drugs are listed in the lower-case italics.

[QL] = Quantity Limit

a: Cholinesterase inhibitors. FDA labeling for AD is as follows: donepezil—mild, moderate, severe; galantamine—mild, moderate; rivastigmine—mild, moderate. Continue if patient improves or stabilizes; stopping medication can lead to rapid decline. Adverse events increase with higher dosage.

b: Approved by FDA for moderate to severe AD. Possible adverse events include dizziness, headache, somnolence. NMDA = N-methyl-d-aspartate.

c: Increased mortality found in controlled studies of mild cognitive impairment

D. Osterweil & L. Vu 09/2014; D. Osterweil & A. Phan 09/2015; D. Yoon 08/2016; L. Vuong 08/2017; D. Yoon 09/2018; K. Truong 08/2019, 08/2020; S. Cho 09/2021; K. Truong 09/2022; S. Cho 09/2023, 9/2024



TREATMENT OF AGITATION

- Consider non-pharmacologic approaches first before pharmacologic tx
- · Consider steps to reduce non-verbalized pain
- Cognitive enhancers may slow deterioration, and agitation may worsen if discontinued. Low doses of antipsychotic
 medications have limited role but may be necessary. Note this use is off-label and increases risk of death compared
 with placebo in patients with AD. CATIE-AD trial (NEJM2006;355:1525-1538) showed modest tx benefit compared
 with placebo for olanzapine and risperidone that was mitigated by greater EPS, sedation, and confusion. In this trial,
 quetiapine did not appear to be efficacious compared with placebo but caused greater sedation.
- CATIE-AD reported second-generation antipsychotics cause weight gain, particularly in women treated with olanzapine or quetiapine; olanzapine tx was also associated with decreased HDL cholesterol
- Cholinesterase inhibitors may worsen behavioral variant in those with Frontotemporal Dementia (FTD): consider Memantine or SSRI's. For the treatment of apathy: assess and treat underlying depression; cholinesterase inhibitors help; methylphenidate (5-20 mg/d), very limited data, may cause agitation and psychosis.

Symptom	Medication	Dosing & Administration	2024 Formulary Status		2025 Formulary Status	
		3	Tier	UM	Tier	UM
Agitation in	aripiprazole tabs	2.5mg to 12.5mg PO daily ^a	3		3	
context of psychosis	olanzapine tabs	2.5 to 10mg PO daily ^a	2		2	
psychosis	quetiapine ir	12.5mg to 100mg PO daily ^a	2		2	
	risperidone	0.25mg to 3 mg daily ^a	2		2	
Agitation in	SSRI	Varies	Refer to Comprehensive formulary			ulary
context of depression	e.g., citalopram tabs	10 to 20mg daily	1		1	
Anxiety, mild to	buspirone	15 to 60 mg PO dailyb	2		2	
moderate irritability	trazodone	50 to 100mg PO daily ^c	1		1	
Agitation or	carbamazepine ir	300 to 600 mg PO daily ^d	2		2	
agression unresponsive to	divalproex sodium ir	500-1500 mg PO daily ^e	2		2	
first line treatment	olanzapine inj	2.5 to 5 mg IM ^{a,f}	2		2	
Sexual aggression, impulse-control symptoms in men	Second-generation antipsychotic or divalproex	see dosages above		see above		

a: Avoid: Greater mortality, cardiovascular, and cerebrovascular events than placebo; use with particular caution in patients with cerebrovascular disease, prolonged QTc interval or hypovolemia.

b: Can be given Q12h; allow 2-4 wk for adequate trial.

c: Small divided daytime dosage and larger bedtime dosage; watch for sedation and orthostasis.

d: Monitor serum levels; periodic CBCs, platelet counts secondary to agranulocytosis risk. Beware of drug-drug interactions.

e: Can monitor serum levels; usually well tolerated; check complete blood count (CBC), platelets for agranulocytosis, thrombocytopenia risk.

f: For acute use only; initial dose 2.5 mg to 5 mg, second dose (2.5 mg to 5 mg) can be given after 2 hr, maximum of 3 injections in 24 hr (maximum daily dose 20mg); should not be administered for more than 3 consecutive days.



References

- 1. A Guide to Dementia Diagnosis and Treatment. American Geriatrics Society. http://americangeriatrics.org/ (Accessed on Sept, 2024).
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- 3. Biennow K, et al. Lancet 2006; 368(9533):387-403.
- 4. Online Lexicomp (09/2024): 1100 Terex Road, Hudson, OH 44236
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