

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, fational 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 | ate (NMDA) Receptor Antagoni | sts | | | | | | |
| memantine hcl immediate release tabs | 5mg to 20mg PO daily in 2 divided doses | 2 | | 2 | | handasha diarrhan and dizzinasa yamitizz | | |
| 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

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

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



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 | |
|---|---|---------------------------------------|--------------------------|-------------|--------------------------|-------|
| 5 , , | | | Tier | UM | Tier | UM |
| Agitation in context of psychosis | aripiprazole tabs | 2.5mg to 12.5mg PO daily ^a | 3 | | 3 | |
| | olanzapine tabs | 2.5 to 10mg PO daily ^a | 2 | | 2 | |
| | quetiapine ir | 12.5mg to 100mg PO daily ^a | 2 | | 2 | |
| | risperidone | 0.25mg to 3 mg daily ^a | 2 | | 2 | |
| Agitation in context of depression | SSRI | Varies | Refer | to Comprehe | ensive form | ulary |
| | e.g., citalopram tabs | 10 to 20mg daily | 1 | | 1 | |
| Anxiety, mild to moderate irritability | buspirone | 15 to 60 mg PO dailyb | 2 | | 2 | |
| | trazodone | 50 to 100mg PO daily ^c | 1 | | 1 | |
| Agitation or agression unresponsive to first line treatment | carbamazepine ir | 300 to 600 mg PO dailyd | 2 | | 2 | |
| | divalproex sodium ir | 500-1500 mg PO daily ^e | 2 | | 2 | |
| | 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
- 5. Reuben, D. (2013). Dementia. In Geriatrics at your fingertips (15th ed.). New York: American Geriatrics Society.