

# Dementia Curriculum for Health Care Professionals

## Module 15: References

### Role of the Pharmacist in the Care of Persons Living with Dementia



## Module 15 References

Alexopoulos, G.S. (1996). The treatment of depressed outpatients. *Journal of Clinical Psychiatry*, 57(suppl 14), 14-20.

Allgaier, M., & Allgaier, C. (2013). An update on drug treatment options of Alzheimer's disease. *Frontiers in bioscience (Landmark edition)*, 19, 1345-1354.

Alternative Treatments. (2016). Retrieved from [http://www.alz.org/alzheimers\\_disease\\_alternative\\_treatments.asp](http://www.alz.org/alzheimers_disease_alternative_treatments.asp).

Alzheimer's and Dementia Caregiver Center. Sleep Issues and Sundowning. (2016). Retrieved from <http://www.alz.org/care/alzheimers-dementia-sleep-issues-sundowning.asp>.

Alzheimer's Disease (2014, April). Retrieved from <http://www.clevelandclinicmeded.com/medicalpubs/diseasemanagement/neurology/alzheimers-disease/>.

Alzheimer's Disease and Sleep. (2016). Retrieved from <https://sleepfoundation.org/sleep-disorders-problems/alzheimers-disease-and-sleep>.

Alzheimer's Disease Genetics Fact Sheet. (2016, August 18). Retrieved from <https://www.nia.nih.gov/alzheimers/publication/alzheimers-disease-genetics-fact-sheet>.

Alzheimer's Disease: Unraveling the Mystery. National Institutes of Health. (2008, Sept). Retrieved from [https://d2cauhf6h4x0p.cloudfront.net/s3fs-public/alzheimers\\_disease\\_unraveling\\_the\\_mystery\\_2.pdf?k0OsljJHDyFRrRXL78dV\\_YsOeNlvba\\_w1](https://d2cauhf6h4x0p.cloudfront.net/s3fs-public/alzheimers_disease_unraveling_the_mystery_2.pdf?k0OsljJHDyFRrRXL78dV_YsOeNlvba_w1).

Alzheimer's Research on Causes and Risk Factors, (2016). Retrieved from <https://www.alzinfo.org/articles/what-causes-alzheimers/>.

Birks, J. S. (2006). Cholinesterase inhibitors for Alzheimer's disease. *The Cochrane Library*.

Bohnen, N. I., Kaufer, D. I., Hendrickson, R., Ivanco, L. S., Lopresti, B., Davis, J. G., ... & DeKosky, S. T. (2005). Cognitive correlates of alterations in acetylcholinesterase in Alzheimer's disease. *Neuroscience letters*, 380(1), 127-132.

Boustani, M., Campbell, N., Munger, S., Maidment, I., & Fox, C. (2008). Impact of anticholinergics on the aging brain: a review and practical application.

Brookmeyer, R., Johnson, E., Ziegler-Graham, K., & Arrighi, H. M. (2007). O1-02-01: Forecasting the global prevalence and burden of Alzheimer's disease. *Alzheimer's & Dementia*, 3(3), S168.

Cantú, T. G., & Korek, J. S. (1991). Central nervous system reactions to histamine-2 receptor blockers. *Annals of internal medicine*, 114(12), 1027-1034.

Carnahan, R. M., Lund, B. C., Perry, P. J., Pollock, B. G., & Culp, K. R. (2006). The anticholinergic drug scale as a measure of drug-related anticholinergic burden: associations with serum anticholinergic activity. *The Journal of Clinical Pharmacology*, 46(12), 1481-1486.

Caro, J., Salas, M., Ward, A., Getsios, D., Migliaccio-Walle, K., & Garfield, F. (2004). Assessing the health and economic impact of galantamine treatment in patients with Alzheimer's disease in the health care systems of different countries. *Drugs & aging*, 21(10), 677-686.

Chew, M. L., Mulsant, B. H., Pollock, B. G., Lehman, M. E., Greenspan, A., Mahmoud, R. A., ... & Gharabawi, G. (2008). Anticholinergic activity of 107 medications commonly used by older adults. *Journal of the American Geriatrics Society*, 56(7), 1333-1341.

Child, A., Clarke, A., Fox, C., & Maidment, I. (2012). A pharmacy led program to review anti-psychotic prescribing for people with dementia. *BMC psychiatry*, 12(1), 1.

Ciriaco, M., Ventrice, P., Russo, G., Scicchitano, M., Mazzitello, G., Scicchitano, F., & Russo, E. (2013). Corticosteroid-related central nervous system side effects. *Journal of Pharmacology and Pharmacotherapeutics*, 4(5), 94.

Dantoine, T., Auriacombe, S., Sarazin, M., Becker, H., Pere, J. J., & Bourdeix, I. (2006). Rivastigmine monotherapy and combination therapy with memantine in patients with moderately severe Alzheimer's disease who failed to benefit from previous cholinesterase inhibitor treatment. *International journal of clinical practice*, 60(1), 110-118.

DeKosky, S. T., Williamson, J. D., Fitzpatrick, A. L., Kronmal, R. A., Ives, D. G., Saxton, J. A., ... & Kuller, L. H. (2008). Ginkgo biloba for prevention of dementia: a randomized controlled trial. *JAMA*, 300(19), 2253-2262.

Dementia Including Alzheimer's Disease. (2016). Retrieved from <https://www.bladderandbowelfoundation.org/bladder/bladder-conditions-and-symptoms/alzheimers-and-incontinence/>.

DeSimone II, E. M., & Viereck, L. (2011). Alzheimer's Disease: Increasing Numbers, But No Cure-Although no medications are available that can reverse the progress of the disorder, a number of drugs have limited utility in treating cognitive symptoms. *US Pharmacist*, 36(1), 26.

Diagnosis of Alzheimer's Disease and Dementia. (2016). Retrieved from [http://www.alz.org/alzheimers\\_disease\\_diagnosis.asp](http://www.alz.org/alzheimers_disease_diagnosis.asp).

Donepezil package insert. (2015, July). Retrieved from <http://www.fda.gov/downloads/drugs/guidancecomplianceregulatoryinformation/surveillance/drugmarketingadvertisingandcommunications/ucm368444.pdf>.

Dotson, V. M., Beydoun, M. A., & Zonderman, A. B. (2010). Recurrent depressive symptoms and the incidence of dementia and mild cognitive impairment. *Neurology*, 75(1), 27-34.

Efjestad, A. S., Molden, E., & Øksengård, A. R. (2013). Pharmacist-Initiated Management of Antagonistic Interactions between Anticholinergic Drugs and Acetyl cholinesterase Inhibitors in Individuals with Dementia. *Journal of the American Geriatrics Society*, 61(9), 1624-1625.

Farlow, M. R., Salloway, S., Tariot, P. N., Yardley, J., Moline, M. L., Wang, Q., ... & Satlin, A. (2010). Effectiveness and tolerability of high-dose (23 mg/d) versus standard-dose (10 mg/d) donepezil in moderate to severe Alzheimer's disease: a 24-week, randomized, double-blind study. *Clinical therapeutics*, 32(7), 1234-1251.

Feinberg, M. V., & Michocki, R. J. (1998). Clinical and regulatory concerns in Alzheimer's disease management: Role of the pharmacist. *American journal of health-system pharmacy*, 55(suppl 2), S26-S31.

Feldman, H., Gauthier, S., Hecker, J., Vellas, B., Hux, M., Xu, Y., ... & Mastey, V. (2004). Economic evaluation of donepezil in moderate to severe Alzheimer disease. *Neurology*, 63(4), 644-650.

Francis, P. T., Parsons, C. G., & Jones, R. W. (2012). Rationale for combining glutamatergic and cholinergic approaches in the symptomatic treatment of Alzheimer's disease. *Expert review of neurotherapeutics*, 12(11), 1351-1365.

Galantamine package insert. (2015, December). Retrieved from [https://www.accessdata.fda.gov/drugsatfda\\_docs/label/2004/021615lbl.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/label/2004/021615lbl.pdf).

Gardette, V., Andrieu, S., Lapeyre-Mestre, M., Coley, N., Cantet, C., Ousset, P. J., ... & Vellas, B. (2010). Predictive factors of discontinuation and switch of cholinesterase inhibitors in community-dwelling patients with Alzheimer's disease. *CNS drugs*, 24(5), 431-442.

Gellad, W. F., Grenard, J. L., & Marcum, Z. A. (2011). A systematic review of barriers to medication adherence in the elderly: looking beyond cost and regimen complexity. *The American journal of geriatric pharmacotherapy*, 9(1), 11-23.

Geriatric Depression Scale. (2016). Retrieved from <https://web.stanford.edu/~yesavage/GDS.html>.

Green, C. (2007). Modelling disease progression in Alzheimer's disease. *Pharmacoeconomics*, 25(9), 735-750.

Hauber, A. B., Gnanasakthy, A., Snyder, E. H., Bala, M. V., Richter, A., & Mauskopf, J. A. (2000). Potential savings in the cost of caring for Alzheimer's disease. *Pharmacoeconomics*, 17(4), 351-360.

Han, L., Agostini, J. V., & Allore, H. G. (2008). Cumulative anticholinergic exposure is associated with poor memory and executive function in older men. *Journal of the American Geriatrics Society*, 56(12), 2203-2210.

Hernandez, R. K., Farwell, W., Cantor, M. D., & Lawler, E. V. (2009). Cholinesterase inhibitors and incidence of bradycardia in patients with dementia in the veterans affairs new England healthcare system. *Journal of the American Geriatrics Society*, 57(11), 1997-2003.

Kroner, Z. (2009). The relationship between Alzheimer's disease and diabetes: Type 3 diabetes?. *Alternative Medicine Review*, 14(4), 373.

Larson, E. B., Reifler, B. V., Featherstone, H. J., & English, D. R. (1984). Dementia in elderly outpatients: a prospective study. *Annals of internal medicine*, 100(3), 417-423.

Levin, G. (2005). The pharmacist's role in identifying patients at risk for Alzheimer's disease. *Review*, 3, 136-145.

Lieberman, J. A. (2004). Managing anticholinergic side effects. *Prim Care Companion J Clin Psychiatry*, 6(Suppl 2), 20-23.

Livingston, G., & Katona, C. (2004). The place of memantine in the treatment of Alzheimer's disease: a number needed to treat analysis. *International journal of geriatric psychiatry*, 19(10), 919-925.

Lonn, E., Bosch, J., Yusuf, S., Sheridan, P., Pogue, J., Arnold, J. M., ... & Dagenais, G. R. (2005). Effects of long-term vitamin E supplementation on cardiovascular events and cancer: a randomized controlled trial. *JAMA*, 293(11), 1338-1347.

Marasco, R., Heely, J. A., & Gardner, M. (2002). The pharmacist's role in managing patients with Alzheimer's disease. *Journal of the American Pharmacists Association: JAPhA*, 43(5 Suppl 1), S20-1.

McGuffey, E. C. (1997). Alzheimer's Disease: An Overview for the Pharmacist: This debilitating disorder affects up to 3.5 times more women than men. *Journal of the American Pharmaceutical Association (1996)*, 37(3), 347-352.

McGuinness, B., Bullock, R., Craig, D., Kerr, E., & Passmore, P. (2009). Statins for the treatment of Alzheimer's disease and dementia. *The Cochrane Library*.

McKercher, P. L., Taylor, S. D., Lee, J. A., Chao, J., & Kumar, R. N. (2003). Prescription drug use among elderly and nonelderly families. *Journal of Managed Care Pharmacy*, 9(1), 19-28.

Memantine package insert. (2013, October). Retrieved from <https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=b9f27baf-aa2a-443a-9ef5-e002d23407ba>.

Migliaccio-Walle, K., Getsios, D., Caro, J. J., Ishak, K. J., O'Brien, J. A., Papadopoulos, G., & AHEAD Study Group. (2003). Economic evaluation of galantamine in the treatment of mild to moderate Alzheimer's disease in the United States. *Clinical therapeutics*, 25(6), 1806-1825.

Mild Cognitive Impairment. (2016). Retrieved from <http://www.alz.org/dementia/mild-cognitive-impairment-mci.asp>.

Miller, E. R., Pastor-Barriuso, R., Dalal, D., Riemersma, R. A., Appel, L. J., & Guallar, E. (2005). Meta-analysis: high-dosage vitamin E supplementation may increase all-cause mortality. *Annals of internal medicine*, 142(1), 37-46.

Mölsä, P. K., Marttila, R. J., & Rinne, U. K. (1986). Survival and cause of death in Alzheimer's disease and multi-infarct dementia. *Acta Neurologica Scandinavica*, 74(2), 103-107.

Needy Meds. (2016). Retrieved from <http://www.needymeds.org/>.

Neugroschl, J., & Wang, S. (2011). Alzheimer's disease: diagnosis and treatment across the spectrum of disease severity. *Mount Sinai Journal of Medicine: A Journal of Translational and Personalized Medicine*, 78(4), 596-612.

Parnetti, L., Amici, S., Lanari, A., & Gallai, V. (2001). Pharmacological treatment of non-cognitive disturbances in dementia disorders. *Mechanisms of ageing and development*, 122(16), 2063-2069.

Pouryamout, L., Dams, J., Wasem, J., & Dodel, R. (2012). Economic Evaluation of Treatment Options in Patients with Alzheimer's Disease. *Drugs*, 72(6), 789-802.

Rabins, P. V., Blacker, D., Rovner, B. W., Rummans, T. A., Schneider, L. S., Tariot, P. N., ... & Cook, I. A. (2007). American Psychiatric Association practice guideline for the treatment of patients with Alzheimer's disease and other dementias. *The American journal of psychiatry*, 164(12 Suppl), 5-56.

Radcliff, S., Yue, J., Rocco, G., Aiello, S. E., Ickowicz, E., Hurd, Z., ... & Beers, M. H. (2015). American Geriatrics Society 2015 updated beers criteria for potentially inappropriate medication use in older adults. *Journal of the American Geriatrics Society*, 63(11), 2227-2246.

Rivastigmine package insert. (2015, February). Retrieved from [http://www.accessdata.fda.gov/drugsatfda\\_docs/label/2006/020823s016,021025s008lbl.pdf](http://www.accessdata.fda.gov/drugsatfda_docs/label/2006/020823s016,021025s008lbl.pdf).

Rosenberg, P. B., Mielke, M. M., Xue, Q. L., & Carlson, M. C. (2010). Depressive symptoms predict incident cognitive impairment in cognitive healthy older women. *The American Journal of Geriatric Psychiatry*, 18(3), 204-211.

Rosenberg, P. B., Mielke, M. M., Appleby, B., Oh, E., Leoutsakos, J. M., & Lyketsos, C. G. (2011). Neuropsychiatric symptoms in MCI subtypes: the importance of executive dysfunction. *International journal of geriatric psychiatry*, 26(4), 364-372.

Rudolph, J. L., Salow, M. J., Angelini, M. C., & McGlinchey, R. E. (2008). The anticholinergic risk scale and anticholinergic adverse effects in older persons. *Archives of internal medicine*, 168(5), 508-513.

Saczynski, J. S., Beiser, A., Seshadri, S., Auerbach, S., Wolf, P. A., & Au, R. (2010). Depressive symptoms and risk of dementia The Framingham Heart Study. *Neurology*, 75(1), 35-41.

Sadowsky, C., Perez, J. A., Bouchard, R. W., Goodman, I., & Tekin, S. (2010). Switching from oral cholinesterase inhibitors to the rivastigmine transdermal patch. *CNS neuroscience & therapeutics*, 16(1), 51-60.

Savva, G. M., Zaccai, J., Matthews, F. E., Davidson, J. E., McKeith, I., & Brayne, C. (2009). Prevalence, correlates and course of behavioural and psychological symptoms of dementia in the population. *The British Journal of Psychiatry*, 194(3), 212-219.

Schneider, L. S., Dagerman, K., & Insel, P. S. (2006). Efficacy and adverse effects of atypical antipsychotics for dementia: meta-analysis of randomized, placebo-controlled trials. *The American Journal of Geriatric Psychiatry*, 14(3), 191-210.

Schneider, L. S., Dagerman, K. S., Higgins, J. P., & McShane, R. (2011). Lack of evidence for the efficacy of memantine in mild Alzheimer disease. *Archives of neurology*, 68(8), 991-998.

Shumaker, S. A., Legault, C., Kuller, L., Rapp, S. R., Thal, L., Lane, D. S., ... & Masaki, K. (2004). Conjugated equine estrogens and incidence of probable dementia and mild cognitive impairment in postmenopausal women: Women's Health Initiative Memory Study. *JAMA*, 291(24), 2947-2958.

Skelton, J. B. (2008). White paper on expanding the role of pharmacists in caring for individuals with Alzheimer's disease. *Journal of the American Pharmacists Association: JAPhA*, 48(6).

Svendsboe, E., Terum, T., Testad, I., Aarsland, D., Ulstein, I., Corbett, A., & Rongve, A. (2016). Caregiver burden in family carers of people with dementia with Lewy bodies and Alzheimer's disease. *International journal of geriatric psychiatry*.

Swallowing Disorders (Dysphagia) in Adults. (2016). Retrieved from <http://www.asha.org/public/speech/swallowing/Swallowing-Disorders-in-Adults/>.

Tan, C. C., Yu, J. T., Wang, H. F., Tan, M. S., Meng, X. F., Wang, C., ... & Tan, L. (2014). Efficacy and safety of donepezil, galantamine, rivastigmine, and memantine for the treatment of Alzheimer's disease: a systematic review and meta-analysis. *Journal of Alzheimer's Disease*, 41(2), 615-631.

Terrie, Y.C. New perspectives on the pathogenesis and treatment of Alzheimer's disease. (2015). Retrieved from <https://www.pharmacytimes.org/landing/279>.

Tett, S. E., Higgins, G. M., & Armour, C. L. (1993). Impact of pharmacist interventions on medication management by the elderly: a review of the literature. *Annals of Pharmacotherapy*, 27(1), 80-86.

The Montreal Cognitive Assessment. (2016). Retrieved from <http://www.mocatest.org/>.

Traynor, K. (2015, April 1). Pharmacy News: Effective drug therapy for Alzheimer's disease remains elusive. Retrieved from <http://www.ashp.org/menu/news/pharmacynews/newsarticle.aspx?id=4189>.

U.S. Pharmacopeial Convention. USP Pictograms. (2016). Retrieved from <http://www.usp.org/usp-healthcare-professionals/related-topics-resources/usp-pictograms>.

Versijpt, J. (2014). Effectiveness and cost-effectiveness of the pharmacological treatment of Alzheimer's disease and vascular dementia. *Journal of Alzheimer's Disease*, 42(s3), S19-S25.

Veterans Administration/ Saint Louis University Mental Status exam (2016). Retrieved from <http://aging.slu.edu/index.php?page=saint-louis-university-mental-status-slums-exam>.

Wang, J., Yu, J. T., Wang, H. F., Meng, X. F., Wang, C., Tan, C. C., & Tan, L. (2014). Pharmacological treatment of neuropsychiatric symptoms in Alzheimer's disease: a systematic review and meta-analysis. *Journal of Neurology, Neurosurgery & Psychiatry*, jnnp-2014.

What We Know Today About Alzheimer's Disease. (2016). Retrieved from [http://www.alz.org/research/science/alzheimers\\_disease\\_causes.asp](http://www.alz.org/research/science/alzheimers_disease_causes.asp).

Wiens, C. The challenges of medication management in patients with Alzheimer's disease. The Canadian Alzheimer's Disease Review. (2003). Retrieved from [http://www.stacommunications.com/customcomm/Back-issue\\_pages/AD\\_Review/ad2003e.html](http://www.stacommunications.com/customcomm/Back-issue_pages/AD_Review/ad2003e.html).

Wollen, K. A. (2010). Alzheimer's disease: the pros and cons of pharmaceutical, nutritional, botanical, and stimulatory therapies, with a discussion of treatment strategies from the perspective of patients and practitioners. *Altern. Med. Rev*, 15(3), 223-244.

Work Group on Alzheimer's Disease and Other Dementias. (2007, October). Practice Guideline for the Treatment of Patients with Alzheimer's Disease and Other Dementias. 2<sup>nd</sup> ed. Retrieved from [http://psychiatryonline.org/pb/assets/raw/sitewide/practice\\_guidelines/guidelines/alzheimers.pdf](http://psychiatryonline.org/pb/assets/raw/sitewide/practice_guidelines/guidelines/alzheimers.pdf).

Yang, M., Xu, D. D., Zhang, Y., Liu, X., Hoeven, R., & Cho, W. C. S. (2014). A systematic review on natural medicines for the prevention and treatment of Alzheimer's disease with meta-analyses of intervention effect of ginkgo. *The American journal of Chinese medicine*, 42(03), 505-521.

Zagaria, M.A. (2011). Predisposition to infection in the elderly. *US Pharmacist*, 36, 28-31

## Module 15 Resources

This list of resources has been identified by HRSA, the expert panel, and a literature search to help guide health care professionals and primary care providers provide assistance to persons with dementia and their care partners.

Alzheimer's Association

<http://www.alz.org>

1-800-272-3900 (toll-free)

1-866-403-3073 (TDD/toll-free)

Alzheimer's Disease (Centers for Disease Control and Prevention) [Retrieved from](http://www.cdc.gov/aging/aginginfo/alzheimers.htm)

<http://www.cdc.gov/aging/aginginfo/alzheimers.htm>

Alzheimer's Disease Education and Referral (ADEAR) Center

[Retrieved from http://www.nia.nih.gov/alzheimers](http://www.nia.nih.gov/alzheimers)

1-800-438-4380 (toll-free)

Alzheimer's Foundation of America

[Retrieved from http://www.alzfdn.org](http://www.alzfdn.org)

1-866-AFA-8484 (1-866-232-8484; toll-free)

Association for Frontotemporal Degeneration

[Retrieved from http://www.theaftd.org/](http://www.theaftd.org/)

1-866-507-7222

Brain Health Resource

[Retrieved from http://www.nia.nih.gov/health/publication/brain-health-resource](http://www.nia.nih.gov/health/publication/brain-health-resource)

This presentation toolkit offers current, evidence-based information and resources to facilitate conversations with older people about brain health. Designed for use at senior centers and in other community settings, it contains a PowerPoint presentation, an educator guide, handouts, and a resource list. Materials are written in plain language and explain what people can do to help keep their brains functioning best as they age.

Centers for Disease Control and Prevention

[Retrieved from http://www.cdc.gov/aging/aginginfo/alzheimers.htm](http://www.cdc.gov/aging/aginginfo/alzheimers.htm)

Early-Onset Alzheimer's Disease: A Resource List

[Retrieved from http://www.nia.nih.gov/alzheimers/early-onset-alzheimers-disease-resource-list](http://www.nia.nih.gov/alzheimers/early-onset-alzheimers-disease-resource-list)

1-800-438-4380 (toll-free)

Frontotemporal Disorders: Information for Patients, Families, and Caregivers

[Retrieved from http://www.nia.nih.gov/alzheimers/publication/frontotemporal-disorders/introduction](http://www.nia.nih.gov/alzheimers/publication/frontotemporal-disorders/introduction)

Lewy Body Dementia Association  
Retrieved from <http://www.lbda.org/node/7>  
1-404-935-6444

Lewy Body Dementia: Information for Patients, Families, and Professionals  
Retrieved from <http://www.nia.nih.gov/alzheimers/publication/lewy-body-dementia/introduction>

National Parkinson Foundation  
Retrieved from <http://www.Parkinson.org>  
1-800-473-4636

The Dementias: Hope Through Research  
Retrieved from <http://www.nia.nih.gov/alzheimers/publication/dementias/introduction>

Understanding Memory Loss: What to Do When You Have Trouble Remembering  
Retrieved from <https://www.nia.nih.gov/alzheimers/publication/understanding-memory-loss/introduction>

This easy-to-read booklet explains the difference between mild forgetfulness and more serious memory problems; describes the causes of memory problems and how they can be treated; and discusses how to cope with serious memory problems