

**St. Joseph's Health Centre Health Sciences Library  
and the Alzheimer Society Canada  
Alzheimer Awareness Month January 2017  
dementia: current research - a recommended reading list**

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### Physiology and pathology

1. Kim J, Shweizer TA, Fischer CE, Munoz DG. **The role of cerebrovascular disease on cognitive and functional status and psychosis in severe Alzheimer's disease.** J Alzheimers Dis 2017;55(1):381-389 [abstract](#)
2. Kleemeyer MM, Kuhn S, Prindle J, Bodammer NC, Brechtel L, Garthe A, Kempermann G, et al. **Changes in fitness are associated with changes in hippocampal microstructure and hippocampal volume among older adults.** Neuroimage 2016: epub ahead of print [abstract](#)
3. Pandya S, Kuceyeski A, Raj A. **Alzheimer's Disease Neuroimaging Initiative. The brain's structural connectome mediates the relationship between regional neuroimaging biomarkers in Alzheimer's disease.** J Alzheimer's Dis 2017;55(4):1639-1657 [abstract](#)
4. Tsuang DW, Bird DT, Naj AC, Schellenberg GD. (Alzheimer's disease Genetics Consortium: ADGV). **Genomic variants, genes, and pathways of Alzheimer's disease.** American Journal of Medical Genetics Part B: Neuropsychiatric Genetics 2017;174(1):5-26 [abstract](#)

### Prevention

5. Chang ST. **Cognitive reserve and the prevention of dementia: the role of physical and cognitive activities.** Curr Psychiatry Res 2016: epub ahead of print [abstract](#)
6. Chapman SB, Aslan S, Spence JS, Keebler MW, DeFina LF, Didehbani N, Perez AM, Lu H, D'Esposito M. **Distinct brain and behavioral benefits from cognitive vs physical training: a randomized trial in aging adults.** Front Hum Neurosci 2016: epub ahead of print [abstract](#)
7. Fougere B, Oustric S, Delrieu J, Chicoulaa B, Escourrou E, Rolland Y, Nourhashemi F, Vellas B. FAP Group. **Implementing assessment of cognitive function and frailty into primary care: data from frailty and Alzheimer disease prevention into primary care (FAP) study pilot.** J Am Med Dir Assoc 2017;18(1):47-52 [abstract](#)
8. Hayes SM, Hayes JP, Williams VJ, Liu H, Verfaellie M. **FMRI activity during associative encoding is correlated with cardiorespiratory fitness and source memory performance in older adults.** Cortex 2017: epub ahead of print [abstract](#)

9. Ma CL, Ma XT, Wang JJ, Liu H, Chen YF, Yang Y. **Physical exercise induces hippocampal neurogenesis and prevents cognitive decline.** Behav Brain Res 2017: epub ahead of print [abstract](#)
10. Maliszewska-Cyna E, Lynch M, Oore J, Nagy PM, Aubert I. **The benefits of exercise and metabolic interventions for the prevention and early treatment of Alzheimer's disease.** Curr Alzheimer Res 2017: epub ahead of print [abstract](#)
11. Sexton CE, Betts JF, Demnitz N, Dawes H, Ebmeier KP, Johansen-Berg H. **A systematic review of MRI studies examining the relationship between physical fitness and activity and the white matter of the ageing brain.** Neuroimag 2016: epub ahead of print [abstract](#)
12. Silva BSNC, Gregory MA, Gill DP, Petrella RJ. **Multiple-modality exercise and mind-motor training to improve cardiovascular health and fitness in older adults at risk for cognitive impairment: A randomized controlled trial.** Arch Gerontol Geriatr 2017: epub ahead of print [abstract](#)
13. Stephen R, Hongisto K, Solomon A, Lonroos E. **Physical activity and Alzheimer's disease: a systematic review.** J Gerontol A Biol Sci Med Sci 2017: epub ahead of print [abstract](#)

## **Causes and risk factors**

14. Fougere B, Boulanger E, Nourhashemi F, Guyonnet S, Cesari M. **Chronic inflammation: accelerator of biological aging.** J Gerontol A Biol Sci Med Sci 2016: epub ahead of print [abstract](#)
15. Chen H, Kwong JC, Copes R, Tu K, Villeneuve PJ, van Donkelaar RT et al. **Living near major roads and the incidence of dementia, Parkinson's disease, and multiple sclerosis: a population-based cohort study.** Lancet 2017; Epub ahead of print [abstract](#)
16. Davis WA, Zilkens RR, Starkstein SE, Davis TM, Bruce DG. **Dementia onset, incidence and risk in type 2 diabetes: a matched cohort study with the Fremantle Diabetes Study Phase I.** Diabetologia 2017;60(1):89-97 [abstract](#)
17. G SB, Choi S, Krishnan J, K R. **Cigarette smoke and related risk factors in neurological disorders: an update.** Biomed Pharmacother 2017;85:79-86 [abstract](#)
18. Gonzalez-Reyes RE, Aliev G, Avila-rodrigues M, Barreto GE. **Alterations in glucose metabolism on cognition: a possible link between diabetes and dementia.** Curr Pharm Des 2016;22(7):812-8 [abstract](#)
19. Italian Longitudinal Study on Aging Working Group. **Reversible cognitive frailty, dementia, and all-cause mortality. The Italian Longitudinal Study on Aging.** J Am Med Dir Assoc 2017;18(1):89e1-89e8 [abstract](#)
20. Li Y, Li Y, Li X, Zhang S, Zhao J, Zhu X, Tian G. **Head injury as a risk factor for dementia and Alzheimer's disease: a systematic review and meta-analysis of 32 observational studies.** PLoS One 2017;12(1): epub ahead of print [abstract](#)

21. Pike C. **Sex (gender) and the development of Alzheimer's disease.** Journal of Neuroscience Research 2017;2;95(1-2):671-680 [abstract](#)
22. Tournissac M, Vandal M, Francois A, Planel E, Calon F. **Old age potentiates cold-induced tau phosphorylation: linking thermoregulatory deficit with Alzheimer's disease.** Neurobiol Aging 2017.50(1):25-29 [abstract](#)

### Management and care non pharm

23. Amjad H, Wong SK, Roth DL, Huang J, Willink A, Black BS, Johnston D, Rabins PV, Gitlin LN et al. **Health services utilization in older adults with dementia receiving care coordination: the MIND at home trial.** Health Serv Res 2017: epub ahead of print [abstract](#)
24. Burnside LD, Knecht MJ, Hopley EK, Logsdon RG. **Here: now - conceptual model of the impact of an experiential arts program on persons with dementia and their care partners.** Dementia 2017;16(1):29-45 [abstract](#)
25. Camic PM, Baker EL, Tischler V. **Theorizing how art gallery interventions impact people with dementia and their caregivers.** Gerontologist 2016;56(6):1033-1041 [abstract](#)
26. Cass SP. **Alzheimer's disease and exercise: a literature review.** Curr sports Med Rep 2017;16(1):19-22 [abstract](#)
27. Cassilhas RC, Tufik S, de Mello MT. **Physical exercise, neuroplasticity, spatial learning and memory.** Cell Mol Life Sci 2016;73(5):975-83 [abstract](#)
28. Estanga A, Ecay-Torres M, Ibanez A, Izagirre J, Villanua J, Garcia-Sebastian M, et al. **Beneficial effect of bilingualism on Alzheimer's disease CSF biomarkers and cognition.** Neurobiology of Aging 2017 Feb;50:144-151 [abstract](#)
29. Feiner T, Leucht S, Forsti H, Zijlstra W, Haussermann P. **Effects of short-term exercise interventions on behavioral and psychological symptoms in patients with dementia: a systematic review.** J Alzheimers Dis 2017;55(4):1583-1594 [abstract](#)
30. Herron RV, Rosenberg MW. **"Not there yet": Examining community support from the perspective of people with dementia and their partners in care.** Soc Sci Med 2017: epub ahead of print [abstract](#)
31. Hitzig SL, Sheppard CL. **Implementing Montessori methods for dementia: a scoping review.** Gerontologist 2017: epub ahead of print [abstract](#)
32. Hongisto K, Haliikainen I, Selander T, Tomalehto S, Vaatainen S, Martikainen J, et al. **Quality of life in relation to neuropsychiatric symptoms in Alzheimer's disease: 5-year prospective ALSOVA cohort study.** Int J Geriatr Psychiatry 2017; epub ahead of print [abstract](#)
33. Kandola A, Hendrikse J, Lucassen PJ, Yucel M. **Aerobic exercise as a tool to improve hippocampal plasticity and function in humans: practical implications**

**for mental health treatment.** Front Hum Neurosci 2016: epub ahead of print [abstract](#)

34. Mariani E, Chattat R, Vernooij-Dassen M, Koopmans R, Engels Y. **Care plan improvement in nursing homes: an integrative review.** J Alzheimers Dis 2017;55(4):1621-1638 [abstract](#)
35. Miliadiades HB, Thatcher WG. **Social engagement during game play in persons with Alzheimer's 'Innovative Practice'.** Dementia 2017: epub ahead of print [abstract](#)
36. Ng QX, Ho CYX, Koh SSH, Tan WC, Chan HW. **Doll therapy for dementia sufferers: a systematic review.** Complementary Therapies in Clinical Practice 2017;26: 42-46 [abstract](#)
37. Tretteteig S, Vatne S, Rokstad AM. **The influence of day care centres designed for people with dementia on family caregivers - a qualitative study.** BMC Geriatr 2017;17(1):5 [abstract](#)
38. Wiersma EC, Denton A. **From social network to safety net: dementia-friendly communities in rural northern Ontario.** Dementia 2016;15(1):51-68 [abstract](#)

## Management and care pharmacology

39. Dennis M, Shine L, John A, Marchant A, McGregor J, Lyons RA, Brophy S. **Risk of adverse outcomes for older people with dementia prescribed antipsychotic medication: a population based e-cohort study.** Neurol and Ther 2017;epb ahead of print [abstract](#)
40. Koponen M, Taipale H, Lavikainen P, Tanskanen A, Tiihonen J, Toippanen AM, et al. **Risk of mortality associated with antipsychotic monotherapy and polypharmacy among community-dwelling persons with Alzheimer's disease.** J Alzheimers Dis 2016;epub ahead of print [abstract](#)
41. Maust DT, Kales HC. **Medicating distress.** JAMA Intern Med 2017;177(1):42-43 [abstract](#)
42. Torvinen-Kiiskinen S, Toippanen AM, Koponen M, Tanskanen A, Tiihonen J, Hartikainen S, Taipale H. **Antidepressant use and risk of hip fractures among community-dwelling persons with and without Alzheimer's disease.** Int J Geriatr Psychiatry 2017;epub ahead of print [abstract](#)

## Nutrition

43. Alkasir R, Li J, Li X, Jin M, Zhu B. **Human gut microbiota: the links with dementia development.** Protein Cell 2016: epub ahead of print [abstract](#)
44. Beilharz JE, Kaakoush NO, Maniam J, Morris MJ. **The effect of short-term exposure to energy-matched diets enriched in fat or sugar on memory, gut microbiota and markers of brain inflammation and plasticity.** Brain Behav Immun 2016;57:304-313 [abstract](#)

45. Crichton GE, Elias MF, Torres RV. **Sugar-sweetened soft drinks are associated with poorer cognitive function in individuals with type 2 diabetes: the Maine-Syracuse Longitudinal Study.** Br J Nutr 2016;115(8):1397-1405 [abstract](#)
46. Crichton GE, Elias MF, A;lerwo A. **Chocolate intake is associated with better cognitive function: The Maine-Syracuse Longitudinal Study.** Appetite 2016;1(100):126-132 [abstract](#)
47. De Sousa Rodrigues ME, Bekhbat M, Houser M, Houser MC, Chang J, Walke DL, et al. **Chronic psychological stress and high-fat high-fructose diet disrupt metabolic and inflammatory gene networks in the brain, liver, and gut and promote behavioral deficits in mice.** Brain Behav Immun 2017;59:158-172 [abstract](#)
48. Dominguez LJ, Barbagallo M. **The relevance of nutrition for the concept of cognitive frailty.** Current Opinion in Clinical Nutrition & Metabolic Care 2017 20(1):61-68 [abstract](#)
49. Kao CC, Lin LC, Wu SC, Lin KN, Liu CK. **Effectiveness of different memory training programs on improving hyperphagic behaviors of residents with dementia: a longitudinal single-blind study.** Clin Interv Aging 2016: epub ahead of print [abstract](#)
50. Knight A, Bryan J, Murphy K. **Is the Mediterranean diet a feasible approach to preserving cognitive function and reducing risk of dementia for older adults in western countries? New insights and future directions.** Ageing Res Rev 2016;25:85-101 [abstract](#)
51. Luciano M, Corley J Cox SR, Valdes-Hernandez MC, Dickie DA, Karama S, McNeill GM, Bastin ME, Wardlaw JM, Deary IJ. **Mediterranean-type diet and brain structural change from 73 to 76 years in a Scottish cohort.** Neurology 2017; epub ahead of print [abstract](#)
52. Noakes TD, Windt J. **Evidence that supports the prescription of low-carbohydrate high-fat diets: a narrative review.** Br J Sports Med 2017;51(2):133-139 [abstract](#)
53. Romano A, Koczwara JB, Gallelli CA, Vergara D, Micioni Di Bonaventura MV, Gaetani S, Giudetti AM. **Fats for thoughts: an update on brain fatty acid metabolism.** The International Journal of Biochemistry & Cell Biology 2017; epub ahead of print [abstract](#)
54. Spyridaki EC, Avgoustinaki PD, Margioris AN. **Obesity, inflammation and cognition.** Curr Opin Behav Sci 2016;9:169-175 [abstract](#)

## Sleep

55. Cagnin A, Fragiaco F, Camporese G, Turco M, Busse C, Emani M, Montagnese S. **Sleep-wake profile in dementia with Lewy Bodies, Alzheimer's disease, and normal aging.** J Alzheimers Dis 2017;55(4):1529-1536 [abstract](#)

56. Pistollato F, Cano SS, Elio L, Vergara MM, Giampieri F, Battino M. **Associations between sleep, cortisol regulation, and diet: possible implications for the risk of Alzheimer disease.** Adv Nutr 2016;7(4):679-89 [abstract](#)
57. Shih YH, Pai MC, Huang YC, Wang JJ. **Sundown syndrome, sleep quality, and walking among community-dwelling people with Alzheimer disease.** J Am Med Dir Assoc 2017; epub ahead of print [abstract](#)

### Living longer, living well

58. Bouaziz W, Vogel T, Schmitt E, Kaltenbacn G, Geny B, Lang PO. **Health benefits of aerobic training programs in adults aged 70 and over: a systematic review.** Arch Gerontol Geriatrics 2017;69:110-127 [abstract](#)
59. Clements-Cortes A. **Artful wellness: attending chamber music concert reduces pain and increases mood and energy for older adults.** Arts Psychother 2017;52(1):41-49 [abstract](#)
60. Harkey J, Sortedahl C, Crook MM, Sminkey PV. **Meeting people "Where they are": case managers empower and motivate clients to pursue their health goals.** Prof Case Manage 2017: epub ahead of print [abstract](#)
61. McPhee JS, French DP, Jackson D, Nazroo J, Pendleton N, Degens H. **Physical activity in older age: perspectives for healthy ageing and frailty.** Biogerontology 2016;17(3):567-80 [abstract](#)
62. Seider TR, Fieo RA, O'Shea A, Porges EC, Woods AJ, Cohen RA. **Cognitively engaging activity is associated with greater cortical and subcortical volumes.** Front Ag Neurosci 2016: epub ahead of print [abstract](#)
63. Stephen R, Hongisto K, Solomon A, Lonroos E. **Physical activity and Alzheimer's disease: a systematic review.** J Gerontol A Biol Sci Med 2017; epub ahead of print [abstract](#)

### Professional and family caregivers

64. Schulz M. (Alzheimer Society of Canada). **Taking the lead: supporting staff in coping with grief and loss in dementia care.** Healthc Manage Forum 2016: epub ahead of print [abstract](#)
65. Wawrziczny E, Pasquier F, Ducharme F, Kergoat MJ, Antoine P. **Do spouse caregivers of persons with early- and late-onset dementia cope differently? a comparative study.** Arch Gerontol Geriatr 2017;69:162-168 [abstract](#)

### Emerging themes

66. Hoppe S. **Shifting uncertainties in the pre-diagnostic trajectory of early-onset dementia.** Dementia 2017: epub ahead of print [abstract](#)
67. Kepp KP. **Ten challenges of the amyloid hypothesis of Alzheimer's disease.** J Alzheimers Dis 2017;55(2):447- [abstract](#)

68. Reed BT, Behar-Cohen F, Krantic S. **Seeing early signs of Alzheimer's disease through the lens of the eye.** Current Alzheimer Research 2016; Epub ahead of print [abstract](#)

69. Roach P, (Health Quality Council of Alberta). **Young onset dementia: Negotiating future workplace roles and identities.** Dementia 2017: epub ahead of print [abstract](#)

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## Useful links

### 2017 updates from the National Institutes on Aging :

Take care of your brain [link](#)

### 2017 from the Alzheimer Society of Canada :

What is dementia, and what are the other dementias [link](#)

#### A must view:

Dealing with dementia: a TVO program January 18, 2017

<http://tvo.org/video/programs/the-agenda-with-steve-paikin/dealing-with-dementia>

Ambiguous loss and grief in dementia for families and individuals [link](#)

Ambiguous loss and grief for health care providers [link](#)

Dementia and staff grief for health care providers [link](#)

[The BrainXchange](#)

[The Alzheimer Society Canada](#)

[The Alzheimer Society of Ontario](#)

[The Murray Alzheimer Research and Education Program](#) (MAREP)

**From Ontario** - Special dementia strategy edition of the GHS bulletin [link](#)

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### Other countries -

UK dementia strategy and initiatives underway [link](#)

European dementia strategies [link](#)

US National Institute on Aging national plan to address Alzheimer's disease [link](#)

Alzheimer's Australia [link](#)

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