

Neurodegenerative Diseases – Current Awareness



The burden of neurodegenerative diseases is felt not just by those who specialise in their treatment but by healthcare workers in all areas, as well as members of the public acting as carers for those affected. It's important, then, for everyone be aware of the latest developments.

To keep you up to date, Imperial College Library has compiled a selection of the latest evidence in this important area including guidance, research, e-learning, patient information & more. There's lots to choose from this time, so remember to get in touch if you need help finding specific information!

Guidelines, Guidance and Toolkits

[Global cohort portal](#) [a searchable catalogue of cohort studies that covers both disease-focused and general population studies]

The EU Joint Programme: Neurodegenerative Disease Research

[NICE guideline \[NG71\]. Parkinson's disease in adults.](#)

NICE Guidance, 2017

[Interventional procedures guidance \[IPG593\]: Intramuscular diaphragm stimulation for ventilator-dependent chronic respiratory failure in people with motor neurone disease.](#)

NICE Guidance, 2017

[\(NICE\) Draft guideline dementia: assessment, management and support for people living with dementia and their carers](#)

British Psychological Society, 2018

[Occupational therapy for motor neuron disease.](#)

Motor Neuron Disease Association, 2017

[Evaluation and management of respiratory symptoms in motor neurone disease: Information for health and social care professionals](#)

Motor Neuron Disease Association, 2017

Evidence Summaries & Reviews

[Dementia Evaluation](#)

DynaMed, 2017

[Alzheimer dementia](#)

DynaMed, 2017

[Parkinson disease](#)

DynaMed, 2017

[Amyotrophic Lateral Sclerosis \(ALS\)](#)

DynaMed, 2017

[Multiple Sclerosis \(MS\)](#)

DynaMed, 2018

[Parkinson's disease with motor fluctuations: safinamide](#)

NICE Evidence Summaries, 2017

[Parkinson's disease with end-of-dose motor fluctuations: opicapone](#)

NICE Evidence Summaries, 2017

[Ekso exoskeleton for rehabilitation in people with neurological weakness or paralysis](#)

NICE Medtech Innovation Briefing, 2017

Drugs, prescribing and technical information

[Motor Neurone Disease Treatment Summary](#)

BNF, January 2018

[Parkinson's Disease Treatment Summary](#)

BNF, January 2018

[Dementia Treatment Summary](#)

BNF

[Essential tremor, chorea, tics, and related disorders Treatment Summary](#)

BNF

[Aricept](#)

Electronic Medicines Compendium, December 2017

[Ongentys](#)

Electronic Medicines Compendium, September 2016

[Haloperidol](#)

Electronic Medicines Compendium, September 2017

[Guideline on clinical investigation of medicinal products for the treatment of amyotrophic lateral sclerosis \(ALS\)](#)

European Medicines Agency, February 2016

[FDA approves drug to treat ALS](#)

Food and Drug Administration, May 2017

[FDA approves first drug to treat hallucinations and delusions associated with Parkinson's disease](#)

Food and Drug Administration, April 2016

[FDA approves drug to treat Parkinson's disease](#)

Food and Drug Administration, March 2017

[FDA approves first treatment for a form of Batten Disease](#)

Food and Drug Administration, April 2017

[Optimising medicines use in care homes](#)

Welsh Medicines Resource Centre, July 2016

[Anticholinergic drugs](#)

PrescQIPP, July 2016

Information for Patients

["There's a 50% chance I've a fatal disease. Do I find out?"](#)

BBC News, January 2018

[Parkinson's disease in adults: information for the public](#)

NICE Guidelines

[Living with early stage dementia](#)

Age UK

[Caring for someone with dementia](#)

Age UK

[Dementia and memory problems](#)

Royal College of Psychiatrists

[Information for carers](#)

Royal College of Psychiatrists

[All about dementia](#)

Alzheimer's Research UK

[This may be a turning point in treating neurodegenerative diseases](#)

The Guardian, December 2017

CPD and training

[Motor neurone disease \[30 minute e-learning course\]](#)

Motor Neurone Disease Association, revised 2018

[Motor neurone disease advanced care \[30 minute e-learning course\]](#)

Royal College of General Practitioners, updated 2018

[Masterclass: Parkinson's disease, 12th September 2018 \[external training fees apply\]](#)

Royal College of Occupational Therapists

[Quick neurological exam for primary care \[1 hour e-learning module\]](#)

BMJ Learning, November 2017

[Parkinson's disease: initial assessment and referral August 2017 \[1 hour e-learning module\]](#)

BMJ Learning, August 2017

[Medical interventions: dementia \[20 minute recorded presentation\]](#)

Royal Society of Medicine, September 2017

[Dementia: Promoting quality of life and an introduction to Positive Approaches to Care \(PAC\), 9th May 2018 \[external training fees apply\]](#)

British Psychological Society

[Supporting mind, body and spirit in neurological conditions, 4th May 2018 \[external training fees apply\]](#)

British Psychological Society

Recent Journal Articles

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Page, T. et al. [Instruments measuring the disease-specific quality of life of family carers of people with neurodegenerative diseases: a systematic review](#)

BMJ Open. 7 (3), 2017. [Open Access]

Lim, K. et al. [Clinical Psychopharmacology and Neuroscience - A Systematic Review of the Effectiveness of Medical Cannabis for Psychiatric, Movement and Neurodegenerative Disorders](#)

Clinical Psychopharmacology and Neuroscience. 15 (4), pp. 301-312, 2017. [Open Access]

Moore, M. & Barker, K. [The validity and reliability of the four square step test in different adult populations: a systematic review](#)

Systematic Reviews. 6, p. 187, 2017. [Open Access]

Parsons, C. & van der Steen, J. [Antimicrobial use in patients with dementia: current concerns and future recommendations](#)

CNS Drugs. 31 (6), pp. 433-438, 2017. [Library access only]

Diana, A. et al. [Gamma aminobutyric acid \(GABA\) modulators for amyotrophic lateral sclerosis/motor neuron disease](#)

Cochrane Database of Systematic Reviews, 2017

Gibbons, C. et al. [Treatment of fatigue in amyotrophic lateral sclerosis/motor neuron disease](#)

Cochrane Database of Systematic Reviews, 2018

Pritchard, J. et al. [Pharmacological treatment other than corticosteroids, intravenous immunoglobulin and plasma exchange for Guillain Barré syndrome](#)

Cochrane Database of Systematic Reviews, 2017

Chang, D. [A meta-analysis of genome-wide association studies identifies 17 new Parkinson's disease risk loci.](#)

Nature Genetics. 49 (pp. 1511-1516), 2017. [OpenAthens]

Tamanini, S et al. [In Vivo Transient and Partial Cell Reprogramming to Pluripotency as a Therapeutic Tool for Neurodegenerative Diseases.](#)

Molecular Neurobiology. (pp 1-13), 2018. [OpenAthens]

Atri, A. et al. [Effect of idalopirdine as adjunct to cholinesterase inhibitors on change in cognition in patients with Alzheimer disease three randomized clinical trials.](#)

JAMA - Journal of the American Medical Association. 319 (2) (pp 130-142), 2017. [Library access only]

Christensen, K. D. et al. [A randomized controlled trial of disclosing genetic risk information for Alzheimer disease via telephone.](#)

Genetics in Medicine. 20 (1) (pp 132-141), 2018. [OpenAthens]

Mezzarobba, S. et al. [Action observation plus sonification. A novel therapeutic protocol for Parkinson's patient with freezing of gait.](#)

Frontiers in Neurology. 8 (JAN), 2018. [Open Access]

Conrado, D. J. et al. [Dopamine Transporter Neuroimaging as an Enrichment Biomarker in Early Parkinson's Disease Clinical Trials: A Disease Progression Modeling Analysis.](#)

Clinical and Translational Science. 11 (1) (pp 63-70), 2018. [Open Access]

Buchele, F. et al. [Sodium oxybate for excessive daytime sleepiness and sleep disturbance in Parkinson disease: a randomized clinical trial.](#)

JAMA Neurology. 75 (1) (pp 114-118), 2018. [Library access only]

Lodhi, S. K. et al. [Prion disease: A review of novel transmission methods and efforts at discovering preventive and therapeutic modalities.](#)

Infectious Diseases in Clinical Practice. 26 (1) (pp 3-10), 2018. [OpenAthens]

Boada, M. et al. [Efficacy and safety of plasma exchange with 5% albumin to modify cerebrospinal fluid and plasma amyloid-beta concentrations and cognition outcomes in Alzheimer's disease patients: a multicenter, randomized, controlled clinical trial.](#)

Journal of Alzheimer's Disease. 56 (1) (pp 129-143), 2017. [Open Access]

Yoon, S. J. et al. [Effects on agitation with rivastigmine patch monotherapy and combination therapy with memantine in mild to moderate Alzheimer's disease: a multicenter 24-week prospective randomized open-label study \(the Korean EXelon Patch and combination with mEmantine Comparative Trial study\).](#)

Geriatrics and Gerontology International. 17 (3) (pp 494-499), 2017. [OpenAthens]

Takamatsu, Y. et al. [Combined immunotherapy with "anti-insulin resistance" therapy as a novel therapeutic strategy against neurodegenerative diseases.](#)

Parkinson's Disease. 3 (1), 2017. [Open Access]

Arevalo-Villalobos, J. I. et al. [Immunotherapies for neurodegenerative diseases: current status and potential of plant-made biopharmaceuticals.](#)

Expert Review of Vaccines. 16 (2) (pp 151-159), 2017. [Library access only]

Pankiewicz, J. E & Sadowski, M. J. [APOE genotype and Alzheimer's immunotherapy.](#)

Oncotarget. 8 (25) (pp 39941-39942), 2017. [Open Access]

Brudek, T. et al. [Autoimmune antibody decline in Parkinson's disease and Multiple System Atrophy; a step towards immunotherapeutic strategies.](#)

Molecular Neurodegeneration. 12 (1), 2017. [Library access only]

Finke, J. M. & Banks, W. A. [Modulators of IgG penetration through the blood-brain barrier: Implications for Alzheimer's disease immunotherapy.](#)

Human Antibodies. 25 (3-4) (pp 131-146), 2017. [Library access only]

Atri, A. et al. [Effect of Idalopirdine as Adjunct to Cholinesterase Inhibitors on Change in Cognition in Patients With Alzheimer Disease: Three Randomized Clinical Trials.](#)

JAMA. 319(2):130-142, 2018. [Library access only]

Bennett, D. A. [Lack of Benefit With Idalopirdine for Alzheimer Disease: Another Therapeutic Failure in a Complex Disease Process.](#)

JAMA. 319(2):123-125, 2018. [Library access only]

Schwartz, M. [Can immunotherapy treat neurodegeneration?](#)

Science. 357(6348):254-255, 2017. [Library access only]

Wang, H. et al. [Chronic oxidative damage together with genome repair deficiency in the neurons is a double whammy for neurodegeneration: is damage response signaling a potential therapeutic target?](#)

Mechanisms of Ageing & Development. 161(Pt A):163-176, 2017. [OpenAthens]

Tong, T. et al. [A Novel Grading Biomarker for the Prediction of Conversion From Mild Cognitive Impairment to Alzheimer's Disease.](#)

IEEE Transactions on Biomedical Engineering. 64(1):155-165, 2017. [OpenAthens]

Deming, Y. et al. [Genome-wide association study identifies four novel loci associated with Alzheimer's endophenotypes and disease modifiers.](#)

Acta Neuropathologica. 133(5):839-856, 2017 May. [OpenAthens]

Joshi, C. R. [Destination Brain: the Past, Present, and Future of Therapeutic Gene Delivery.](#)

Journal of Neuroimmune Pharmacology: The Official Journal Of The Society
On Neuroimmune Pharmacology. 12(1):51-83, 2017. [OpenAthens]

Soininen, H. et al. [24-month intervention with a specific multinutrient in people with prodromal Alzheimer's disease \(LipiDiDiet\): a randomised, double-blind, controlled trial.](#)

Lancet Neurology. 16(12):965-975, 2017. [OpenAthens]

Palluzzi, F. et al. [A novel network analysis approach reveals DNA damage, oxidative stress and calcium/cAMP homeostasis-associated biomarkers in frontotemporal dementia.](#)

PLoS ONE. 12(10):e0185797, 2017. [Open Access]

Ozadali-Sari, K. et al. [Novel multi-targeted agents for Alzheimer's disease: Synthesis, biological evaluation, and molecular modeling of novel 2-\[4-\(4-substitutedpiperazin-1yl\)phenyl\]benzimidazoles.](#)

Bioorganic Chemistry. 72:208-214, 2017. [Library access only]

Videnovic, A. et al. [Timed Light Therapy for Sleep and Daytime Sleepiness Associated With Parkinson Disease: A Randomized Clinical Trial.](#)

JAMA Neurology. 74(4):411-418, 2017. [Library access only]

Kovacs, G. G. et al. [Evaluating the Patterns of Aging-Related Tau Astroglialopathy Unravels Novel Insights Into Brain Aging and Neurodegenerative Diseases.](#)

Journal of Neuropathology & Experimental Neurology. 76(4):270-288, 2017. [OpenAthens]

Selected Library Books and Chapters

For location and availability please check [Library Search](#), the Imperial College Library catalogue.

James, J. et al. 2017. **Excellent dementia care in hospitals: A guide to supporting people with dementia and their carers.**

Husain, M. & Schott, J. M. 2016. **Oxford textbook of cognitive neurology and dementia**, First ed.

Jenkins, C. et al. 2016. **Dementia care at a glance.**

Waldemar, G. & Burns, A. S. 2017. **Alzheimer's disease**, Second ed. [e-book also available]

Cummings, J. & Pillai, J. 2017. **Neurodegenerative diseases: Unifying principles.**

Emre, M. 2015. **Cognitive Impairment and Dementia in Parkinson's Disease**, Second ed. [Oxford Medicine Online e-book]

Ingelsson, M. & Lannfelt, L. 2016. **Immunotherapy and biomarkers in neurodegenerative disorders.**

Kovacs, G. 2015. **Neuropathology of neurodegenerative diseases: A practical guide.**

[Oxford Medicine Online](#)

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