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

Many articles are available with your NICE OpenAthens account - sign in when prompted. Some articles may only be accessible on library computers, as individually specified - and we’ll be happy to help you out when you visit! If in doubt, please contact your librarian.

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

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]


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]


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]


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]

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

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

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?

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.
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