

Studies

[Biophysical assessment of the molecular mechanisms of Tau aggregation and its role in Alzheimer's disease](#)

Alzheimer's disease (AD) is characterized by the intracellular aggregation of the microtubule-associated protein Tau. While the presence of large, insoluble neurofibrillary tangles has long been the primary focus of this research, a paradigm shift in the field now highlights smaller, soluble oligomers as the more neurotoxic Tau species leading to neuronal death and cognitive decline. This leaves the important and ill-understood question of what molecular events lead to the conversion of healthy, functional Tau into these toxic oligomers. This review addresses the knowledge gap by investigating existing literature on the upstream mechanisms responsible for the onset of neurodegeneration and connecting it to disease pathogenesis.

[Mitigating disparities in diagnosis of dementia](#)

The field of Alzheimer's disease and related dementias (AD/ADRD) is undergoing a transformative shift with a better understanding of disease biology, biomarker-based diagnostics, and disease-modifying therapies. Yet, these advancements risk exacerbating existing disparities in diagnosis and care. The 2024 Alzheimer's Association International Conference (AAIC) Advancements: Exploring Equity in Diagnosis convened interdisciplinary experts to address these inequities and chart a path toward population-generalizable research and practice.

[Social connection and cognitive health: A review of concepts, measures, and research priorities](#)

This review provides updated guidance for researchers interested in testing new mechanistic models of social connection and cognitive health over the life course.

[Non-verbal dichotic listening: A new cognitive hearing test for dementia](#)

On NVDLT, all dementia groups except rtvFTD performed worse than controls; tAD, logopenic-variant PPA and nonfluent/agrammatic-variant PPA performed worse than rtvFTD. NVDLT performance predicted atrophy in the retrosplenial cortex and hippocampus. NVDLT score discriminated tAD patients from controls with near-perfect accuracy (area under the curve [AUC] = 0.99) and predicted daily-life hearing function ($r = 0.57$).

[Exploring the association between medication, patient-specific factors and delirium in hospitalised patients: a 10-year retrospective, population-based cohort study in Iceland](#)

Numerous medications and other patient-specific risk factors have been identified, which underlines the complexity of delirium development. To strengthen patient safety and hinder the development of delirium, an increased emphasis is needed to review medication use and improve our understanding of medication risk associated with delirium cause, treatment and prevention. Specific prescribing/deprescribing advice should be developed to inform prescribing practice and patient safety.

[Engagement with behaviour change in people with mild cognitive impairment and mild frailty: a qualitative study](#)

Implementing these facilitators into existing and new health promotion interventions delivered to older adults, with suspected but unacknowledged MCI, could overcome the current barriers people with MCI face when trying to engage and benefit from interventions.

[Focused ultrasound effective at non-invasively reducing brain inflammation](#)

In a new study, first author Sarina Grewal in Dr Sophie Morse's group (UK DRI at Imperial) led a study showing that ultrasound can non-invasively reduce brain inflammation by modulating the activity of microglia, the brain's resident immune cells. The paper, [published in npj Acoustics](#), suggests that therapeutic effects are largely dependent on the exact frequency of ultrasound and its acoustic pressure.

[Exploring the impact of Namaste Care for individuals with advanced dementia: a systematic review of costs, effects and benefits](#)

The findings suggest that Namaste Care improves well-being, reduces caregiver stress and lowers the use of antidepressant and anti-anxiety medications at a moderate cost. The current literature is characterised by small, non-random, heterogeneous studies. Randomised controlled trials, which include economic evaluations, help to improve evidence-based research to support funding and implementation decisions on Namaste Care.

Blogs

[The Mental Capacity Act and Deprivation of Liberty: why it matters](#)

The Mental Capacity Act (MCA) is the legal foundation for decisions made on behalf of people who cannot decide for themselves, because of dementia, learning disability, brain injury or serious illness. However, outdated guidance, overstretched local authorities and legal uncertainty are resulting in unlawful detentions, avoidable deaths, and a system unable to meet demand.

[How to make a visit to the hospital more Age and Dementia Friendly](#)

David and Robert are looking for a department at St James's Hospital – not because they have an appointment, but because they want to know how easy it is to find. They are both members of the Leeds Age-friendly Steering Group tasked with being Secret Shoppers for the day by Leeds Teaching Hospitals. They are looking at how we can become more Age and Dementia-friendly, not just in our services, but in the physical environment of our hospitals.

News

[Calling on the Government to demand a better future for people living with dementia](#)

Charities, clinicians, academics and Royal Colleges are asking for a bold national ambition for the Modern Service Framework for Dementia and Frailty.

[Reports expose a dementia care system failing patients at every stage](#)

New findings published by Alzheimer's Society reveal that dementia patients routinely face prolonged delays to diagnosis, followed by gaps and stark inequalities in treatment and support - highlighting the need for the same focus and urgency seen in other major conditions.

[New Alzheimer's blood tests to detect Alzheimer's pathology gain European Conformity mark](#)

In May 2026, two blood tests have received a Conformité Européenne (CE) mark for within the European Economic Area (EEA), including Elecsys® pTau217, developed by Roche in collaboration with Eli Lilly, as well as the Lumipulse G pTau 217 Plasma assay by Fujirebio Europe N.V.

elderly vascular geriatrics
Alzheimer's environment
cognition early onset lewy bodies support
fronto-temporal dementia
research memory old age



NHS

Mersey Care
NHS Foundation Trust

27 May 2026

[Boots Hearingcare joins Alzheimer's Research UK to raise awareness of hearing loss and dementia risk](#)

Boots Hearingcare is joining the UK's leading dementia research charity as a [Think Brain Health](#) partner. Together, the partnership aims to inspire people to look after their brain health through regular hearing checks and wearing hearing devices when prescribed. The Think Brain Health campaign helps people identify the simple steps they can take to look after their brains to help reduce the risk of developing dementia, such as preventing and managing hearing loss.

[Diagnosing dementia: developing blood tests at the UK Dementia Research Institute](#)

The UK Dementia Research Institute (UK DRI), based across seven Russell Group universities are studying a range of biomarkers that could be used to develop new, scalable diagnostic tests, including blood tests. The UK DRI has world leading expertise across fluid, digital and imaging biomarkers, to enable accessible, accurate, and early detection for the first time.

