



Healthy Ageing Current Awareness Update

01 May 2024

Welcome to the monthly Healthy Ageing Current Awareness Update, produced by **UKHSA Knowledge and Library Services**. The purpose of this update is to provide you with the latest, best evidence about healthy ageing and dementia risk reduction, to help you make informed decisions.

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- **Ageism and discrimination**

Healthy lifestyle and dementia prevention

1. Comorbid Word Reading and Mathematics Computation Difficulty at Start of First Grade

30-04-2024 - National Library of Medicine

The purpose of this analysis was to describe cognitive processes associated with comorbid difficulty between word reading (WR) and mathematics computation (MC) at the start of first grade among children selected for WR and MC delays. A sample of 234 children (mean age 6.50 years, SD = 0.31) was assessed on WR, MC, core cognitive processes (phonological processing, rapid automatized naming, ... [Read more...](#)

2. Sweet, bloody consumption - what we eat and how it affects vascular ageing, the BBB and kidney health in CKD

30-04-2024 - National Library of Medicine

In today's industrialized society food consumption has changed immensely toward heightened red meat intake and use of artificial sweeteners instead of grains and vegetables or sugar, respectively. These dietary changes affect public health in general through an increased incidence of metabolic diseases like diabetes and obesity, with a further elevated risk for cardiorenal complications. [Read more...](#)

3. Distance-based novelty detection model for identifying individuals at risk of developing Alzheimer's disease

30-04-2024 - National Library of Medicine

INTRODUCTION: Novelty detection (ND, also known as one-class classification) is a machine learning technique used to identify patterns that are typical of the majority class and can discriminate deviations as novelties. In the context of Alzheimer's disease (AD), ND could be employed to detect abnormal or atypical behavior that may indicate early signs of cognitive decline or the presence of ... [Read more...](#)

4. Smartphone app for lifestyle improvement improves brain health and boosts the vitality and cognitive function of healthy middle-aged adults

30-04-2024 - National Library of Medicine

CONCLUSION: The results of this study suggest that improving lifestyle habits through smartphone apps can improve brain health and cognitive and emotional performance of healthy middle-aged adults. This is consistent with previous research that suggests that FA integrity in the limbic-thalamo-cortical pathway influences cognitive function and emotion regulation. [Read more...](#)

5. Efficacy and suitability of adding short-term psychodynamic psychotherapy (STPP) to pharmacotherapy in patients with depressive disorders: a systematic review

30-04-2024 - National Library of Medicine

CONCLUSIONS: Combining STPP with antidepressants appeared to be helpful both in a short-term and in a long-term perspective. Still, there are few rigorous studies with large samples and further research is needed to identify which subgroups of patients may benefit more from STPP. [Read more...](#)

6. The Effect of Everyday-Life Social Contact on Pain

30-04-2024 - National Library of Medicine

Pain is a biopsychosocial phenomenon, resulting from the interplay between physiological and psychological processes and social factors. Given that humans constantly interact with others, the effect of social factors is particularly relevant. Documenting the significance of the social modulation of pain, an increasing number of studies have investigated the effect of social contact on ... [Read more...](#)

7. Integrated Proteomics and Protein Co-expression Network Analysis Identifies Novel Epileptogenic Mechanism in Mesial Temporal Lobe Epilepsy

30-04-2024 - National Library of Medicine

Over 50 million people worldwide are affected by epilepsy, a common neurological disorder that has a high rate of drug resistance and diverse comorbidities such as progressive cognitive and behavioural disorders, and increased mortality from direct or indirect effects of seizures and therapies. Despite extensive research with animal models and human studies, limited insights have been gained ... [Read more...](#)

8. In vivo validation of late-onset Alzheimer's disease genetic risk factors

30-04-2024 - National Library of Medicine

INTRODUCTION: Genome-wide association studies have identified over 70 genetic loci associated with late-onset Alzheimer's disease (LOAD), but few candidate polymorphisms have been functionally assessed for disease relevance and mechanism of action. [Read more...](#)

9. Anticholinergic and sedative medication use in older patients with cognitive concerns

30-04-2024 - National Library of Medicine

CONCLUSION: AC and sedative medications and polypharmacy were prevalent in this sample of older patients. Though both drug classes had negative relationships with AP and EF, sedatives had a particularly negative association with AP. Contrary to our hypotheses, memory was not associated with medication use however, anticholinergic burden was low within the sample, ... [Read more...](#)

10. Food-related inhibitory control deficits in young male adults with obesity: Behavioral and ERP evidence from a food-related go/no-go task

30-04-2024 - National Library of Medicine

CONCLUSIONS: Young male adults with obesity exhibit poorer inhibitory control in both food and non-food domains, specifically in slower reaction time and reduced accuracy, featuring difficulties in neural resource recruitment during the inhibitory control process. Additionally, the P3 component could serve as sensitive indicators to reveal the neural mechanisms of inhibitory control deficits ... [Read more...](#)

11. Association between low vitamin D levels and cognitive impairment in Chilean older adults: findings of the National Health Survey 2016-2017

30-04-2024 - National Library of Medicine

CONCLUSION: A severe deficit of vitamin D was associated with higher odds of cognitive impairment in Chilean older adults independent of major confounding factors. Future studies are needed to provide causal evidence between vitamin D and the suspicion of cognitive impairment. [Read more...](#)

12. "WOOP is my safe haven": A qualitative feasibility and acceptability study of the Wish Outcome Obstacle Plan (WOOP) intervention for spouses of people living with early-stage dementia

30-04-2024 - National Library of Medicine

CONCLUSIONS: WOOP was described as a practical, feasible, and desirable intervention for spouses at the early stages of their partner's dementia. Participants made WOOP easier to incorporate in their everyday lives by adapting the design into a mental exercise that they used as needed. Suggestions from participants specified how to make the everyday use of WOOP more feasible, sustainable, ... [Read more...](#)

13. When prion disease Isn't suspected: prion disease as the cause of terminal decline in chronic mixed dementia

30-04-2024 - National Library of Medicine

Alzheimer's Disease (AD) is the most common cause of dementia, although multiple pathologies are found in nearly half of the cases with clinically diagnosed AD. Prion diseases, such as Creutzfeldt-Jakob disease (CJD), are rare causes of dementia and typically manifest as a rapidly progressive dementia, where symptom onset to dementia most often occurs over the course of months. [Read more...](#)

14. Fracture Risk Among Stroke Survivors According to Poststroke Disability Status and Stroke Type

30-04-2024 - National Library of Medicine

CONCLUSIONS: Our findings showed increased subsequent fracture risk among stroke survivors, particularly those with poststroke disability and for hip fracture. Bone health assessment and treatment should be emphasized as an essential part of stroke management. [Read more...](#)

15. Illness perceptions, cognitive and behavioural responses to chronic breathlessness in individuals living with advanced respiratory disease: an observational study

30-04-2024 - National Library of Medicine

CONCLUSION: Interventions that directly target illness perceptions, cognitive and behavioural responses to chronic breathlessness may improve symptom burden, self-efficacy and health-related quality of life. [Read more...](#)

16. Effectiveness of multi-modal home-based videoconference interventions on sleep in older adults: study protocol for a randomized controlled trial

30-04-2024 - National Library of Medicine

Aging is characterized by substantial changes in sleep architecture that negatively impact fitness, quality of life, mood, and cognitive functioning. Older adults often fail to reach the recommended level of physical activity to prevent the age-related decline in sleep function, partly because of geographical barriers. Implementing home-based interventions could surmount these obstacles, ... [Read more...](#)

17. Increase in blood pressure precedes distress behavior in nursing home residents with dementia

30-04-2024 - National Library of Medicine

CONCLUSIONS: NH residents with dementia have higher BP when they experience DBD, and BP rises 7 days before the DBD incident. Clinicians should be aware of these findings when deciding intensity of BP treatment. [Read more...](#)

18. Clinical Practice Guideline: Age-Related Hearing Loss

30-04-2024 - National Library of Medicine

OBJECTIVE: Age-related hearing loss (ARHL) is a prevalent but often underdiagnosed and undertreated condition among individuals aged 50 and above. It is associated with various sociodemographic factors and health risks including dementia, depression, cardiovascular

disease, and falls. While the causes of ARHL and its downstream effects are well defined, there is a lack of priority placed by ... [Read more...](#)

19. Shared and distinct effect mediators in exposure-based and traditional cognitive behavior therapy for fibromyalgia: Secondary analysis of a randomized controlled trial

30-04-2024 - National Library of Medicine

Fibromyalgia is a chronic pain condition associated with substantial suffering and societal costs. Traditional cognitive behavior therapy (T-CBT) is the most evaluated psychological treatment, but exposure therapy (Exp-CBT) has shown promise with a pronounced focus on the reduction of pain-related avoidance behaviors. In a recent randomized controlled trial (N = 274), ... [Read more...](#)

20. Effect of Pediatric Rehabilitation on Children With Viral Encephalitis: A Case Report

30-04-2024 - National Library of Medicine

Viral encephalitis poses a significant threat to public health, particularly affecting children and the elderly. We present a case of a 1.5-year-old child with viral encephalitis, characterized by sudden convulsions following a bout of cold and fever. Comprehensive physiotherapy rehabilitation was initiated, focusing on improving mobility, strength, and functional abilities. [Read more...](#)

21. Comparative anatomy of the caudate nucleus in canids and felids: Associations with brain size, curvature, cross-sectional properties, and behavioral ecology

30-04-2024 - National Library of Medicine

The evolutionary history of canids and felids is marked by a deep time separation that has uniquely shaped their behavior and phenotype toward refined predatory abilities. The caudate nucleus is a subcortical brain structure associated with both motor control and cognitive, emotional, and executive functions. We used a combination of three-dimensional imaging, allometric scaling, ... [Read more...](#)

22. Lessons learned from the failure of solanezumab as a prospective treatment strategy for Alzheimer's disease

30-04-2024 - National Library of Medicine

INTRODUCTION: In the last decade, the efforts conducted for discovering Alzheimer's Disease (AD) treatments targeting the best-known pathogenic factors [amyloid- β ($A\beta$), tau protein, and neuroinflammation] were mostly unsuccessful. Given that a systemic failure of $A\beta$ clearance was supposed to primarily contribute to AD development and progression, disease-modifying therapies with anti- $A\beta$... [Read more...](#)

23. Explainable machine learning for predicting conversion to neurological disease: Results from 52,939 medical records

30-04-2024 - National Library of Medicine

CONCLUSIONS: The results demonstrate that electronic medical records contain latent information that can be used for risk stratification for neurological disorders. In particular, patient-reported outcomes, sleep assessments, falls data, additional disease diagnoses, and longitudinal changes in patient health, such as weight change, are important predictors. [Read more...](#)

24. Role of serum neuron-specific enolase levels in the early diagnosis and prognosis of sepsis-associated encephalopathy: a systematic review and meta-analysis

30-04-2024 - National Library of Medicine

CONCLUSION: Elevated serum NSE levels in patients with sepsis are associated with the early diagnosis of SAE and mortality therefore, serum NSE probably is a valid biomarker for the early diagnosis and prognosis of patients with SAE. [Read more...](#)

25. Cognitive Functions and Subjective Hearing in Cochlear Implant Users

30-04-2024 - National Library of Medicine

CONCLUSIONS: : The findings of the current study suggest that CI users had a higher likelihood of cognitive impairment in the executive function domain than in lower-level domains. BrianCheck online cognitive testing affords a convenient and effective tool to self-evaluate cognitive function in CI users. [Read more...](#)

26. From the gut to the brain: the long journey of phenolic compounds with neurocognitive effects

30-04-2024 - National Library of Medicine

The human gut microbiota is a complex community of micro-organisms that play a crucial role in maintaining overall health. Recent research has shown that gut microbes also have a profound impact on brain function and cognition, leading to the concept of the gut-brain axis. One way in which the gut microbiota can influence the brain is through the bioconversion of polyphenols to other ... [Read more...](#)

27. Experimental laboratory models as tools for understanding modifiable dementia risk

30-04-2024 - National Library of Medicine

Experimental laboratory research has an important role to play in dementia prevention. Mechanisms underlying modifiable risk factors for dementia are promising targets for dementia prevention but are difficult to investigate in human populations due to technological constraints and confounds. Therefore, controlled laboratory experiments in models such as transgenic rodents, ... [Read more...](#)

28. Virtual reality-based dementia educational programmes for formal and informal caregivers of people with dementia: A scoping review

30-04-2024 - National Library of Medicine

CONCLUSIONS: The qualitative and quantitative studies of moderate to good quality included in this study support the idea that virtual reality-based dementia educational programmes may be a safe and effective way and have potential benefits for improving knowledge, perceptions, attitudes and nursing competence. [Read more...](#)

29. HIV associated neurocognitive disorder screening and diagnosis pathways in Australia: a scoping review and international implications

30-04-2024 - National Library of Medicine

Symptomatic HIV-associated neurocognitive disorder (HAND) is a complication of HIV (cognitive impairment, difficulties with everyday functioning). If detected early, interventions assist with optimizing care, avoiding rapid decline and enhancing coping. There remains inconsistency surrounding screening/diagnosis information within Australian healthcare professionals and community settings. [Read more...](#)

30. Anxiety-, and depression-like behavior following short-term finasteride administration is associated with impaired synaptic plasticity and cognitive behavior in male rats

30-04-2024 - National Library of Medicine

Finasteride, a 5 α -Reductase inhibitor, is used to treat male pattern baldness and benign prostatic hyperplasia. Several clinical studies show that chronic finasteride treatment induces persistent depression, suicidal thoughts and cognitive impairment and these symptoms are persistent even after its withdrawal. Previous results from our lab showed that repeated administration of finasteride ... [Read more...](#)

31. Early-life immune activation is a vulnerability factor for adult epileptogenesis in neurofibromatosis type 1 in male mice

30-04-2024 - National Library of Medicine

INTRODUCTION: Patients with Neurofibromatosis type 1 (NF1), the most common neurocutaneous disorder, can develop several neurological manifestations that include cognitive impairments and epilepsy over their lifetime. It is unclear why certain patients with NF1 develop these conditions while others do not. Early-life immune activation promotes later-life seizure susceptibility, ... [Read more...](#)

32. Clinical Efficacy of Sun's Abdominal Acupuncture Combined with CBTI in Treating Chronic Insomnia with Anxiety

30-04-2024 - National Library of Medicine

CONCLUSIONS: Sun's abdominal acupuncture combined with CBTI demonstrates superior clinical efficacy in the management of chronic insomnia with anxiety. This combined approach not only reduces insomnia severity and improves sleep quality but also enhances cognitive function and reduces anxiety symptoms. Overall, the efficacy of combined therapy surpasses that of CBTI alone, ... [Read more...](#)

33. Proteomic Insights into Biology of Bipolar Disorder: Implications for Health Complexity and Mortality

30-04-2024 - National Library of Medicine

CONCLUSION: These findings may represent systemic alterations that occur with the progression of the illness and a possible link between BD and medical comorbidities. Such comprehensive understanding provides valuable insights for targeted interventions, addressing mental and physical health aspects in subjects with BD. Despite these promising findings, further research is warranted, ... [Read more...](#)

34. Long-term adaptation of prefrontal circuits in a mouse model of NMDAR hypofunction

30-04-2024 - National Library of Medicine

Pharmacological approaches to induce N-methyl-D-aspartate receptor (NMDAR) hypofunction have been intensively used to understand the aetiology and pathophysiology of schizophrenia. Yet, the precise cellular and molecular mechanisms that relate to brain network dysfunction remain largely unknown. Here, we used a set of complementary approaches to assess the functional network abnormalities ... [Read more...](#)

35. Dorsal dentate gyrus mediated enriched environment-induced anxiolytic and antidepressant effects in cortical infarcted mice

30-04-2024 - National Library of Medicine

Anxiety and depression are the most common mental health disorders worldwide, each affecting around 30% stroke survivors. These complications not only affect the functional recovery and quality of life in stroke patients, but also are distressing for caregivers. However, effective treatments are still lacking. Enriched environment (EE), characterized with novel and multi-dimensional ... [Read more...](#)

36. Comparison between morphometry and radiomics: detecting normal brain aging based on grey matter

30-04-2024 - National Library of Medicine

CONCLUSION: The radiomics model achieved better performance than the VBM-SBM model. Radiomics provides a good option for researchers who prioritize performance and generalization,

whereas VBM-SBM is more suitable for those who emphasize interpretability and clinical practice.
[Read more...](#)

37. Effect of Low Protein Diet on Bone Structure of Young Wistar Mice

30-04-2024 - National Library of Medicine

Background and Objective: Malnutrition and stunting are major unresolved problems in Indonesia. Protein deficiency can cause stunted growth, as well as make physical and cognitive abilities cannot reach their maximum potential. During childhood the need for protein must be fulfilled so that the peak of bone formation during adolescence can be perfect. In malnourished children, ...

[Read more...](#)

38. Clinical and Mechanism Research Progress in Amelioration of Mild Cognitive Impairment via Meditation

30-04-2024 - National Library of Medicine

Mild cognitive impairment(MCI)has a high risk of progressing to dementia,with no recommended therapies.Recent studies have shown that meditation has huge potential to improve the cognitive function,with low cost and high safety,being suitable to be applied in the treatment of neurological and psychotic disorders.This paper reviews the application and prospects of meditation in treating MCI ... [Read more...](#)

39. Considerations for the assessment of blast exposure in service members and veterans

30-04-2024 - National Library of Medicine

INTRODUCTION: Blast exposure is an increasingly present occupational hazard for military service members, particularly in modern warfare scenarios. The study of blast exposure in humans is limited by the lack of a consensus definition for blast exposure and considerable variability in measurement. Research has clearly demonstrated a robust and reliable effect of blast exposure on brain ... [Read more...](#)

40. Cognitive functioning in adolescents with severe obesity undergoing bariatric surgery or intensive non-surgical treatment in Sweden (AMOS2): a multicentre, open-label, randomised controlled trial

30-04-2024 - National Library of Medicine

BACKGROUND: Severe obesity during childhood is associated with cognitive deficits. Studies in adults have suggested improvements in executive functioning and memory after bariatric surgery. Our aim was to explore changes in cognitive function in adolescents over two years after bariatric surgery or intensive non-surgical treatment. [Read more...](#)

41. Effects of movement training based on rhythmic auditory stimulation in cognitive impairment: a meta-analysis of randomized controlled clinical trial

30-04-2024 - National Library of Medicine

CONCLUSION: This study shows that RASMT can improve the general cognitive status, memory, attention and executive function of patients with cognitive impairment. The quality of evidence revealed that MMSE was low, attention and memory were moderate, and executive function was high. The RAMST program (type of exercise: play percussion instruments time of exercise: 30-60 min frequency of ... [Read more...](#)

42. Association between stressful life events and sleep quality in Chinese university students: Mediating and moderating roles of emotion regulation

30-04-2024 - National Library of Medicine

This study investigated whether emotion regulation mediates or modulates the relationship of SLEs with sleep quality and potential sex differences. A total of 1447 Chinese university students completed the Adolescent Self-Rating Life Events Checklist, the Pittsburgh Sleep Quality Index, and the Emotion Regulation Questionnaire. The results indicated that both cognitive reappraisal and ... [Read more...](#)

43. A study of cognitive impairment quantitative assessment method based on gait characteristics

30-04-2024 - National Library of Medicine

Alzheimer's disease (AD) is a common and serious form of elderly dementia, but early detection and treatment of mild cognitive impairment can help slow down the progression of dementia. Recent studies have shown that there is a relationship between overall cognitive function and motor function and gait abnormalities. We recruited 302 cases from the Rehabilitation Hospital Affiliated to ... [Read more...](#)

44. Chinese guidelines for the diagnosis and management of atrial fibrillation

30-04-2024 - National Library of Medicine

Atrial fibrillation (AF) is the most common sustained cardiac arrhythmia, significantly impacting patients' quality of life and increasing the risk of death, stroke, heart failure, and dementia. Over the past two decades, there have been significant breakthroughs in AF risk prediction and screening, stroke prevention, rhythm control, catheter ablation, and integrated management. [Read more...](#)

45. Herpes zoster vaccination and the risk of dementia: A systematic review and meta-analysis

30-04-2024 - National Library of Medicine

CONCLUSION: Herpes zoster vaccination is associated with a reduction of the risk of dementia. More epidemiological studies are needed to confirm the association. [Read more...](#)

46. Reducing dementia-related stigma and discrimination among community health workers in Brazil: protocol for a randomised controlled feasibility trial

30-04-2024 - National Library of Medicine

INTRODUCTION: Stigma and discrimination among healthcare workers can hinder diagnosis and the provision of appropriate care in dementia. This study is aimed at developing, delivering and evaluating the feasibility of a group antistigma intervention to improve knowledge, attitudes and behaviours in relation to people living with dementia among community health workers (CHWs). [Read more...](#)

47. Describing the development and implementation of a novel collaborative multidisciplinary approach to deliver foot health supports for individuals experiencing homelessness and its outcomes

30-04-2024 - National Library of Medicine

Basic foot care is a real need of people experiencing homelessness. To improve access to foot health for this group, three services structured to provide healthcare support for people experiencing homelessness collaborated in metropolitan Melbourne, Australia: an established nurse-led Homeless Persons Program (HPP), a specialty community health podiatry clinic servicing people experiencing ... [Read more...](#)

48. Individual and systemic variables associated with prolonged grief and other emotional distress in bereaved children

30-04-2024 - National Library of Medicine

Most children confronted with the death of a loved one do not experience persisting psychological problems. However, for some, acute grief reactions develop into prolonged grief disorder (PGD) and other mental health problems. Research findings suggest that bereavement outcomes in children are associated with negative cognitions and avoidant coping and with different parenting behaviours. [Read more...](#)

49. Biomarkers - Part 1

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CONCLUSION: While not as robust as CSF ratios, plasma A β (42)/A β (40) and A β (42)/tau ratios can isolate cognitively healthy participants with lower risk from participants with a higher risk of cognitive decline. Thus, plasma represents a less invasive medium for the biomarker classification of aging participants. [Read more...](#)

50. Efficacy and safety of 3-month dual antiplatelet therapy in patients after mechanical thrombectomy for acute ischemic stroke: a retrospective study

30-04-2024 - National Library of Medicine

CONCLUSION: For AIS patients undergoing mechanical thrombectomy, compared to 1-month DAPT, 3-month DAPT can reduce the recurrence rate of IS during a 6-month follow-up period, without increasing the mortality and risk of cerebral hemorrhage. [Read more...](#)

51. Impact of serum leptin and adiponectin levels on brain infarcts in patients with mild cognitive impairment and Alzheimer's disease: a longitudinal analysis

30-04-2024 - National Library of Medicine

INTRODUCTION: The adipokines leptin and adiponectin have been associated with atherosclerosis and the risk of cerebral infarcts. Pre-clinical studies, however, suggest a protective role against ischemic brain damage. In this study we analyzed the relationship between serum leptin and adiponectin levels and the onset or progression of brain infarcts in subjects with mild cognitive impairment ... [Read more...](#)

52. Inhibiting Hippo pathway kinases releases WWC1 to promote AMPAR-dependent synaptic plasticity and long-term memory in mice

30-04-2024 - National Library of Medicine

The localization, number, and function of postsynaptic AMPA-type glutamate receptors (AMPA-Rs) are crucial for synaptic plasticity, a cellular correlate for learning and memory. The Hippo pathway member WWC1 is an important component of AMPAR-containing protein complexes. However, the availability of WWC1 is constrained by its interaction with the Hippo pathway kinases LATS1 and LATS2 (LATS1/2). [Read more...](#)

53. Shared and Specific Neural Correlates of Attention Deficit Hyperactivity Disorder and Autism Spectrum Disorder: A Meta-Analysis of 243 Task-Based Functional MRI Studies

30-04-2024 - National Library of Medicine

CONCLUSIONS: Although ASD and ADHD showed both shared and disorder-specific standardized neural activations, disorder-specific activations were more prominent than shared ones. Functional brain differences between ADHD and ASD are more likely to reflect diagnosis-related pathophysiology than bias from the selection of specific neuropsychological tasks. [Read more...](#)

54. Evaluation of a Digital Dementia Registry's IT Architecture After a Three-Year Period in Practice: digiDEM Bayern

29-04-2024 - National Library of Medicine

CONCLUSION: Integrating the used systems is therefore recommended for registry studies in other medical areas. [Read more...](#)

55. Diabetes and Coronary Artery Disease as Risk Factors for Dementia

29-04-2024 - National Library of Medicine

CONCLUSION: The combination of diabetes and CAD is associated with increased rate of dementia, in particular vascular dementia, suggesting that the diabetes-related risk of dementia is partly mediated through concomitant atherosclerotic cardiovascular disease. This underscores the importance of atherosclerotic cardiovascular disease prevention in diabetes patients to reduce cognitive decline. [Read more...](#)

56. Integrating intra- and interpersonal perspectives on chronic low back pain: the role of emotion regulation and attachment insecurity

29-04-2024 - National Library of Medicine

CONCLUSION: Our study shows that anxious attachment may be an interpersonal risk factor related to CLBP, above and beyond intrapersonal ERs, as anxious attachment was associated with higher levels of pain interference. Furthermore, emotional expression was associated with increased CLBP severity and interference, particularly among individuals at low and medium levels of avoidant attachment. [Read more...](#)

57. Neurocognitive function in procedures correcting severe aortic valve stenosis: patterns and determinants

29-04-2024 - National Library of Medicine

CONCLUSION: The correction of severe AS leads to an improvement in neurocognitive function after 2-3 months. This improvement does not differentiate between SAVR and TAVI after matching for pre-procedural factors. The only modifiable factor associated with pre-procedural neurocognitive function is anemia, and anemia correction with red blood cell transfusions is associated with a worsening of ... [Read more...](#)

58. Magnetic Seizure Therapy vs Modified Electroconvulsive Therapy in Patients With Bipolar Mania: A Randomized Clinical Trial

29-04-2024 - National Library of Medicine

CONCLUSIONS AND RELEVANCE: These findings suggest that MST is associated with a high response rate and fewer cognitive impairments in bipolar mania and that it might be an alternative therapy for the treatment of bipolar mania. [Read more...](#)

59. Rational timepoint of medical rehabilitation in chronic tinnitus : Applying for rehabilitation options for a chronic course

29-04-2024 - National Library of Medicine

Chronic tinnitus is a common symptom of the auditory system. A causal therapy does not yet exist. The recommended treatment includes expert counseling, psychotherapeutic interventions, particularly cognitive behavioral therapy, and measures to improve hearing. The treatment modules are multimodal and can be combined individually. Depending on the severity of the different disease dimensions ... [Read more...](#)

60. Clearing the Fog: A Review of Antipsychotics for Parkinson's-Related Hallucinations: A Focus on Pimavanserin, Quetiapine and Clozapine

29-04-2024 - National Library of Medicine

Parkinson's disease is a progressive neurodegenerative disorder characterized by motor and non-motor symptoms, including hallucinations. The use of antipsychotic medications is a common strategy to manage hallucinations associated with Parkinson's disease psychosis (PDP).

However, careful consideration is necessary when selecting the most appropriate drug due to the potential risks associated ... [Read more...](#)

61. Cognition, affect, and behavioural changes among university students after 10 new guidelines were issued in China: An exploratory study

29-04-2024 - National Library of Medicine

CONCLUSIONS: The prevention behaviour of university students has slackened. Evidence-based tailored policy development is indicated. This study suggested that schools and the government can improve the effectiveness of epidemic prevention among university students by adjusting the strategy of epidemic prevention policy formulation, broadening the channels of epidemic prevention information ... [Read more...](#)

62. When remembering less is more: Unfiltered items are associated with reduced memory fidelity in visual short-term memory

29-04-2024 - National Library of Medicine

Visual short-term memory (VSTM), the ability to store information no longer visible, is essential for human behavior. VSTM limits vary across the population and are correlated with overall cognitive ability. It has been proposed that low-memory individuals are unable to select only relevant items for storage and that these limitations are greatest when memory demands are high. [Read more...](#)

63. Human immunodeficiency virus-associated dementia complex with positive 14-3-3 protein in cerebrospinal fluid: A case report

29-04-2024 - National Library of Medicine

CONCLUSION: In the diagnostic process of rapidly progressive dementia, it is crucial to rule out as many potential causes as possible and to consider an autopsy to diminish diagnostic uncertainty. The 14-3-3 protein should not be regarded as the definitive marker for CJD. Comprehensive laboratory screening for infectious diseases is essential to enhance diagnostic precision, ... [Read more...](#)

64. Immersive virtual reality in the promotion of health and well-being for people in residential aged care without cognitive impairment: A scoping review

29-04-2024 - National Library of Medicine

CONCLUSION: Immersive VR has potential as a tool to promote the health and well-being of people without cognitive impairment living in RAC. Small sample sizes, variations in study design, and selection bias mean that generalisability of the results is limited. Further research is recommended to inform the design and implementation of immersive VR programs tailored specifically for this population. [Read more...](#)

65. The Effect of Anti-fatigue Decoction on the Behaviors and Serological Indicators in a Central Fatigue Rat Model

29-04-2024 - National Library of Medicine

This study aimed to assess the effects of Anti-fatigue Decoction (AFD) against central fatigue by observing the behaviors and serological indicators of rats modeled by the modified multiple platform method (MMPM) after drug intervention. Grip strength measurements were used to evaluate the muscle strength of rats. The open field test was utilized to assess anxiety-like behavior, ... [Read more...](#)

66. Navigating the outcome maze: a scoping review of outcomes and instruments in clinical trials in genetic neurodevelopmental disorders and intellectual disability

29-04-2024 - National Library of Medicine

CONCLUSION: This scoping review of current practice reveals a myriad of outcomes and outcome measurement instruments for clinical trials in GNDs and ID. This complicates generalization, evidence synthesis, and evaluation. It underlines the need for consensus on suitability, validity, and relevancy of instruments, ultimately resulting in a core outcome set. A series of steps is proposed to ... [Read more...](#)

67. Associations of vitamin D receptor polymorphisms with risk of Alzheimer's disease, Parkinson's disease, and mild cognitive impairment: a systematic review and meta-analysis

29-04-2024 - National Library of Medicine

Vitamin D is a lipid soluble steroid hormone, which plays a critical role in the calcium homeostasis, neuronal development, cellular differentiation, and growth by binding to vitamin D receptor (VDR). Associations between VDR gene polymorphism and Alzheimer's disease (AD), Parkinson's disease (PD), and mild cognitive impairment (MCI) risk has been investigated extensively, ... [Read more...](#)

68. Misdiagnosis of Acute Appendicitis Cases in the Emergency Room

29-04-2024 - National Library of Medicine

Acute appendicitis (AA) is one of the most frequent surgical emergencies, especially in pediatric populations, with its misdiagnosis in emergency settings presenting significant health risks. This misdiagnosis leads to various complications, such as delayed treatment or unnecessary surgeries. Factors such as age, gender, and comorbidities contribute to diagnostic errors, ... [Read more...](#)

69. Eicosapentaenoic acid activates the P62/KEAP1/NRF2 pathway for the prevention of diabetes-associated cognitive dysfunction

29-04-2024 - National Library of Medicine

Diabetes-associated cognitive dysfunction (DCD) is a severe complication of diabetes mellitus (DM), threatening the life quality of the diabetic population. However, there is still a lack of effective approaches for its intervention. Eicosapentaenoic acid (EPA) is an omega-3 polyunsaturated fatty acid that was not previously investigated for its effect on DCD. [Read more...](#)

70. Can neurocognition, brain neurotrophic factor, triglyceride, and total cholesterol predict suicidal ideation in first-episode Han Chinese patients with schizophrenia?

29-04-2024 - National Library of Medicine

CONCLUSION: Serum BDNF level, PANSS score, and MCCB score can be used as auxiliary predictors of suicidal ideation in schizophrenic patients. Combining these three indicators can effectively predict suicidal ideation in schizophrenic patients. [Read more...](#)

71. Physical Activity Levels and Sedentary Behavior of People Living With Mild Cognitive Impairment: A Cross-Sectional Study Using Thigh-Worn Accelerometers

29-04-2024 - National Library of Medicine

Community-dwelling people with Mild Cognitive Impairment self-reporting not to be meeting recommended physical activity levels participated in this study to (a) determine compliance of wearing (thigh-worn) accelerometers, (b) describe physical activity levels and sedentary behavior, and (c) determine the validity of the Physical Activity Scale for the Elderly (PASE) compared with activPAL ... [Read more...](#)

72. Causal Relationship between Sex Hormones and Risk of Developing Common Neurodegenerative Diseases: A Mendelian Randomization Study

29-04-2024 - National Library of Medicine

CONCLUSIONS: Elevated BT is associated with a reduced risk of developing ALS. Further research is needed to investigate the underlying mechanisms of action for this correlation and how it can be used as a potential target of action to reduce the risk of developing ALS. [Read more...](#)

73. Inherent Bias in Electronic Health Records: A Scoping Review of Sources of Bias

29-04-2024 - National Library of Medicine

CONCLUSIONS: 1.4Machine learning and data-driven solutions can potentially transform healthcare delivery, but not without limitations. The core inputs in the systems (data and human factors) currently contain several sources of bias that are poorly documented and analyzed for remedies. The current evidence heavily focuses on data-related biases, while other sources are less often analyzed or ... [Read more...](#)

74. Exploring inertial sensor-based balance biomarkers for early detection of mild cognitive impairment

29-04-2024 - National Library of Medicine

Dementia is characterized by a progressive loss of cognitive abilities, and diagnosing its early stages Mild Cognitive Impairment (MCI), is difficult since it is a transitory state that is different from total cognitive collapse. Recent clinical research studies have identified that balance impairments can be a significant indicator for predicting dementia in older adults. [Read more...](#)

75. Glycemic Control, Cognitive Aging, and Impairment Among Diverse Hispanics/Latinos: Study of Latinos-Investigation of Neurocognitive Aging (Hispanic Community Health Study/Study of Latinos)

29-04-2024 - National Library of Medicine

CONCLUSIONS: Elevated HbA1c levels were associated with 7-year executive cognitive decline and increased MCI risk among diverse middle-aged and older Hispanics/Latinos. Our findings indicate that poor glycemic control in midlife may pose significant risks for cognitive decline and MCI later in life among Hispanics/Latinos of diverse heritages. [Read more...](#)

76. Associations between challenging parenting behavior and creative tendencies of children: the chain mediating roles of positive emotion and creative self-efficacy

29-04-2024 - National Library of Medicine

CONCLUSION: The favorable impacts of challenging parenting behaviors on children's creative tendencies, with the mediating effects of children's positive emotions and creative self-efficacy, may help Chinese parents better grasp the mechanisms underlying this association. [Read more...](#)

77. Involvement of transposable elements in Alzheimer's disease pathogenesis

29-04-2024 - National Library of Medicine

Alzheimer's disease affects an average of 5 % of the population with a significant increase in prevalence with age, suggesting that the same mechanisms that underlie aging may influence this pathology. Investigation of these mechanisms is promising for effective methods of treatment and prevention of the disease. Possible participants in these mechanisms are transposons, ... [Read more...](#)

78. Structure of resilience: A Machiavellian contribution or 'paddle your own canoe'

29-04-2024 - National Library of Medicine

According to biobehavioral synchronicity model, empathy-a fundamental requirement for reciprocal and prosocial behavior-is at the core of rebound from stress, an essential feature of resilience. However, there are also reports on antagonistic traits-characterized by empathic

deficit-bolstering immunity to stress. In the literature there is also inconclusive evidence regarding gender-related ... [Read more...](#)

79. Interaction of high-fat diet and brain trauma alters adipose tissue macrophages and brain microglia associated with exacerbated cognitive dysfunction

29-04-2024 - National Library of Medicine

Obesity increases the morbidity and mortality of traumatic brain injury (TBI). Detailed analyses of transcriptomic changes in the brain and adipose tissue were performed to elucidate the interactive effects between high-fat diet-induced obesity (DIO) and TBI. Adult male mice were fed a high-fat diet (HFD) for 12 weeks prior to experimental TBI and continuing after injury. [Read more...](#)

80. Thalamic Alterations in Motor Neuron Diseases: A Systematic Review of MRI Findings

29-04-2024 - National Library of Medicine

CONCLUSIONS: Thalamic alterations provide valuable insights into the pathophysiology and progression of MNDs. Multimodal MRI techniques are potent tools for detecting dynamic thalamic changes, indicating structural integrity, connectivity disruption, and metabolic activity. [Read more...](#)

81. Postoperative Delirium and the Older Adult: Untangling the Confusion

29-04-2024 - National Library of Medicine

Postoperative delirium is one of the most prevalent postoperative complications, affecting mostly older adults. Its incidence is expected to rise because of surgical advances, shifting demographics, and increased life expectancy. Although an acute alteration in brain function, postoperative delirium is associated with adverse outcomes, including progressive cognitive decline and dementia, ... [Read more...](#)

82. Clinical Practice Guideline: Age-Related Hearing Loss Executive Summary

29-04-2024 - National Library of Medicine

OBJECTIVE: Age-related hearing loss (ARHL) is a prevalent but often underdiagnosed and undertreated condition among individuals aged 50 and above. It is associated with various sociodemographic factors and health risks including dementia, depression, cardiovascular disease, and falls. While the causes of ARHL and its downstream effects are well defined, there is a lack of priority placed by ... [Read more...](#)

83. Investigating silent pauses in connected speech: integrating linguistic, neuropsychological, and neuroanatomical perspectives across narrative tasks in post-stroke aphasia

29-04-2024 - National Library of Medicine

INTRODUCTION: Silent pauses are regarded as integral components of the temporal organization of speech. However, it has also been hypothesized that they serve as markers for internal cognitive processes, including word access, monitoring, planning, and memory functions. Although existing evidence across various pathological populations underscores the importance of investigating silent ... [Read more...](#)

84. How to establish an endoscopic bariatric practice

29-04-2024 - National Library of Medicine

Obesity is a chronic, progressive, and relapsing disease of excess adiposity that contributes to more than two hundred medical conditions and is projected to affect more than half the adult population of the United States by the year 2030. Given the limited penetrance of traditional bariatric surgery, as well as the cost and adherence barriers to anti-obesity medications, ... [Read more...](#)

85. Experiences of dental behaviour support techniques: A qualitative systematic review

29-04-2024 - National Library of Medicine

CONCLUSION: Qualitative research has been under-utilized in research on DBS techniques. Care experiences of most DBS techniques outside of paediatric DGA are poorly understood. Building trust with patients and enabling autonomy appear to support positive patient-reported experiences of care. [Read more...](#)

86. Diabetes and vascular mild cognitive impairment among Chinese 50 years: A cross-sectional study with 2020 participants

29-04-2024 - National Library of Medicine

CONCLUSION: In our study, we found that diabetes had a positive correlation with VaMCI, and high education had a negative correlation with VaMCI. Therefore, early identification and timely intervention of diabetes may reduce the risk of VaMCI and achieve early prevention of VaMCI. [Read more...](#)

87. Enhancing Dementia Risk Mitigation: Standardized Digital Monitoring in Clinical Trials and Platform Design for At-Risk Elderly Individuals

29-04-2024 - National Library of Medicine

CONCLUSION: The interoperability framework was designed in a scalable way and will be regularly updated for future needs. [Read more...](#)

88. Association of genetically predicted 486 blood metabolites on the risk of Alzheimer's disease: a Mendelian randomization study

29-04-2024 - National Library of Medicine

CONCLUSION: By integrating genomics with metabonomics, this study furnishes evidence substantiating the genetic association of epiandrosterone sulfate and X-12680 with AD. These findings hold significance for the screening, prevention, and treatment strategies for AD. [Read more...](#)

89. Neurological Consequences of Cardiac Arrhythmias: Relationship Between Stroke, Cognitive Decline, and Heart Rhythm Disorders

29-04-2024 - National Library of Medicine

Cardiac arrhythmias are one of the most common disorders with high morbidity and mortality. The effect of cardiac arrhythmias on the brain is very pronounced due to the high sensitivity of the brain to oxygen and blood supply. This mortality is preventable by early diagnosis and treatment which improves the patient's quality of life. Intervening at the right time, ... [Read more...](#)

90. Educational Nutritional Intervention Program for Adolescents Based on Social Cognitive Theory: Pilot Study of a Cluster Randomized Controlled Trial

29-04-2024 - National Library of Medicine

The eating habits of adolescents are often inadequate, with high consumption of unhealthy foods and low consumption of healthy foods. It is necessary to design and implement effective interventions to improve eating habits at this age and evaluate their feasibility, acceptability, and effectiveness. The use of theories for behavior change in health interventions favors the adoption of healthy ... [Read more...](#)

91. Cognitive, emotional, and social factors promoting psychosocial adaptation: a study of latent profiles in people living in socially vulnerable contexts

29-04-2024 - National Library of Medicine

INTRODUCTION: Social adaptation is a multifaceted process that encompasses cognitive, social, and affective factors. Previous research often focused on isolated variables, overlooking their interactions, especially in challenging environments. Our study addresses this by investigating

how cognitive (working memory, verbal intelligence, self-regulation), social (affective empathy, ...
[Read more...](#)

92. Exploring the gut microbiome-Postoperative Cognitive Dysfunction connection: Mechanisms, clinical implications, and future directions

29-04-2024 - National Library of Medicine

Postoperative Cognitive Dysfunction (POCD) is a common yet poorly understood complication of surgery that can lead to long-term cognitive decline. The gut-brain axis, a bidirectional communication system between the central nervous system and the gut microbiota, plays a significant role in maintaining cognitive health. The potential for anesthetic agents and perioperative medications to ... [Read more...](#)

93. Neuroendoscopic access to the third ventricle in patients with narrow foramen of monro without stenosis/obstruction: role of foraminoplasty

29-04-2024 - National Library of Medicine

CONCLUSION: Foraminoplasty in patients with a narrow FM without signs of stenosis/obstruction is a useful technique to reduce the risk of complications during the passage of the endoscopy system through this structure, enabling the safe performance of neuroendoscopic procedures.
[Read more...](#)

94. Cognitive function is associated with performance in time up and go test and with leptin blood levels in community-dwelling older women

29-04-2024 - National Library of Medicine

Considering the challenge that cognitive dysfunction and dementia represent to health is imperative to prioritize early diagnosis strategies and explore the pathophysiological mechanisms. There is no consensus on specific markers and physical tests that indicate cognitive decline in older. The objective of this study was to evaluate a panel of inflammatory biomarkers and physical function and ... [Read more...](#)

95. Adaptive responding to stimulus-outcome associations requires noradrenergic transmission in the medial prefrontal cortex

29-04-2024 - National Library of Medicine

A dynamic environment, such as the one we inhabit, requires organisms to continuously update their knowledge of the setting. While the prefrontal cortex is recognized for its pivotal role in regulating such adaptive behavior, the specific contributions of each prefrontal area remain elusive. In the current work, we investigated the direct involvement of two major prefrontal subregions, ... [Read more...](#)

96. Treatment of type 2 diabetes mellitus in the elderly - Special considerations

29-04-2024 - National Library of Medicine

Type 2 diabetes is a frequent chronic disease. Given its strong positive association with older age, it is a significant public health issue in elderly populations. Furthermore, the aging of the population, driven by increasing life expectancy in high and middle-income countries leads to an increasing prevalence of diabetes. Although the same diagnostic criteria apply to the elderly and to ... [Read more...](#)

97. Impact of public health communication for prevention and personal resilience at the time of crisis. A pilot study with psychophysiological and self-report measures

29-04-2024 - National Library of Medicine

Health communication promotes public and individual health. Psychophysiological indices can unveil the unconscious emotional variables that influence audience's representations of these

communications. This study explored emotional and cognitive responses to health communications using implicit (psychophysiological) and explicit (self-report) measurements. Twelve communications (health ... [Read more...](#)

98. Qualitative findings from a randomized trial of mindfulness-based and cognitive-behavioral group therapy for opioid-treated chronic low back pain

29-04-2024 - National Library of Medicine

This article reports qualitative outcomes from a randomized controlled trial comparing eight weeks of cognitive-behavioral group therapy for chronic pain (CBT-CP) and mindfulness-based group therapy (MBT) in individuals with chronic low back pain (CLBP). Approximately 10 months post-treatment, 108 participants completed structured qualitative interviews to express how the study treatment ... [Read more...](#)

99. The interplay of psychosis and non-compliance with fatal outcome in an adult with MSUD

29-04-2024 - National Library of Medicine

Significant progress has been achieved in enhancing early outcomes for individuals with maple syrup urine disease (MSUD), a rare metabolic disorder that leads to the accumulation of branched-chain amino acids leucine, isoleucine, and valine, where leucine is known as the primary neurotoxic metabolite. Newborn screening is helpful in early diagnosis and implementation of dietary treatment, ... [Read more...](#)

100. Phenylephrine Alters Phase Synchronization between Cerebral Blood Velocity and Blood Pressure in Chronic Fatigue Syndrome with Orthostatic Intolerance

29-04-2024 - National Library of Medicine

Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) with orthostatic intolerance (OI) is characterized by neuro-cognitive deficits perhaps related to upright hypocapnia and loss of cerebral autoregulation (CA). We performed N-back neurocognition testing and calculated the phase synchronization index (PhSI) between Arterial Pressure (AP) and cerebral blood velocity (CB(V)) as a ... [Read more...](#)

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Living well with dementia

1. Influencing factors, gender differences and the decomposition of inequalities in cognitive function in Chinese older adults: a population-based cohort study

25-04-2024 - National Library of Medicine

CONCLUSIONS: Different factors have heterogeneous and gender-differenced effects on CFCOA and ICFCOA, while the formation and exacerbation of ICFCOA were allied to marital status and education. Considering the severe ageing and the increasing incidence of cognitive decline, there is an urgent need for the government and society to adopt a comprehensive approach to practically work for ... [Read more...](#)

2. Effects of Square Stepping Exercise on cognitive, physical, psychological, and group functioning in sedentary older adults: A center-based hybrid trial

25-04-2024 - National Library of Medicine

CONCLUSIONS: In this study, hybrid SSE was found to be effective in enhancing cognitive, physical, psychological, and group functioning in sedentary older adults. The findings of this study are crucial to provide older adults with a safer and efficient option to exercise. [Read more...](#)

3. The relationship between participation in leisure activities and incidence of falls in residential aged care

25-04-2024 - National Library of Medicine

CONCLUSIONS: Leisure participation is associated with a lower rate of falls, a key quality indicator by which RACFs are benchmarked and funded in Australia and many other countries. More recognition and attention are needed for the currently underfunded leisure activities in RACFs in future funding arrangement. [Read more...](#)

4. Effects of dual-task resistance exercise on cognition, mood, depression, functional fitness, and activities of daily living in older adults with cognitive impairment: a single-blinded, randomized controlled trial

24-04-2024 - National Library of Medicine

CONCLUSIONS: Dual-task resistance exercise is more effective than resistance exercise in improving cognitive function in older adults with cognitive impairment. Both dual-task resistance exercise and resistance exercise improves mood, depression, functional fitness, and ADL after the intervention. We propose using dual-task resistance exercises for cognitive and physical health management in ... [Read more...](#)

5. Barriers and motivators to undertaking physical activity in adults over 70-a systematic review of the quantitative literature

23-04-2024 - National Library of Medicine

BACKGROUND: Physical activity (PA) has multiple benefits for older adults (≥ 70 years old). Despite this many older adults do not undertake the World Health Organisation guideline recommended amount of PA. This systematic review examines barriers and motivators to PA in adults aged ≥ 70 years. [Read more...](#)

6. The impact of a hospital-based special care unit on behavioural and psychological symptoms in older people living with dementia

22-04-2024 - National Library of Medicine

CONCLUSION: Clinically significant reductions in BPSD and psychotropic administration were associated with SCU care relative to standard ward care. These results suggest more robust investigation of hospital SCUs, and dementia-enabling design are warranted. [Read more...](#)

7. Prevalence of sarcopenic obesity in the older non-hospitalized population: a systematic review and meta-analysis

22-04-2024 - National Library of Medicine

CONCLUSION: SO prevalence is high among non-hospitalized older adults, especially those with functional and cognitive impairments. Thus, SO is a potential problem for the aging population implementation of planned interventions in the community is needed to reduce the prevalence and adverse outcomes of SO. [Read more...](#)

8. Feasibility and acceptability of NIDUS-professional, a training and support intervention for homecare workers caring for clients living with dementia: a cluster-randomised feasibility trial

21-04-2024 - National Library of Medicine

CONCLUSION: A pragmatic trial is warranted we will consider using aggregated, agency-level client outcomes, including neuropsychiatric symptoms. [Read more...](#)

9. A Two-Phased Pilot Study Evaluating the Feasibility and Acceptability of the Cognitively Enriched Walking Program "Take a Walk with Your Brain" for Older Adults

18-04-2024 - National Library of Medicine

Given the aging population, finding solutions to retain optimal cognitive capacity is a research priority. The potential of physical activity to reduce the risk of cognitive decline and to enhance cognitive functioning is established. Combining physical with cognitive activity has been put forward as a potentially even more effective way to promote healthy cognitive aging. [Read more...](#)

10. Associations between frailty and mild cognitive impairment in older adults: Evidence from rural Chiang Mai Province

18-04-2024 - National Library of Medicine

Thailand entered an aged society phase in 2000, with mild cognitive impairment (MCI) and frailty becoming prevalent among the older adult population. However, no studies have yet examined these issues specifically within rural communities. This study aims to explore the relationship between frailty and MCI among older adults in rural Thailand. It was a cross-sectional study conducted between ... [Read more...](#)

11. Plasma metabolomic markers underlying skeletal muscle mitochondrial function relationships with cognition and motor function

14-04-2024 - National Library of Medicine

CONCLUSION: Our findings add evidence to the hypothesis that mitochondrial function is implicated in the pathogenesis of cognitive and physical decline with aging and suggest that targeting specific metabolites may prevent cognitive and mobility decline through their effects on mitochondria. Future omics studies are warranted to confirm these findings and explore mechanisms underlying ... [Read more...](#)

12. Determinants of hospital readmissions in older people with dementia: a narrative review

12-04-2024 - National Library of Medicine

CONCLUSION: Poorly defined roles and responsibilities of health and social care professionals and poor communication during care transitions, increase the risk of readmission in older people with dementia. These identified psychosocial determinants are likely to significantly contribute to readmissions. However, future research should focus on the understanding of the interaction between a ... [Read more...](#)

13. Identifying a group of factors predicting cognitive impairment among older adults

11-04-2024 - National Library of Medicine

CONCLUSION: The model based on selected risk factors may be used to identify high risk individuals with cognitive impairment. [Read more...](#)

14. Resistance training's impact on blood biomarkers and cognitive function in older adults with low and high risk of mild cognitive impairment: a randomized controlled trial

10-04-2024 - National Library of Medicine

CONCLUSION: Our study results suggest a different effect of RT on inhibitory control between older adults with low compared to high MCI risk. IGF-1 may play a role in the mechanism behind the cognitive benefit of RT and KYN may be a surrogate biomarker for neurodegeneration and cognitive decline. [Read more...](#)

15. Systematic Review of Longitudinal Evidence and Methodologies for Research on Neighborhood Characteristics and Brain Health

10-04-2024 - National Library of Medicine

Objective: Synthesize longitudinal research evaluating neighborhood environments and cognition to identify methodological approaches, findings, and gaps. **Methods:** Included studies evaluated associations between neighborhood and cognition longitudinally among adults >45 years (or

mean age of 65 years) living in developed nations. We extracted data on sample characteristics, exposures, outcomes, ... [Read more...](#)

16. Active involvement in scientific research of persons living with dementia and long-term care users: a systematic review of existing methods with a specific focus on good practices, facilitators and barriers of involvement

09-04-2024 - National Library of Medicine

CONCLUSIONS: Planning enough time for active involvement is important to ensure that researchers have time to build a trusting relationship and meet personal needs and preferences of PLWD, LTC users and carers. Researchers are advised not to presume the meaning of burden and to avoid a deficit perspective. A flexible or emergent design could aid involved persons' ownership of the research process. [Read more...](#)

17. Comparison of lifestyle, cognitive function, mental health, and quality of life between hospitalized older adults with COVID-19 and non-COVID-19 in South Korea: a cross-sectional study

02-04-2024 - National Library of Medicine

CONCLUSIONS: The study confirms that COVID-19 negatively affects memory, physical activity, diet, quality of life, depression, and insomnia in the older adults. Therefore, this study implicated that prevention and intervention strategies required improving the memory, lifestyle, and mental health of older adults with COVID-19. [Read more...](#)

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Mental health and ageing

1. Insights into designing educational materials for persons living with dementia: a focus group study

29-04-2024 - National Library of Medicine

CONCLUSION: PLWD-facing educational material should be addressed directly to PLWD, using plain, non-threatening and accessible language with clean, straightforward formatting. [Read more...](#)

2. The effect of retirement on physical and mental health in China: a nonparametric fuzzy regression discontinuity study

27-04-2024 - National Library of Medicine

CONCLUSIONS: Our results suggest that it is possible to delay the statutory retirement age in China as retirement has insignificant effects on physical and mental health. However, further research is needed to assess the long-term effect of retirement on health. [Read more...](#)

3. Does health literacy mediate the relationship between socioeconomic status and health related outcomes in the Belgian adult population?

27-04-2024 - National Library of Medicine

CONCLUSIONS: Although the influence of HL in the pathway is limited, our findings suggest that strategies for improving various health-related outcomes among low SES groups should include initiatives to enhance HL in these population groups. Further research is needed to confirm our results and to better explore the mediating effects of HL. [Read more...](#)

4. Missing link: a qualitative analysis of community-based organisations' contributions to partnered collaborative care to treat late-life depression

26-04-2024 - National Library of Medicine

CONCLUSIONS: CBOs, when partnered with clinics, enhanced both medical and social aspects of depression treatment for older adults. CBOs are well positioned to assist primary care clinics in treating the complex health needs of older adults by providing new and strengthening existing aspects of partnered depression care while building patient trust among culturally diverse populations. [Read more...](#)

5. Risk and protective factors for self-harm and suicide behaviours among serving and ex-serving personnel of the UK Armed Forces, Canadian Armed Forces, Australian Defence Force and New Zealand Defence Force: A systematic review

26-04-2024 - National Library of Medicine

CONCLUSION: Adequate care and support are a necessity for the military community. Prevention and intervention strategies for self-harm and suicide behaviours may be introduced early and may promote social networks as a key source of support. This review found a paucity of peer-reviewed research within some populations. More peer-reviewed research is needed, particularly among these ... [Read more...](#)

6. The feasibility of integrating a home telehealth model for older persons living with hemodialysis

26-04-2024 - National Library of Medicine

CONCLUSIONS: An integrated home telehealth model implemented by a hemodialysis nurse is a feasible holistic care approach for OPLWH. However, the absence of statistical significance may partly be associated with the clinical characteristics of frailty and risk factors such as increased age, hypertension, diabetes, heart disease, longer dialysis time, and inadequacy of Kt/V. [Read more...](#)

7. Uncovering the extent of dementia prevalence in Iran: a comprehensive systematic review and meta-analysis

25-04-2024 - National Library of Medicine

CONCLUSION: This is the first systematic review and meta-analysis of the prevalence of dementia's disease up to 2023 in Iran. The estimated overall prevalence of dementia is lower than the reported prevalence in European countries and similar to other Asian countries. [Read more...](#)

8. The association of neighborhood socioeconomic status with executive function and processing speed in cognitively normal Mexican Americans elders from the Health and Aging Brains Study - Health Disparities cohort

25-04-2024 - National Library of Medicine

CONCLUSION: Our study revealed that living in an area of higher deprivation was associated with lower cognitive function in MA but not in NHW, which is important to consider in future interventions to slow cognitive decline. [Read more...](#)

9. Polypharmacy and associated factors in South Korean elderly patients with dementia: An analysis using National Health Insurance claims data

25-04-2024 - National Library of Medicine

CONCLUSION: This study reports the latest evidence on the status and risk factors of polypharmacy in elderly patients with dementia. We proposed that careful monitoring and management are required for patients at high risk for polypharmacy. [Read more...](#)

10. A simple scoring algorithm based on intrinsic capacity for functional ability in community-dwelling older adults in Taiwan

25-04-2024 - National Library of Medicine

CONCLUSION: Our 7-domain IC screening tool proves to be sensitive and practical for early identification of functional disability and frailty among community-dwelling older adults in Taiwan.

[Read more...](#)

11. Prospective cohort study of long-term neurological outcomes in retired elite athletes: the Advanced BiomaRker, Advanced Imaging and Neurocognitive (BRAIN) Health Study protocol

25-04-2024 - National Library of Medicine

INTRODUCTION: Although limited, recent research suggests that contact sport participation might have an adverse long-term effect on brain health. Further work is required to determine whether this includes an increased risk of neurodegenerative disease and/or subsequent changes in cognition and behaviour. The Advanced BiomaRker, Advanced Imaging and Neurocognitive Health Study will ... [Read more...](#)

12. Duration, numerosity and length processing in healthy ageing and Parkinson's disease

24-04-2024 - National Library of Medicine

People constantly process temporal, numerical, and length information in everyday activities and interactions with the environment. However, it is unclear whether quantity perception changes during ageing. Previous studies have provided heterogeneous results, sometimes showing an age-related effect on a particular quantity, and other times reporting no differences between young and elderly ... [Read more...](#)

13. The interplay between climate change and ageing: A systematic review of health indicators

24-04-2024 - National Library of Medicine

Climate change and rapid population ageing pose challenges for communities and public policies. This systematic review aims to gather data from studies that present health indicators establishing the connection between climate change and the physical and mental health of the older population (≥ 65 years), who experience a heightened vulnerability to the impacts of climate change when compared ... [Read more...](#)

14. The relationship between marital status and cognitive impairment in Chinese older adults: the multiple mediating effects of social support and depression

24-04-2024 - National Library of Medicine

CONCLUSIONS: The study findings highlight the need for social service providers to design programs for promoting connections associated with informal support to reduce their risk of depression and cognitive impairment and for policymakers to develop effective formal social support systems for older people without spouses. This study indicated that older people could regain the benefits of ... [Read more...](#)

15. Investigating and analyzing the current situation and factors influencing chronic neck, shoulder, and lumbar back pain among medical personnel after the epidemic

23-04-2024 - National Library of Medicine

CONCLUSION: The incidence of chronic neck, shoulder, and lumbar back pain among medical staff is high its influencing factors are different and have not been systematically identified. Hospitals should take effective measures tailored to local conditions to improve the physical and mental health of medical staff. [Read more...](#)

16. Socioeconomic status, loneliness, and depression among older adults: a cross-sectional study in Spain

23-04-2024 - National Library of Medicine

CONCLUSION: Loneliness can contribute to explaining the role played by socioeconomic inequalities in depression among older adults. [Read more...](#)

17. Relationship between self-reported hearing and vision problems, cognitive decline, depressive symptoms, and life satisfaction in older adults: a retrospective observational study

23-04-2024 - National Library of Medicine

CONCLUSIONS: This study provides the first epidemiological evidence of the comprehensive relationships between hearing and vision problems, cognitive decline, depressive symptoms, and life satisfaction. When older adults report hearing and/or vision problems, clinicians and caregivers should be aware of the concurrence of declined cognition, elevated depressive symptoms, ... [Read more...](#)

18. EQ-5D-3L and EQ-5D-5L population norms for Thailand

22-04-2024 - National Library of Medicine

CONCLUSIONS: The Thai norm-based scores from those two instruments were diminished when advancing age and among female, unemployed, and obese (BMI \geq 30) participants. It is expected to provide information to policy makers to better allocate health care resources to those with diminished norm-based scores. [Read more...](#)

19. Distributions of recorded pain in mental health records: a natural language processing based study

20-04-2024 - National Library of Medicine

CONCLUSION: The findings of this study show sociodemographic and diagnostic differences in recorded pain. Specifically, lower documentation across certain groups indicates the need for better screening protocols and training on recognising varied pain presentations. Additionally, targeting improved detection of pain for minority and disadvantaged groups by care providers can promote health equity. [Read more...](#)

20. Art therapies and cognitive function in elderly with subjective cognitive decline: a protocol for a network meta-analysis

20-04-2024 - National Library of Medicine

INTRODUCTION: Subjective cognitive decline means a decline in the subjective perception of self-cognitive function, which is likely to evolve into mild cognitive impairment and dementia. The number of elderly with subjective cognitive decline has increased, bringing huge burdens and challenges to caregivers and society. With the increase in research on art therapies, ... [Read more...](#)

21. Assessment and report of individual symptoms in studies of delirium in postoperative populations: a systematic review

19-04-2024 - National Library of Medicine

CONCLUSIONS: The 78 symptoms reported in this systematic review cover domains of attention, awareness, disorientation and other cognitive changes. There is a lack of standardisation of terms, and many recorded symptoms are synonyms of each other. This systematic review provides a library of individual delirium symptoms, which may be used to inform future reporting. [Read more...](#)

22. Sex differences in cognitive decline among middle-aged and older adults: a cohort study in Europe

19-04-2024 - National Library of Medicine

OBJECTIVES: Previous studies on sex differences in cognitive decline provide inconsistent findings, with many European countries being underrepresented. We determined the association between sex and cognitive decline in a sample of Europeans and explored differences across birth cohorts and regions. [Read more...](#)

23. Loneliness Tied to Worse Physical, Mental Health Among Older Adults

19-04-2024 - National Library of Medicine

No abstract [Read more...](#)

24. Influence of intergenerational support on the mental health of older people in China

18-04-2024 - National Library of Medicine

Today, population aging is the main trend of population development. Home-based care is mainly adopted in Chinese society, and scholars have paid ample attention to the effect of intergenerational support on the mental health of older people. However, research conclusions differ. This study uses data from the 2018 China Health and Pension Tracking Survey (CHARLS), ... [Read more...](#)

25. Gait speed and its associated factors among older black adults in Sub-Saharan Africa: Evidence from the WHO study on Global AGEing in older adults (SAGE)

18-04-2024 - National Library of Medicine

Gait speed is an essential predictor of functional and cognitive decline in older adults. The study aimed to investigate the gait speed of older adults in Ghana and South Africa and to determine its associated factors, as the Sub-Saharan representatives in the World Health Organization's Study on Global AGEing in Older Adults (SAGE). A secondary analysis of data from the SAGE study which ... [Read more...](#)

26. Chronic kidney disease and cognitive performance: NHANES 2011-2014

18-04-2024 - National Library of Medicine

CONCLUSIONS: CKD, especially stages 3-5 CKD, was significantly associated with poor cognitive performance in terms of executive function, learning, processing speed, concentration, and working memory ability. All adults with CKD should be screened for cognitive impairment. [Read more...](#)

27. Correlation between fat-to-muscle mass ratio and cognitive impairment in elderly patients with type 2 diabetes mellitus: a cross-sectional study

18-04-2024 - National Library of Medicine

CONCLUSION: Elderly T2DM men with high FMR had unfavorable cognitive function. FMR is independently associated with an increased risk of CI in male T2DM patients regardless of BMI. [Read more...](#)

28. Impact of APOE-epsilon alleles on brain structure and cognitive function in healthy older adults: A VBM and DTI replication study

18-04-2024 - National Library of Medicine

CONCLUSIONS: The current study partially replicated and extended previous findings from an earlier multimodal study (Honea 2009). Future studies should clarify APOE mechanisms in healthy ageing by adding other imaging, cognitive, and lifestyle metrics and longitudinal design in larger sample sizes. [Read more...](#)

29. Mental health dynamics of adolescents: A one-year longitudinal study in Harari, eastern Ethiopia

18-04-2024 - National Library of Medicine

CONCLUSIONS: The prevalence of mental health problems were high among the study cohort. The proportion of overall problems and externalizing problems has increased over time, indicating a deterioration in the mental health of the study cohort. However, the decrease in internalizing problems among older adolescents, girls, and those with an average wealth index is a positive sign. [Read more...](#)

30. Do housing prices affect individual physical health? Evidence from China

17-04-2024 - National Library of Medicine

This study identifies the health effect of rising housing prices on individual physical health using the Chinese General Social Survey (CGSS) data. Exploiting exogenous housing prices, I find that rising housing prices adversely affect physical health status. Heterogeneity analyses yield interesting findings. First, the adverse effects of high housing prices are pronounced in the group owning ... [Read more...](#)

31. Perceptions of risk and coping strategies during the COVID-19 pandemic among women and older adults

17-04-2024 - National Library of Medicine

The world's health, economic, and social systems have been adversely impacted by the COVID-19 pandemic. With lockdown measures being a common response strategy in most countries, many individuals were faced with financial and mental health challenges. The current study explored the effect of the COVID-19 pandemic on the psychological well-being, perception of risk factors and coping ... [Read more...](#)

32. Cluster analysis dissecting cognitive deficits in older adults with major depressive disorder and the association with neurofilament light chain

16-04-2024 - National Library of Medicine

CONCLUSIONS: We noted the negative correlation between NfL levels and cognition in MDD patients clustered with neurodegenerative disorder, Alzheimer's type. NfL could be a promising candidate as a biomarker to predict subtype of patients in MDD to develop cognitive decline. Further longitudinal studies and within MDD cluster analysis are required to validate our findings for clinical implications. [Read more...](#)

33. Professionals' perspectives on interventions to reduce problematic alcohol use in older adults: a realist evaluation of working elements

16-04-2024 - National Library of Medicine

CONCLUSION: In addition to the IPT, our findings emphasise the need for social contact and support, personalised content, and strong relationships (both between client and practitioner, and client and peers) in interventions for older adults. [Read more...](#)

34. Association between the circulating very long-chain saturated fatty acid and cognitive function in older adults: findings from the NHANES

16-04-2024 - National Library of Medicine

CONCLUSIONS: The study suggests that higher levels of 22:0 and 24:0 are associated with better global cognitive function in older adults. 22:0 and 24:0 may be important biomarkers for recognizing cognitive impairment, and supplementation with specific VLSFAs (22:0 and 24:0) may be an important intervention to improve cognitive function. Further studies are needed to elucidate the underlying ... [Read more...](#)

35. The association between social connectedness and euthanasia and assisted suicide and related constructs: systematic review

16-04-2024 - National Library of Medicine

CONCLUSIONS: Our findings for all age groups are consistent with a those of a previous systematic review focussed on older adults and suggest that poor social connectedness is not a clear risk factor for EAS or for measures more distally related to EAS. However, we acknowledge low study quality in some studies in relation to sampling, unvalidated exposure/outcome measures, ... [Read more...](#)

36. Associations Between Self-Reported Visual Difficulty, Age of Onset, and Cognitive Function Trajectories Among Chinese Older Adults

15-04-2024 - National Library of Medicine

Objectives: This study examined the association between self-reported visual difficulty and age-related cognitive declines among older Chinese adults and how the timing of visual difficulty onset plays a role in cognitive trajectories. Methods: Data were drawn from the 2011-2018 wave of the China Health and Retirement Longitudinal Study, involving 9974 respondents aged 60 years or older (mean ... [Read more...](#)

37. The Role of Sensory Impairment in Cognitive Health Appraisal: A Study of Older Korean Americans Living in Subsidized Senior Housing

15-04-2024 - National Library of Medicine

OBJECTIVES: We examined how the association between cognitive performance and cognitive health appraisal would be moderated by vision and/or hearing impairment. [Read more...](#)

38. The Association of Vision and Hearing Impairment on Cognitive Function and Loneliness: Evidence From the Mexican Health and Aging Study

15-04-2024 - National Library of Medicine

Objectives: We investigated whether self-reported vision and hearing were associated with cognitive function and loneliness among Mexican adults aged 50 and older. Methods: Mexican Health and Aging Study data. Vision/hearing status was self-reported (excellent-very good, good, fair-poor). Cognition was measured using nine tasks. Loneliness was measured using the UCLA Loneliness Scale. [Read more...](#)

39. The effect of participation in support groups on retirement syndrome in older adults

12-04-2024 - National Library of Medicine

CONCLUSION: The results of this study show that participation of retired older adults in support groups can significantly improve all components of retirement syndrome, leading to an improvement in their quality of life and satisfaction. [Read more...](#)

40. Factors affecting hospital admission, hospital length of stay and new discharge destination post proximal humeral fracture: a retrospective audit

12-04-2024 - National Library of Medicine

CONCLUSIONS: Many factors potentially impact on the likelihood or risk of hospitalization, LOS and new discharge destination post PHF. Patients with greater comorbidities are more likely to have negative outcomes, while patients who had pre-morbid living situations of home with family/friend(s) or from an external care facility are more likely to have positive outcomes. [Read more...](#)

41. Development of a prognostic risk score to predict early mortality in incident elderly Japanese hemodialysis patients

11-04-2024 - National Library of Medicine

CONCLUSION: We developed a prognostic risk score predicting early death within 1 year in incident elderly Japanese HD patients, which may help detect elderly patients with a high-risk of early death after HD introduction. [Read more...](#)

42. Long-term development of loneliness in older people and associations with stringency of COVID-19 measures: an observational cohort study

11-04-2024 - National Library of Medicine

CONCLUSIONS: Even in a country with relatively less stringent COVID-19 measures like Switzerland, an increase in the proportion of older people that feel lonely could be found during phases with more stringent COVID-19 measures. Lockdown phases should, therefore, be accompanied by evidence-based interventions to relieve loneliness to avoid adverse short- and long-term consequences. [Read more...](#)

43. Financial-related discrimination and socioeconomic inequalities in psychological well-being related measures: a longitudinal study

11-04-2024 - National Library of Medicine

CONCLUSIONS: Financial-related discrimination is associated with worse psychological well-being and explains a small proportion of socioeconomic inequalities in psychological well-being. [Read more...](#)

44. The association between cannabis use and neuroimaging measures in older adults: findings from the UK biobank

11-04-2024 - National Library of Medicine

BACKGROUND: Cannabis use has increased in recent years. However, the long-term implications of cannabis use on brain health remain unknown. We explored the associations of cannabis use with volumetric brain magnetic resonance imaging (MRI) measures in dementia-free older adults. [Read more...](#)

45. Association of 8-hydroxy-2'-deoxyguanosine with motoric cognitive risk in elderly Chinese people: RUGAO longevity and aging cross-sectional study

11-04-2024 - National Library of Medicine

CONCLUSIONS: This study indicated the elevated plasma 8-OHdG is significantly associated with increased MCR risk in the elderly, suggesting its potential as a biomarker for early detection and intervention in MCR. This finding underscores the importance of monitoring oxidative DNA damage markers in predicting cognitive and motor function declines, offering new avenues for research and ... [Read more...](#)

46. Potentially inappropriate prescribing for people with dementia in ambulatory care: a cross-sectional observational study

10-04-2024 - National Library of Medicine

CONCLUSIONS: Findings have revealed a high prevalence of PIP among PwD in Saudi Arabia that is strongly associated with polypharmacy. Future research should aim to explore key stakeholders' experiences and perspectives of medicines management to optimise medication use for this vulnerable patient population. [Read more...](#)

47. Language outcomes of preschool children who are HIV-exposed uninfected: An analysis of a South African cohort

10-04-2024 - National Library of Medicine

INTRODUCTION: There are approximately 16 million children who are HIV-exposed and uninfected (CHEU) worldwide. Studies suggest that CHEU are at risk for developmental impairment in infancy, particularly in language domains. However, there is limited research examining neurocognitive function in CHEU older than 2 years, including important pre-school years. This study aimed to investigate ... [Read more...](#)

48. The association of access to green space with low mental distress and general health in older adults: a cross-sectional study

10-04-2024 - National Library of Medicine

CONCLUSIONS: Our findings suggest that the association between access to green space and mental health may be mediated by general health. This implies that studies of associations between access to green space and mental health must take general health into consideration.

[Read more...](#)

49. Dispositional mindfulness: Is it related to knee osteoarthritis population's common health problems?

10-04-2024 - National Library of Medicine

CONCLUSION: Greater emphasis should be placed on the cultivation of mindfulness to enhance individuals' perceived health, decrease their depressive mood, and promote their engagement in physical activity, which could indirectly alleviate their experience of pain and improve their physical function, yielding better quality of life and well-being. Future research should focus on interventions ... [Read more...](#)

50. Cannabis use and dependence among festival attendees: results from the French OCTOPUS survey

09-04-2024 - National Library of Medicine

CONCLUSIONS: Dependent cannabis use is common among festival attendees, especially among stimulant or hallucinogen users. Festival settings may be important arenas for i) implementing efficient harm reduction measures to prevent dependence and ii) providing information on care structures and promoting the use of care to dependent users. In addition, healthcare professionals should be aware of ... [Read more...](#)

51. Biological aging of two innate behaviors of *Drosophila melanogaster*: Escape climbing versus courtship learning and memory

09-04-2024 - National Library of Medicine

Motor and cognitive aging can severely affect life quality of elderly people and burden health care systems. In search for diagnostic behavioral biomarkers, it has been suggested that walking speed can predict forms of cognitive decline, but in humans, it remains challenging to separate the effects of biological aging and lifestyle. We examined a possible association of motor and cognitive ... [Read more...](#)

52. Does This Patient Have Alcohol Use Disorder?: The Rational Clinical Examination Systematic Review

09-04-2024 - National Library of Medicine

CONCLUSIONS AND RELEVANCE: The AUDIT screening tool is useful to identify alcohol use disorder in adults and in individuals within 48 hours postpartum. The National Institute on Alcohol Abuse and Alcoholism youth screening tool is helpful to identify children and adolescents with alcohol use disorder. The AUDIT-C appears useful for identifying various measures of excessive alcohol use in ... [Read more...](#)

53. Interventions for cold homes: a rapid review of the health impacts

08-04-2024 - National Library of Medicine

CONCLUSION: Structural improvements to increase home temperatures may offer the potential to improve some aspects of health. However, the impact on physical health, including which groups are most likely to benefit, is unclear. Key gaps include the lack of evidence about the impact of financial interventions, and the impact of all types of interventions, on quality of life, mortality and costs. [Read more...](#)

54. The relationship between gender, psychosocial factors, pain, health literacy and health-related quality of life in parents of Norwegian adolescents one year into the COVID-19 pandemic

08-04-2024 - National Library of Medicine

CONCLUSION: One year into the COVID-19 pandemic, we identified a strong negative association between stress and mental HRQOL, while pain was strongly negatively associated with physical HRQOL. [Read more...](#)

55. Analysis of the chain mediation effect between intergenerational support and mental health of older adults in urban China: a structural equation model

08-04-2024 - National Library of Medicine

CONCLUSION: These findings help identify modifiable factors that can improve the mental health of older adults. In line with the proposed serial multiple mediation model, this study provides theoretical and practical insights concerning the synergistic effect of intergenerational support at the family level and intergenerational interaction at the community level. [Read more...](#)

56. Subjective social status, health and well-being among older adults in China and South Korea: a cross-sectional analysis

08-04-2024 - National Library of Medicine

CONCLUSION: Overall, the results highlight a significant association among social status, subjective health, life satisfaction and general happiness in both the countries. Health policymakers should identify effective strategies to promote healthy ageing and reduce disparities in health and well-being outcomes among older adults from different social backgrounds. [Read more...](#)

57. Plasma ADAM10 Levels and their Association with Alzheimer's Disease Diagnosis in Older Adults with Fewer Years of Formal Education

07-04-2024 - National Library of Medicine

CONCLUSION: This study underscores the potential utility of plasma ADAM10 levels as a blood-based biomarker for cognitive status, especially in individuals with low educational backgrounds, shedding light on their relevance in AD development and diagnosis. [Read more...](#)

58. Effects of the COVID-19 pandemic on people experiencing incarceration: a systematic review

06-04-2024 - National Library of Medicine

CONCLUSION: PEI have poorer COVID-19 clinical outcomes than the general public, as shown by largely low-quality heterogenous evidence. Further high-quality research of continuing clinical outcomes and appropriate mitigating interventions is required to assess downstream effects of the pandemic on PEI. However, performing such research in the context of incarceration facilities is highly ... [Read more...](#)

59. Chronic loneliness and chronic social isolation among older adults: a study protocol for a systematic review, meta-analysis and meta-regression

05-04-2024 - National Library of Medicine

INTRODUCTION: There are around 20 studies identifying the prevalence of chronic loneliness and chronic social isolation in older adults. However, there is an absence of a systematic review, meta-analysis and meta-regression that consolidates the available observational studies. Therefore, our objective was to address this knowledge gap. Here, we present the study protocol for this upcoming work. [Read more...](#)

60. Microdose lithium improves behavioral deficits and modulates molecular mechanisms of memory formation in female SAMP-8, a mouse model of accelerated aging

04-04-2024 - National Library of Medicine

Alzheimer's disease (AD) is the most common neuronal disorder that leads to the development of dementia. Until nowadays, some therapies may alleviate the symptoms, but there is no pharmacological treatment. Microdosing lithium has been used to modify the pathological characteristics of the disease, with effects in both experimental and clinical conditions. The present work aimed to analyze ... [Read more...](#)

61. The association between restricted activity and patient outcomes in older adults: systematic literature review and meta-analysis

04-04-2024 - National Library of Medicine

CONCLUSIONS: Limited studies have considered the prognostic value of restricted activity in terms of predicting future declining health. Current evidence suggests restricted activity is associated with hospitalisation and mortality, and therefore could identify a group for whom early intervention might be possible. [Read more...](#)

62. Association between symptoms of depression and inflammatory parameters in people aged over 90 years

04-04-2024 - National Library of Medicine

CONCLUSIONS: Inflammatory parameters do not appear to predict the development of depressive disorders in people over 90 years of age. [Read more...](#)

63. Practices and outcomes of responsive caregiving on child neurodevelopment and mental health across diverse global populations: a scoping review protocol

03-04-2024 - National Library of Medicine

INTRODUCTION: Responsive caregiving (RC) leads to positive outcomes in children, including secure attachment with caregivers, emotional regulation, positive social interactions and cognitive development. Through our scoping review, we aim to summarise the practices and outcomes of RC in diverse caregiver and child populations from 0 to 8 years. [Read more...](#)

64. The effectiveness of the buddy program training module to enhance the daily living function, social participation and emotional status of older adults in residential aged care homes

03-04-2024 - National Library of Medicine

CONCLUSIONS: The buddy program training module can be used as a guideline for older adults with more significant disabilities in residential aged care homes in managing activities of daily living. Future studies could be implemented to explore the intergenerational buddy program among older adults and young children in the community. [Read more...](#)

65. Profiling chronic diseases and hospitalizations in older home care recipients: a nationwide cohort study in Sweden

03-04-2024 - National Library of Medicine

CONCLUSION: Compared to non-HC recipients, HC recipients more often live alone, have higher degrees of frailty, suffer from more chronic diseases, especially neurological disease, and are hospitalized almost twice as often. The results provide a thorough description of HC recipients, which might be useful for targeted healthcare interventions including closer collaboration between primary ... [Read more...](#)

66. Perioperative mental health intervention for depression and anxiety symptoms in older adults study protocol: design and methods for three linked randomised controlled trials

03-04-2024 - National Library of Medicine

INTRODUCTION: Preoperative anxiety and depression symptoms among older surgical patients are associated with poor postoperative outcomes, yet evidence-based interventions for anxiety and depression have not been applied within this setting. We present a protocol for randomised controlled trials (RCTs) in three surgical cohorts: cardiac, oncological and orthopaedic, ... [Read more...](#)

67. Internet-delivered transdiagnostic psychological treatments for individuals with depression, anxiety or both: a systematic review with meta-analysis of randomised controlled trials

03-04-2024 - National Library of Medicine

CONCLUSION: Internet-delivered transdiagnostic treatments for depression and anxiety show small-to-moderate added effects, varying by control condition. Research is needed regarding routine care, the video format, children and adolescents and older adults. [Read more...](#)

68. Protocol for a construct and clinical validation study of MyCog Mobile: a remote smartphone-based cognitive screener for older adults

03-04-2024 - National Library of Medicine

INTRODUCTION: Annual cognitive screening in older adults is essential for early detection of cognitive impairment, yet primary care settings face time constraints that present barriers to routine screening. A remote cognitive screener completed on a patient's personal smartphone before a visit has the potential to save primary care clinics time, encourage broader screening practices and ... [Read more...](#)

69. Evaluation of the demographic characteristics and general health status of earthquake survivors affected by the 2023 Kahramanmaraş earthquake a section from Gaziantep Nurdağı district

02-04-2024 - National Library of Medicine

CONCLUSION: General characteristics, injury prevalence and affecting factors of earthquake survivors were evaluated in the present study. Psychological distress was found in victims. For this reason, providing protective and assistive services to fight the destructive effects of earthquake is vital. Accordingly, increasing the awareness of people residing in earthquake zones regarding ... [Read more...](#)

70. Nature, prevalence, and risk factors for self-neglect among older people: a pilot study from Vellore, South India

02-04-2024 - National Library of Medicine

Changes in demography in developing countries have led to new issues among older rural populations, such as self-neglect which is under researched. Self-neglect identified as poor self-care, unsafe living quarters, inadequate medical care and poor utilization of services increase the odds of morbidity and mortality. Methods Our study was conducted in Kaniyambadi, ... [Read more...](#)

71. The associations between type 2 diabetes and plasma biomarkers of Alzheimer's disease in the Health and Aging Brain Study: Health Disparities (HABS-HD)

01-04-2024 - National Library of Medicine

Alzheimer's disease (AD) affects Latinos disproportionately. One of the reasons underlying this disparity may be type 2 diabetes (T2D) that is a risk factor for AD. The purpose of this study was

to examine the associations of T2D and AD blood biomarkers and the differences in these associations between Mexican Americans and non-Hispanic Whites. This study was a secondary analysis of baseline ... [Read more...](#)

[Back to Top](#)

Physical activity and ageing

1. Screening for Breast Cancer: US Preventive Services Task Force Recommendation Statement

30-04-2024 - National Library of Medicine

IMPORTANCE: Among all US women, breast cancer is the second most common cancer and the second most common cause of cancer death. In 2023, an estimated 43 170 women died of breast cancer. Non-Hispanic White women have the highest incidence of breast cancer and non-Hispanic Black women have the highest mortality rate. [Read more...](#)

2. HEBE project: Healthy aging versus inflamm-aging: The role of physical exercise in modulating the biomarkers of age-associated and environmentally determined chronic diseases, study protocol

30-04-2024 - National Library of Medicine

Inflamm-aging refers to the chronic low-grade inflammation that occurs with aging and cellular senescence, and it is linked to various diseases. Understanding the markers involved in inflammation and aging, as well as their interaction with environmental factors and bodily control mechanisms, can provide crucial tools for assessing the resilience (i.e. the ability to adapt and improve) of the ... [Read more...](#)

3. Patient-perceived factors influencing physical activity sensor use in stroke prevention and rehabilitation: A thematic synthesis protocol

30-04-2024 - National Library of Medicine

INTRODUCTION: While the putative benefits of "fitness trackers" continue to fuel a booming consumer market, results of device-based clinical interventions remain remarkably mixed. This study will explore factors influencing wearable physical activity (PA) sensor use in the context of stroke prevention and rehabilitation for older adults. The findings of this thematic synthesis will provide ... [Read more...](#)

4. Influence of a change in activity regime on femoral bone architecture and failure behaviour

29-04-2024 - National Library of Medicine

The incidence and morbidity of femoral fractures increases drastically with age. Femoral architecture and associated fracture risk are strongly influenced by loading during physical activities and it has been shown that the rate of loss of bone mineral density is significantly lower for active individuals than inactive. The objective of this work is to evaluate the impact of a cessation of ... [Read more...](#)

5. Multicomponent perioperative interventions to improve outcomes for frail patients: a systematic review

26-04-2024 - National Library of Medicine

CONCLUSIONS: This systematic review provides evidence that frail surgical patients undergoing elective oncologic gastrointestinal surgery may benefit from targeted multicomponent perioperative interventions. Yet methodological issues and substantial heterogeneity of the interventions precludes drawing clear conclusions regarding the optimal model of care. Larger, ... [Read more...](#)

6. Intra- and inter-limb strength imbalance and asymmetry in soccer: A comparison of elite senior and junior players

26-04-2024 - National Library of Medicine

Evaluation of muscle strength imbalance can be an important element in optimizing the training process of soccer players. The purpose of the study was to examine isokinetic peak torque (PT) and total work (TW) exerted by both knee extensors (quadriceps or Q) and flexors (hamstrings or H), intra-limb imbalance and the magnitude and direction of inter-limb asymmetry in top elite senior (n = ... [Read more...](#)

7. Risk factors for smoking in adolescence: evidence from a cross-sectional survey in Switzerland

25-04-2024 - National Library of Medicine

CONCLUSIONS: Our results suggest the importance of a comprehensive approach at both individual and institutional levels to reduce smoking rates in adolescents. More specifically, a holistic strategy that encompasses adolescents, families, schools and policymakers ranging from strengthening adolescents' self-esteem, smoking cessation support for parents, to increasing engagement in musical and ... [Read more...](#)

8. A large, multi-center survey assessing health, social support, literacy, and self-management resources in patients with heart failure

24-04-2024 - National Library of Medicine

CONCLUSIONS: More than half of patients with HF managed their health by themselves. Increased understanding of self-management resources may guide the development of interventions to improve HF outcomes. [Read more...](#)

9. The effect of obesity phenotype changes on cardiovascular outcomes in adults older than 40 years in the prospective cohort of the Tehran lipids and glucose study (TLGS): joint model of longitudinal and time-to-event data

23-04-2024 - National Library of Medicine

CONCLUSIONS: It seems that modifications to metabolic disorders may have an impact on the heightened incidence of CVDs. Based on this, males with obesity and any type of metabolic disorder had a higher risk of CVD, stroke and CVD mortality (excluding MI) compared to those with a normal body mass index (BMI) and no metabolic disorders. Females with obesity and any type of metabolic disorder ... [Read more...](#)

10. The regional disparities in liver disease comorbidity among elderly Chinese based on a health ecological model: the China Health and Retirement Longitudinal Study

23-04-2024 - National Library of Medicine

CONCLUSION: The comorbidities associated with liver disease exhibit specific clustering patterns at both the overall and local levels. By analyzing the comorbidity patterns of liver diseases in different regions and establishing co-morbid co-causal patterns, this study offers a new perspective and scientific basis for the prevention and treatment of liver diseases. [Read more...](#)

11. Correlational analysis of sarcopenia and multimorbidity among older inpatients

22-04-2024 - National Library of Medicine

CONCLUSION: In the hospitalized older adults, the more chronic diseases they have, the higher the prevalence of sarcopenia. When the CCI is 5, attention needs to be paid to the occurrence of sarcopenia in hospitalized older adults. [Read more...](#)

12. Prediction of walking speed one year following hip fracture based on pre-fracture assessments of mobility and physical activity

22-04-2024 - National Library of Medicine

CONCLUSIONS: Duration and frequency of regular walks before the hip fracture play a role in walking speed recovery one year following the fracture. Subjective outcome measures of mobility and physical activity, recalled from pre-fracture can predict walking speed at one year. They are gentle on the old and medically frail patients in the acute phase after hip fracture, ... [Read more...](#)

13. Feasibility of a screening and prevention procedure for risks associated with dysphagia in older patients in geriatric units: the DYSPHAGING pilot study protocol

20-04-2024 - National Library of Medicine

BACKGROUND: Dysphagia, particularly sarcopenic dysphagia, is frequent in frail older patients. Sarcopenic dysphagia is a swallowing disorder caused by sarcopenia, corresponding to a loss of muscle mass and strength. It frequently leads to inhalation and to the decrease of food intake, leading the patient to enter a vicious circle of chronic malnutrition and frailty. [Read more...](#)

14. Diet and lifestyle behaviours simultaneously act on frailty: it is time to move the threshold of frailty prevention and control forward

20-04-2024 - National Library of Medicine

CONCLUSION: The combined effect of these factors (no exercise or less than 0.5 h of exercise per day, occasional exercise, exercise at low intensity, feeling more tired at work, and eating too many staple foods (> 450 g per day) are more detrimental to maintaining robustness. [Read more...](#)

15. Effects of combined cognitive and resistance training on physical and cognitive performance and psychosocial well-being of older adults 65: study protocol for a randomised controlled trial

20-04-2024 - National Library of Medicine

INTRODUCTION: With increasing life expectancy of older adult population, maintaining independence and well-being in later years is of paramount importance. This study aims to investigate the impact of three distinct interventions: cognitive training, resistance training and a combination of both, compared with an inactive control group, on cognitive performance, ... [Read more...](#)

16. Test-retest reliability of Latin American Group for Maturity (GDLAM) protocol in older women

19-04-2024 - National Library of Medicine

Functional autonomy (FA) is a critical factor in determining the quality of life of older adults (OA), especially in the case of older women (OW), as they face a decline in FA in their later years of life. FA should be assessed early, using valid, reliable, and low-cost tests. This study evaluated the test-retest reliability of GDLAM and GDLAM autonomy index (GI) in OW. Thirty-nine OW (71.2 ± 6). [Read more...](#)

17. The effects of dance interventions on physical function and quality of life among middle-aged and older adults: A systematic review

19-04-2024 - National Library of Medicine

CONCLUSION: In terms of improving physical function and quality of life, structured dance is a safe and relatively effective alternative to exercise. Note the effect of movement selection and intensity in the dance interventions. Dance with music may increase participants' interest, encouraging more physical activity among middle-aged and older adults. [Read more...](#)

18. Therapeutic education of patients with coronary heart disease: Impact of digital platform monitoring in preventing major cardiovascular events in Tunisia: Study protocol

18-04-2024 - National Library of Medicine

BACKGROUND: Faced with the increase in the number of chronic diseases with the aging of the population, and with the observation of the insufficiency of therapeutic control, a new need has emerged, that of having a patient as a partner in care. [Read more...](#)

19. Feasibility and preliminary effects of a mindfulness-based physical exercise (MBPE) program for community-dwelling older people with sarcopenia: A protocol for a parallel, two-armed pilot randomised controlled trial

18-04-2024 - National Library of Medicine

CONCLUSION: The findings of this study will be able to provide evidence for the health professionals in adopting MBPE as a supportive intervention for the older adults with sarcopenia and the groundworks for the researchers in developing non-pharmacological intervention for older adults. The positive effects could facilitate healthy ageing and relieve the burden of the medical system, ... [Read more...](#)

20. Semiparametric modeling for the cardiometabolic risk index and individual risk factors in the older adult population: A novel proposal

18-04-2024 - National Library of Medicine

CONCLUSIONS: Semiparametric modeling explained 24.5% of the observed deviance, which was higher than the 18.2% explained by the linear model. [Read more...](#)

21. Effect of weight loss on knee joint synovitis over 48 months and mediation by subcutaneous fat around the knee: data from the Osteoarthritis Initiative

16-04-2024 - National Library of Medicine

CONCLUSIONS: Effusion-synovitis progression was slowed by weight loss and decrease in local subcutaneous fat. Hoffa-synovitis characterized by fluid in the infrapatellar fat pad increased at the same time, suggesting a decreasing fat pad rather than active synovitis. Decrease in local subcutaneous fat partially mediated the systemic effect of weight loss on synovitis. [Read more...](#)

22. Effects of a therapeutic lifestyle modification intervention on cardiometabolic health, sexual functioning and health-related quality of life in perimenopausal Chinese women: protocol for a randomised controlled trial

16-04-2024 - National Library of Medicine

INTRODUCTION: Perimenopause is a critical transitional period in reproductive ageing. A set of physiological and psychological changes can affect perimenopausal women's quality of life and further threaten their older adult health conditions. In China, less than one-third of midlife women with menopausal symptoms have actively sought professional healthcare. Regarding the public health ... [Read more...](#)

23. The effects of plantarflexor weakness and reduced tendon stiffness with aging on gait stability

16-04-2024 - National Library of Medicine

Falls among older adults are a costly public health concern. Such falls can be precipitated by balance disturbances, after which a recovery strategy requiring rapid, high force outputs is necessary. Sarcopenia among older adults likely diminishes their ability to produce the forces necessary to arrest gait instability. Age-related changes to tendon stiffness may also delay muscle stretch and ... [Read more...](#)

24. Fall prediction in a quiet standing balance test via machine learning: Is it possible?

16-04-2024 - National Library of Medicine

The elderly population is growing rapidly in the world and falls are becoming a big problem for society. Currently, clinical assessments of gait and posture include functional evaluations,

objective, and subjective scales. They are considered the gold standard to indicate optimal mobility and performance individually, but their sensitivity and specificity are not good enough to predict who is ... [Read more...](#)

25. Factors associated with cardiovascular disease: A comparative study of the UK Asian diaspora and residents of India

16-04-2024 - National Library of Medicine

CONCLUSION: After adjusting for risk factors, there was no difference in CVD between localised Asians and the ethnic minorities in the UK, but there was a difference between the majority ethnicities in the respective countries. [Read more...](#)

26. Exploring the knowledge and skills for effective family caregiving in elderly home care: a qualitative study

15-04-2024 - National Library of Medicine

CONCLUSION: The results emphasized the importance of enhancing education and training for family caregivers in handling elderly health issues, raising awareness about specialized healthcare services catered to the elderly, improving understanding of activities of daily living (ADLs) and fall prevention, and offering inclusive training in healthcare tasks related to elder care. [Read more...](#)

27. Longitudinal association of grip strength with cardiovascular and all-cause mortality in older urban Lithuanian population

15-04-2024 - National Library of Medicine

CONCLUSIONS: The mean GS was significantly higher among survivors' men and women as compared to deceased from CVD and other causes of death. Risk of all-cause mortality significantly increased with decreasing of GS. [Read more...](#)

28. Reporting form and content of research priorities identified in knee osteoarthritis clinical practice guidelines: a methodological literature analysis

11-04-2024 - National Library of Medicine

CONCLUSIONS: Research priorities reported in KOA CPGs mainly focused on evaluating non-pharmacological interventions. There exists considerable room for improvement for a comprehensive and standardised generation and reporting of research priorities in KOA CPGs. [Read more...](#)

29. Rural and urban differences in the prevalence and determinants of Type-2 diabetes in Bangladesh

11-04-2024 - National Library of Medicine

CONCLUSION: Our study outlines a comprehensive strategy to combat the increasing prevalence of T2D in both urban and rural areas. It includes promoting healthier diets to control BMI level, encouraging regular physical activity, early detection through health check-ups, tailored awareness campaigns, improving healthcare access in rural regions, stress management in urban areas, ... [Read more...](#)

30. Design considerations for the migration from paper to screen-based media in current health education for older adults: a scoping review

11-04-2024 - National Library of Medicine

CONCLUSIONS: We recommend having improved screen-based media design, continued use of paper-based media and the possible combination of both media through the new augmented paper technology. [Read more...](#)

31. Particle analysis of surgical lung biopsies from deployed and non-deployed US service members during the Global War on Terrorism

11-04-2024 - National Library of Medicine

The role that inhaled particulate matter plays in the development of post-deployment lung disease among US service members deployed to Southwest Asia during the Global War on Terrorism has been difficult to define. There is a persistent gap in data addressing the relationship between relatively short-term (months to a few years) exposures to high levels of particulate matter during deployment ... [Read more...](#)

32. Square-stepping exercise in older inpatients in early geriatric rehabilitation. A randomized controlled pilot study

10-04-2024 - National Library of Medicine

CONCLUSIONS: SSE in combination with a reduced number of sessions of cPT is as effective as cPT for inpatients in early geriatric rehabilitation to increase physical function and gait characteristics. In the Chair Rise test SSE appears to be superior. These results highlight that SSE is effective, and may serve as an additional component for cPT for older adults requiring geriatric acute care. [Read more...](#)

33. Moxibustion for declined cardiorespiratory fitness of apparently healthy older adults: A study protocol for a randomized controlled trial

09-04-2024 - National Library of Medicine

BACKGROUND: Aging and age-related declines lead to varying degrees of decreased cardiorespiratory fitness (CRF) in apparently healthy older adults. Exercise training, the primary approach for enhancing CRF, encounters several constraints when used with elderly individuals. Existing evidence implies that moxibustion might enhance the CRF of older adults. However, ... [Read more...](#)

34. Metastasis patterns and prognosis in young gastric cancer patients: A propensity score-matched SEER database analysis

09-04-2024 - National Library of Medicine

CONCLUSIONS: Compared with the older group, the metastatic GC patients in the younger group exhibited more aggressive tumors but better prognoses. The metastasis pattern and its effect on the prognosis of GC varied by age group. [Read more...](#)

35. Cardiovascular risk of veterans' football: An observational cohort study with follow-up

05-04-2024 - National Library of Medicine

CONCLUSION: Veterans' football matches elicit increases in BNP and particularly cTnl in a considerable number of players. However, these biochemical alterations do not indicate acute cardiac damage as evidenced by follow-up. Routine determination of cardiac biomarkers is unlikely to improve cardiovascular screening in veteran football players. [Read more...](#)

36. What determines participation in sport for older adults in England: A multilevel analysis of Active Lives data

04-04-2024 - National Library of Medicine

Physical inactivity within an ageing population is an ongoing public health concern for policymakers. Engagement in sport forms a foundation of policy designed to encourage physical activity participation and improve health and wellbeing. This study aimed to (i) understand the extent to which older adults participate in sport and the (ii) correlates that predict this involvement within an ... [Read more...](#)

37. Association between dental scaling and metabolic syndrome and lifestyle

04-04-2024 - National Library of Medicine

CONCLUSIONS: The more metabolic syndrome components, and the higher unhealthy lifestyle score, the less scaling was performed. [Read more...](#)

38. A pulmonary rehabilitation program is an effective strategy to improve forced vital capacity, muscle strength, and functional exercise capacity similarly in adults and older people with post-severe COVID-19 who required mechanical ventilation

04-04-2024 - National Library of Medicine

CONCLUSIONS: The PR program is an effective strategy to improve FVC, muscle strength, and functional exercise capacity similarly in adults and older people with post severe COVID-19 who required MV. [Read more...](#)

39. Influence of lower limb isokinetic muscle strength and power on the occurrence of falls in community-dwelling older adults: A longitudinal study

04-04-2024 - National Library of Medicine

CONCLUSION: The findings indicate that hip abductor strength and hip flexor power can be considered protective factors against falls in independent older adults in the community. These findings may contribute to developing effective fall-prevention strategies for this population. [Read more...](#)

40. Partially supervised exercise programmes for fall prevention improve physical performance of older people at risk of falling: a three-armed multi-centre randomised controlled trial

03-04-2024 - National Library of Medicine

CONCLUSION: The self-administered home-based exercise programme showed the lowest fall incidence rate, but also the highest dropout rate of participants at high risk of falling. Both partially supervised programmes resulted in statistically significant improvements in physical performance compared with the self-administered programme. [Read more...](#)

41. The automatic activity of abdominal muscles during stable and unstable standing postural tasks in older adults with and without low back pain- A cross-sectional study

02-04-2024 - National Library of Medicine

CONCLUSIONS: Standing on a dynamic level increased the automatic activity of the TrA muscle in participants without LBP compared to standing on a static level. Further research is required to investigate the effects of TrA muscle training during standing on dynamic surfaces for the treatment of older adults with LBP. [Read more...](#)

42. Mobility-related brain regions linking carotid intima-media thickness to specific gait performances in old age

02-04-2024 - National Library of Medicine

CONCLUSIONS: Carotid intima-media thickness is associated with gait performances, and mobility-related brain volume mediates these associations. Moreover, the distribution of brain regions regulating mobility varies in the different gait domains. Our study adds value in exploring the underlying mechanisms of gait disturbance in the aging population. [Read more...](#)

43. Assessing fall risk and equilibrium function in patients with age-related macular degeneration and glaucoma: An observational study

01-04-2024 - National Library of Medicine

CONCLUSION: Self-efficacy was higher and fall risk was relatively lower among patients with mild-to-moderate visual impairment, with a tendency for sensory reweighting from visual to somatosensory in those with greater peripheral visual field impairment. Further studies are required to validate these findings. [Read more...](#)

44. Lifestyle-related factors in late midlife as predictors of frailty from late midlife into old age: a longitudinal birth cohort study

01-04-2024 - National Library of Medicine

CONCLUSIONS: Lifestyle-related differences in frailty were already evident in late midlife and persisted into old age. Adopting one new healthy lifestyle-related factor had a small impact on a slightly less steeply increasing level of frailty. Maintaining regular exercise and sleeping habits may help prevent more rapid increases in frailty. [Read more...](#)

[Back to Top](#)

Employment, volunteering and ageing

1. Concussion response and recovery in men and women's rugby union: A reflexive thematic analysis of player interviews

30-04-2024 - National Library of Medicine

Numerous concussion-management protocols have been developed in rugby, though little is known about player's personal experiences of concussion. Specifically, research typically refers to clinical recovery, with social and psychological sequelae post-concussion gaining little attention. This study aimed to explore the experiences of rugby players in relation to being concussed and recovering ... [Read more...](#)

2. Teaching beyond retirement: the consultant neuroradiologist

29-04-2024 - National Library of Medicine

No abstract [Read more...](#)

3. In Praise of Hospice

25-04-2024 - National Library of Medicine

No abstract [Read more...](#)

4. Characteristics of motor evoked potentials in patients with peripheral vascular disease

25-04-2024 - National Library of Medicine

With an aging population, it is common to encounter people diagnosed with peripheral vascular disease (PVD). Some will undergo surgeries during which the spinal cord may be compromised and intraoperative neuromonitoring with motor evoked potentials (MEPs) is employed to help mitigate paralysis. No data exist on characteristics of MEPs in older, PVD patients, which would be valuable for ... [Read more...](#)

5. Anthropometric failures and its predictors among under five children in Ethiopia: multilevel logistic regression model using 2019 Ethiopian demographic and health survey data

24-04-2024 - National Library of Medicine

CONCLUSIONS: The burden of composite index of anthropometric failure in under five children was high in Ethiopia. Age of child, sex of child, preceding birth interval, mother's education, household wealth index, community women literacy and administrative regions of Ethiopia were identified as significant predictors of CIAF. Therefore, emphasis should be given for those factors to decrease ... [Read more...](#)

6. Social determinants of health and emergency department visits among older adults with multimorbidity: insight from 2010 to 2018 National Health Interview Survey

24-04-2024 - National Library of Medicine

CONCLUSION: SDoH factors are associated with ED visits among older adults with multimorbidity. Systematic multidisciplinary team approaches are needed to address social disparities affecting not only multimorbidity prevalence but also health-seeking behaviors and emergent healthcare access. [Read more...](#)

7. Longitudinal association between the dynamic nature of depression with lower urinary tract symptoms suggestive of benign prostatic hyperplasia (LUTS/BPH)

23-04-2024 - National Library of Medicine

CONCLUSIONS: Our results suggest that the dynamic nature of depression has a different effect on the incidence of LUTS/BPH. The monitoring and treatment of depression are important in preventing LUTS/BPH. [Read more...](#)

8. Sexual harassment and implicit gender-career biases negatively impact women's life expectancy in the US: a state-level analysis, 2011-2019

23-04-2024 - National Library of Medicine

CONCLUSION: The study contributes to the small but growing literature showing that negative workplace experiences and bias against women in the workplace negatively impact women's health. [Read more...](#)

9. The mediating role of depressive symptoms among Turkish population related to gender and low back pain: evidence from a national health survey

23-04-2024 - National Library of Medicine

CONCLUSION: We observed that a higher likelihood of low back pain associated with gender and aging. Additionally, BMI served as a significant predictor, particularly in adults. Depression mediated the association between gender and low back pain. Acknowledging these associations may help identify and address contributing factors to LBP, potentially increasing awareness and alleviating the burden. [Read more...](#)

10. Does psychological distress predict risk of orthopaedic surgery and postoperative opioid prescribing in patients with hip pain? A retrospective study

20-04-2024 - National Library of Medicine

CONCLUSIONS: Psychological distress characteristics are modifiable targets for rehabilitation programs, but their use as prognostic factors for risk of orthopaedic surgery and opioid prescribing in patients with hip pain appears limited when considered alongside other commonly collected clinical information such as age, insurance, type of surgery pursued, and iHOT-12 scores. [Read more...](#)

11. Using emulated clinical trials to investigate the risk of being diagnosed with psychiatric ill health following the cancer diagnosis of a sibling

18-04-2024 - National Library of Medicine

CONCLUSIONS: In line with theories of linked lives, our findings suggest that negative events in one sibling's life tend to 'spill over' on the other sibling's wellbeing, at least during the 15-year-long period leading up to retirement age. [Read more...](#)

12. Trends and determinants of clinical staff retention in the English NHS: a double retrospective cohort study

16-04-2024 - National Library of Medicine

CONCLUSIONS: Demographic and contractual factors appear to be stronger predictors of hospital staff retention than organisational characteristics. [Read more...](#)

13. Risk of diabetes and expected years in life without diabetes among adults from an urban community in India: findings from a retrospective cohort

15-04-2024 - National Library of Medicine

CONCLUSION: The study's outcomes have significant implications for the importance of early diabetes detection. Progression patterns suggest that younger cohorts exhibit a comparatively slower rate of progression compared to older cohorts. [Read more...](#)

14. Exposure to pro-tobacco and anti-tobacco media messages and events and smoking behaviour among adolescents in Gambia

15-04-2024 - National Library of Medicine

CONCLUSION: This study underscores the significant impact of exposure to both anti-tobacco and pro-tobacco media messages and events on smoking behaviour among adolescents in Gambia. However, pro-tobacco messages had a greater influence on smoking prevalence than anti-tobacco messages and events. Understanding these associations is crucial for devising effective public health interventions ... [Read more...](#)

15. Paternal and maternal exposures to adverse childhood experiences and spontaneous fetal loss: a nationwide cross-sectional analysis

15-04-2024 - National Library of Medicine

CONCLUSION: Both maternal and paternal ACEs were associated with spontaneous abortion, and potential mediators might need to be considered to further explore impacts of maternal and paternal ACEs on maternal reproductive health. [Read more...](#)

16. Older Adults' Unmet Needs at the End of Life: A Cross-Country Comparison of the United States and England

13-04-2024 - National Library of Medicine

Objectives: This study aimed to compare the end-of-life (EOL) experiences in concentration with place of death, for older adults in the U.S. and England. Methods: Weighted comparative analysis was conducted using harmonized Health and Retirement Study and English Longitudinal Study of Ageing datasets covering the period of 2006-2012. Results: At the EOL, more older adults in the U.S. (64. [Read more...](#)

17. Hypertension subtypes at high altitude in Peru: Analysis of the Demographic and Family Health Survey 2016-2019

12-04-2024 - National Library of Medicine

CONCLUSIONS: Residents at high altitudes in Peru have a lower prevalence rate of ISH and a higher prevalence rate of IDH compared to those living at low altitudes. Further studies are needed to determine the influence of other biological, environmental, and healthcare access factors on this relationship. [Read more...](#)

18. Understanding responsibility for health inequalities in children's hospitals in England: a qualitative study with hospital staff

11-04-2024 - National Library of Medicine

CONCLUSIONS: Broadly speaking, senior leaders were clear about their organisational role in reducing health inequalities where they impacted on access and quality of care, but there was some uncertainty about the perceived boundaries of responsibility. This led to fragility in the sustainability of activity, and a lack of joined-up intervention. Most hospitals were forging ahead with activity, ... [Read more...](#)

19. Association between socioeconomic status and post-stroke depression in middle-aged and older adults: results from the China health and retirement longitudinal study

11-04-2024 - National Library of Medicine

CONCLUSIONS: SES significantly influences the occurrence of PSD, which is reflected by education attainment and annual household expenditures. Education attainment was an independent influence on PSD, with a more pronounced effect in rural versus urban areas. We hope to reduce the prevalence of PSD and enhance the comprehensive management of this disease by modifying the influencing factors. [Read more...](#)

20. Effective Relationships Between Younger Caregivers and Older Care Recipients Across a Continuum of Formal Residential Care Settings: A Scoping Review and a Critical Analysis

11-04-2024 - National Library of Medicine

Objective: This article aims to conduct a scoping review of what constitutes effective relational interactions between caregivers (CGs) and older persons (OPs) across formal residential care settings. Methods: A scoping review of publications between January 2000 and December 2021 yielded 10,929 articles, and after removing duplicates and applying exclusion criteria, 36 articles were analysed. [Read more...](#)

21. Qualitative study on the core competencies of nursing personnel in emergency medical rescue teams at comprehensive hospitals in Chongqing, China

11-04-2024 - National Library of Medicine

CONCLUSIONS: Our study revealed that through interviews with 15 experts with extensive experience in the public health event, the essential elements of core competencies for nursing personnel assigned to emergency medical rescue teams during the public health event were identified. These can serve as a reference standard for the selection of nursing personnel in public health events, ... [Read more...](#)

22. Decomposition analysis on the equity of health examination utilization for the middle-aged and elderly people in China: based on longitudinal CHARLS data from 2011 to 2018

10-04-2024 - National Library of Medicine

CONCLUSIONS: A pro-rich inequity existed in health examination service utilization among the middle-aged and elderly population in China. Reducing the wealth and regional gap, providing equal educational opportunities, and strengthening the capacity for chronic disease prevention and control are crucial for reducing the inequity in health examination service utilization. [Read more...](#)

23. Additive interaction of family medical history of diabetes with hypertension on the diagnosis of diabetes among older adults in India: longitudinal ageing study in India

10-04-2024 - National Library of Medicine

CONCLUSIONS: The study findings strongly suggest that the interaction of family history of diabetes with hypertension has a positive and significant effect on the risk of diabetes even after adjustment with potential confounding factors. Furthermore, the findings indicate a synergistic effect, emphasizing the importance of considering both family medical history of diabetes and hypertension ... [Read more...](#)

24. Utilize multi-metabolic parameters as determinants for prediction of skeletal muscle mass quality in elderly type2 diabetic Chinese patients

09-04-2024 - National Library of Medicine

CONCLUSIONS: In this cross-sectional study, BMI, Female, and PPCP associated with T2DM were protective factors for low muscle mass. BF was associated with T2DM and risk factor for low muscle mass. [Read more...](#)

25. Who shares fake news on social media? Evidence from vaccines and infertility claims in sub-Saharan Africa

09-04-2024 - National Library of Medicine

The widespread dissemination of misinformation on social media is a serious threat to global health. To a large extent, it is still unclear who actually shares health-related misinformation deliberately and accidentally. We conducted a large-scale online survey among 5,307 Facebook users in six sub-Saharan African countries, in which we collected information on sharing of fake news and truth ... [Read more...](#)

26. Trends in prevalence of hearing loss in adults in the USA 1999-2018: a cross-sectional study

08-04-2024 - National Library of Medicine

CONCLUSIONS: The prevalence of hearing loss in USA adults changed over the period 1999-2018. The trends observed provide valuable insight for making public health plans and allocating resources to hearing care. Further investigation is necessary to monitor hearing loss and its potential risk factors. [Read more...](#)

27. Eating and drinking experience in patients with idiopathic pulmonary fibrosis: a qualitative study

06-04-2024 - National Library of Medicine

CONCLUSIONS: To our knowledge, this is the first study to report on IPF patients' lived experience of eating and drinking changes associated with their diagnosis. Findings demonstrate that some patients have substantial struggles and challenges with eating and drinking, affecting them physically, emotionally and socially. There is a need to provide better patient information for this area and ... [Read more...](#)

28. Trajectories of depressive symptom and its association with air pollution: evidence from the Mr. OS and Ms. OS Hong Kong cohort study

05-04-2024 - National Library of Medicine

CONCLUSIONS: In this study, we found that a late increase in depressive symptoms was the predominant trend in older Chinese people in Hong Kong. Poorer HRQOL was predictive of less favorable trajectories of depressive symptoms. Ambient air pollution was associated with depressive symptoms. This novel observation strengthens the epidemiological evidence of longitudinal changes in depressive ... [Read more...](#)

29. Predictors of Job Retention After Onset of Visual Impairment in Late Middle Age

05-04-2024 - National Library of Medicine

Objectives: We investigated factors associated with job retention after developing a visual impairment in late middle adulthood. Methods: Using longitudinal survey data from the Health and Retirement Study, we identified respondents who first reported poor eyesight or legal blindness at age 44-64 years in Waves 3-14 and who were employed in the previous wave. [Read more...](#)

30. Logistic burdens of cancer care: A qualitative study

04-04-2024 - National Library of Medicine

Cancer treatment often creates logistic conflicts with everyday life priorities however, these challenges and how they are subjectively experienced have been largely unaddressed in cancer care. Our goal was to describe time and logistic requirements of cancer care and whether and

how they interfered with daily life and well-being. We conducted interviews with 20 adults receiving ... [Read more...](#)

31. Effect of long-term care insurance policy on depression in non-disabled people: evidence from China

04-04-2024 - National Library of Medicine

CONCLUSIONS: Depression in non-disabled people was statistically significant reduced because of LTCI policy in China, and non-disabled people who unretired, with financial support and without social participation benefited more from LTCI policy. Our findings highlight the depression-reducing effect of LTCI policy in non-recipients and suggest that non-disabled people who unretired, ... [Read more...](#)

32. Assessment the awareness of vitamin D deficiency among the general population in Syria: an online cross-sectional study

02-04-2024 - National Library of Medicine

CONCLUSION: Our research revealed that most of the participated individuals have sufficient comprehension about vitamin D, despite, there were significant gap. Health education via programs by government health-care agencies, NGOs and social workers is necessary to increase the awareness and knowledge toward benefits, source, deficiency and toxicity of vitamin D to avoid injury several ... [Read more...](#)

33. Daylight saving time was not associated with a change in suicide rates in Austria, Switzerland and Sweden

01-04-2024 - National Library of Medicine

CONCLUSIONS: There were no significant changes in suicide rates associated with DST and no clear evidence to support proposed mechanisms (light exposure, disruption of sleep). Our study is one of the largest and was adequately powered. Nonetheless, even larger studies to detect smaller effects could be important to inform the debate about harms and benefits of DST. [Read more...](#)

34. Exploring the impacts of age at menarche on cognitive aging in late adulthood: Evidence from a Mendelian randomization study on the Taiwanese population

01-04-2024 - National Library of Medicine

CONCLUSION: Evidence from the present MR study did not fully support a causal relationship between AM and cognitive function decline in later life. Potential pleiotropic effects of the genes underlying these two traits are worth of further investigation. [Read more...](#)

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Musculoskeletal health, falls prevention and ageing

1. A multidisciplinary approach to improve adherence to medical recommendations in older adults at hospital discharge: The APPROACH study protocol

30-04-2024 - National Library of Medicine

INTRODUCTION: Poor comprehension and medication adherence are common in older people, especially after hospitalizations, in case of changes or prescriptions of new therapeutic regimes. This randomized controlled trial aims to evaluate the effectiveness of an integrated approach in improving older individuals' adherence to medical recommendations after hospital discharge. [Read more...](#)

2. Mortality and re-fracture rates in low trauma hip fracture

29-04-2024 - National Library of Medicine

CONCLUSION: Patients with low-trauma hip fractures have shown a high rate of mortality in the first year. Considering the increase in the incidence of hip fractures with age, comprehensive strategies are needed to prevent fractures caused by minor trauma in the elderly population. [Read more...](#)

3. Frailty screening in the Emergency Department: why does it matter?

24-04-2024 - National Library of Medicine

No abstract [Read more...](#)

4. Comparison of acute outcomes from elective total hip replacements and after fragility femoral neck fractures in nonagenarians

24-04-2024 - National Library of Medicine

CONCLUSION: There is no increased risk of 1-year mortality in emergency THR compared to elective THR, in a nonagenarian population. Therefore, nonagenarians presenting with a hip fracture who would have been considered for a THR if presenting on an elective basis should not be precluded from an emergency THR on safety grounds. [Read more...](#)

5. Temporal trends and the association between self-rated oral health and falls in community-dwelling older adults in South Korea: a secondary analysis of survey data

24-04-2024 - National Library of Medicine

CONCLUSIONS: Older adults with poor SROH, especially women, had more fall accidents, making them a priority target for fall prevention strategies. This study suggests considering SROH status when identifying fall risk factors in community-dwelling older adults. [Read more...](#)

6. Cross-cultural adaptation and psychometric evaluation of the social frailty scale in Iranian older adults

24-04-2024 - National Library of Medicine

CONCLUSIONS: The Persian version of the Social Frailty Scale (P-SFS) can be used as a valid and reliable scale to assess social frailty in Iranian older adults. [Read more...](#)

7. Bilateral intertrochanteric fractures in an elderly patient following high-energy trauma: a case report

22-04-2024 - National Library of Medicine

CONCLUSION: Managing bilateral intertrochanteric fractures, particularly in the elderly with severe trauma, is notably challenging due to their rarity. However, a coordinated multidisciplinary approach and one-stage bilateral internal fixation can lead to effective treatment outcomes and favorable prognoses. [Read more...](#)

8. Assessing the relationship between multimorbidity, NCD configurations, frailty phenotypes, and mortality risk in older adults

22-04-2024 - National Library of Medicine

CONCLUSIONS: Frailty accompanying multimorbidity emerges as a more crucial indicator of mortality risk than multimorbidity alone. Therefore, studying NCD configurations is worthwhile as they may offer improved risk profiles for mortality as alternatives to straightforward counts. [Read more...](#)

9. Homecare workers - an untapped resource in preventing emergency department visits among older individuals? A qualitative interview study from Sweden

18-04-2024 - National Library of Medicine

CONCLUSIONS: HCWs feel that they have an important role in the health management of older individuals living at home. Still, they feel as an untapped resource in the prevention of ED visits.

They deem that improved coordination and communication between primary care, ED, and homecare organisations as well as proactive care would enable them to add significantly to the prevention of ED visits. [Read more...](#)

10. Demographic disparities in the limited awareness of alcohol use as a breast cancer risk factor: empirical findings from a cross-sectional study of U.S. women

18-04-2024 - National Library of Medicine

CONCLUSIONS: Overall, only a quarter of U.S. women were aware that alcohol use increases breast cancer risk, although 40% expressed uncertainty. Differences in awareness by age, level of education, race and ethnicity and level of alcohol use offer opportunities for tailored prevention interventions, while the overall low level of awareness calls for widespread efforts to increase awareness of ... [Read more...](#)

11. The roles of health literacy and social support in the association between smartphone ownership and frailty in older adults: a moderated mediation model

17-04-2024 - National Library of Medicine

CONCLUSIONS: Owning smartphones among older adults could reduce the risk of frailty. Promoting health literacy and social support among older adults with smartphones would be effective to prevent frailty. [Read more...](#)

12. Shared decision-making for non-operative management versus operative management of hip fractures in selected frail older adults with a limited life expectancy: a protocol for a nationwide implementation study

17-04-2024 - National Library of Medicine

BACKGROUND AND PURPOSE: Recent research has highlighted non-operative management (NOM) as a viable alternative for frail older adults with hip fractures in the final phase of life. This study aims to guide Dutch physicians and hospitals nationwide in a standardised implementation of shared decision-making regarding surgery or NOM in selected frail older adults with a hip fracture. [Read more...](#)

13. Barriers and facilitators to early mobilisation and weight-bearing as tolerated after hip fracture surgery among older adults in Saudi Arabia: a qualitative study

15-04-2024 - National Library of Medicine

CONCLUSION: This study contributes to national and global discussions on the prescription of early mobilisation and weight-bearing as tolerated. It highlights the necessity for a harmonised approach, incorporating standardised, evidence-based protocols with patient-specific care, robust healthcare governance and routine audits and monitoring for quality assurance and better patient outcomes. [Read more...](#)

14. Comparison of the clinical outcomes between proximal femoral nail anti-rotation with cement enhancement and hemiarthroplasty among elderly osteoporotic patients with intertrochanteric fracture

15-04-2024 - National Library of Medicine

CONCLUSION: The use of PFNA combined with a cement-enhanced internal fixation technique led to shorter operative time and lesser intraoperative blood loss and trauma in elderly patients as compared to HA. [Read more...](#)

15. Effects of medication management in geriatric patients who have fallen: results of the EMMA mixed-methods study

15-04-2024 - National Library of Medicine

CONCLUSION: as patients' individual attitudes towards trauma and medication were not predictable, an individual and longitudinal CMM is required. A standardised approach is not helpful in this population. [Read more...](#)

16. Cardiology: What You May Have Missed in 2023

15-04-2024 - National Library of Medicine

Cardiology and all its subspecialties continue to push the envelope in developing new treatment strategies for a wide variety of diseases. After screening more than 1300 articles, we highlight a selection of important cardiology articles published in 2023. Starting with prevention, we note articles that look at the effect of semaglutide in patients with obesity as well as a first-in-class ... [Read more...](#)

17. Predictive value of the systemic immune-inflammation index on one-year mortality in geriatric hip fractures

15-04-2024 - National Library of Medicine

CONCLUSION: The postoperative fifth-day SII is a simple and useful inflammatory biomarker for predicting one-year mortality in patients with hip fracture. [Read more...](#)

18. Targeted metabolomic profiles of serum amino acids are independently correlated with malnutrition in older adults

15-04-2024 - National Library of Medicine

CONCLUSION: Our study suggests that serum aromatic amino acids are independently associated with malnutrition in older adults. These results have important implications for identifying potential biomarkers to predict geriatric malnutrition or monitor its progression and severity, as malnutrition can result in poor clinical outcomes. [Read more...](#)

19. Nephrology: What You May Have Missed in 2023

15-04-2024 - National Library of Medicine

This article highlights a selection of important nephrology studies published in 2023 that have relevance for nonnephrologist physicians. Four studies examined progression of chronic kidney disease or cardiovascular disease with respect to finerenone use, magnesium supplementation, iron markers, and COVID-19. Two studies examined treatments to improve specific aspects of chronic kidney ... [Read more...](#)

20. The small screw-apex distance is potentially associated with femoral head osteonecrosis in adults with femoral neck fractures treated by closed reduction and percutaneous 3 parallel cannulated screws

13-04-2024 - National Library of Medicine

CONCLUSIONS: The short SAD of all screws is associated with femoral head necrosis of FNFs treated with 3 cannulated screws. The short SAD indicated that screws malpositioning in the weight-bearing area of the femoral head, potentially harming the blood supply and compromising the anchorage of the primary compressive trabeculae in this region. [Read more...](#)

21. Therapeutic advantage of teriparatide in very elderly patients with proximal femoral fractures: a functional and BMD analysis

13-04-2024 - National Library of Medicine

CONCLUSION: Administering teriparatide daily for 18 months post-surgery for proximal femoral fractures significantly benefits very elderly patients by improving functionality and bone density, with observed differences in recovery between genders. These results reinforce the efficacy of teriparatide as a potent option for treating osteoporosis-related fractures in the elderly and highlight ... [Read more...](#)

22. Effect modification of polypharmacy on incident frailty by chronic kidney disease in older adults

12-04-2024 - National Library of Medicine

CONCLUSIONS: This study demonstrates an association of polypharmacy and incident frailty and suggests strong evidence for an effect modification of CKD on polypharmacy and incident frailty. Revision of prescriptions could be a target strategy to prevent frailty occurrence, especially in older adults with CKD. [Read more...](#)

23. Survivorship of the fixed-bearing medial unicompartmental knee arthroplasty: mean 14-year follow-up in a single medical center

12-04-2024 - National Library of Medicine

CONCLUSIONS: The fixed-bearing medial UKA provides successful long-term survivorship. Tibial component loosening is the major cause of failure. Older age and hypertension were factors with decreased risk of implant loosening. [Read more...](#)

24. Clinical outcomes following direct anterior approach during total hip arthroplasty without hip extension: a retrospective comparative study

10-04-2024 - National Library of Medicine

CONCLUSIONS: Compared to the THE, employing the NHE strategy during THA with DAA in elderly and young female patients resulted in comparable clinical outcomes with several advantages, such as favourable surgical time. The NHE method also exhibited good safety and effectiveness. Therefore, the NHE strategy may be a favourable option for elderly and young female patients. [Read more...](#)

25. Fall risk factors among poly-medicated older Lebanese patients in primary care settings: a secondary cross-sectional analysis of the "MGPIDP-L project"

10-04-2024 - National Library of Medicine

CONCLUSION: Our study highlights the importance of addressing multiple risk factors for falls among Lebanese older adults and emphasizes the need for customized interventions and ongoing monitoring to prevent falls and improve health outcomes. This study sheds light on a critical issue in the Lebanese older population and provides valuable insight into the complex nature of falls among ... [Read more...](#)

26. Longitudinal Patterns of Multimorbidity in Gulf War Era Veterans With and Without Gulf War Illness

09-04-2024 - National Library of Medicine

Objectives: To examine whether severe Gulf War illness (SGWI) case status was associated with longitudinal multimorbidity patterns. Methods: Participants were users of the Veteran Health Administration Health Care System drawn from the Gulf War Era Cohort and Biorepository (n = 840). Longitudinal measures of multimorbidity were constructed using (1) electronic health records (Charlson ... [Read more...](#)

27. Does post acute care reduce the mortality of octogenarian and nonagenarian patients undergoing hip fracture surgery?

08-04-2024 - National Library of Medicine

CONCLUSIONS: PAC is associated with a lower rate of mortality and complications such as urinary tract infection, bed sore, and pneumonia in octogenarian and nonagenarian patients with hip fragility fracture. [Read more...](#)

28. Impact of the COVID-19 pandemic on hospital episodes for falls and fractures associated with new-onset disability and frailty in England: a national cohort study

06-04-2024 - National Library of Medicine

CONCLUSIONS: People living with frailty experienced increased fall and fracture rates above expected during and following periods of national lockdown. These remained persistently elevated throughout the study period. [Read more...](#)

29. The global prevalence of and risk factors for fear of falling among older adults: a systematic review and meta-analysis

05-04-2024 - National Library of Medicine

CONCLUSION: The global prevalence of FOF was high, especially in developing countries and in patients. Demographic characteristics, Physical function, chronic diseases and mental problems were a significant association with FOF. Policy-makers, health care providers and government officials should comprehensively evaluate these risk factors and formulate precise intervention measures to reduce FOF. [Read more...](#)

30. Frailty same day emergency care (SDEC): a novel service model or an unhelpful distraction?

05-04-2024 - National Library of Medicine

No abstract [Read more...](#)

31. The role of depression in the association between mobilisation timing and live discharge after hip fracture surgery: Secondary analysis of the UK National Hip Fracture Database

04-04-2024 - National Library of Medicine

CONCLUSION: A similar proportion of patients with depression mobilised early after hip fracture surgery when compared to those without a diagnosis of depression. The association between mobilisation timing and time to live discharge was observed for patients with and without depression. [Read more...](#)

32. Mobility Device Use and Frailty Progression in Community-Dwelling Older Adults With Mobility Limitations

02-04-2024 - National Library of Medicine

Objective: Examine the association between mobility device use and changes in a frailty index (FI) over one year in community-dwelling older adults with mobility limitations. Methods: Analyses utilized 2015-2016 data from the National Health and Aging Trends Study community-dwelling older adults (n = 3934). We calculated a validated 40-item deficit accumulation frailty index (FI) in 2015 and ... [Read more...](#)

33. Enhancing knowledge, attitude, and perceptions towards fall prevention among older adults: a pharmacist-led intervention in a primary healthcare clinic, Gemas, Malaysia

02-04-2024 - National Library of Medicine

CONCLUSION: The pharmacist-led educational intervention significantly improved the knowledge, attitude, and perception of falls among older adults. More structured and periodical intervention programmes are warranted to reduce the risk of falls and fractures among older adults. [Read more...](#)

34. Zoledronate for hip fractures: the road towards achieving consensus

01-04-2024 - National Library of Medicine

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Ageism and discrimination

1. Intersectional stigma and the non-communicable disease syndemic in the context of HIV: protocol for a multisite, observational study in the USA

26-04-2024 - National Library of Medicine

INTRODUCTION: The increasing burden of non-communicable diseases, such as hypertension, diabetes and dyslipidaemia, presents key challenges to achieving optimal HIV care outcomes among ageing people living with HIV. These diseases are often comorbid and are exacerbated by psychosocial and structural inequities. This interaction among multiple health conditions and social factors is referred ... [Read more...](#)

2. Predicting clinical outcomes of SARS-CoV-2 infection during the Omicron wave using machine learning

25-04-2024 - National Library of Medicine

The Omicron SARS-CoV-2 variant continues to strain healthcare systems. Developing tools that facilitate the identification of patients at highest risk of adverse outcomes is a priority. The study objectives are to develop population-scale predictive models that: 1) identify predictors of adverse outcomes with Omicron surge SARS-CoV-2 infections, and 2) predict the impact of prioritized ... [Read more...](#)

3. Prevalence, associated risk factors and patient and economic impact of multiple sensory impairment in a multi-ethnic elderly population in Singapore: the PIONEER study

22-04-2024 - National Library of Medicine

CONCLUSIONS: MSI is a highly prevalent medical condition, with 1 in 5 and almost 1 in 10 community-dwelling older Asians having any and bilateral MSI, respectively, with a higher likelihood in men, smokers, and those with low SES. Critically, MSI has a substantial negative impact on patient health and economic outcomes across the laterality spectrum. Sensory testing is critical to detect and ... [Read more...](#)

4. Role of NT-proBNP and lung ultrasound in diagnosing and classifying heart failure in a hospitalized oldest-old population: a cross-sectional study

20-04-2024 - National Library of Medicine

CONCLUSIONS: Although NT-proBNP and LUS help diagnose HF, their accuracy in discriminating HF_{rEF} from non-HF_{rEF} was poor in our real-life clinical study on oldest-old hospitalized patients, making the use of TTE still necessary to distinguish HF phenotypes in this peculiar setting. These data require confirmation in more extensive and longer prospective studies. [Read more...](#)

5. Pneumococcal vaccination and primary care presentations for acute respiratory tract infection and antibiotic prescribing in older adults

18-04-2024 - National Library of Medicine

CONCLUSION: PPV23 vaccination in older adults may result in a small reduction in the incidence of total ARI presentations in primary care. However, the effect is small and residual confounding cannot be excluded. [Read more...](#)

6. Sex-related inequalities in crude and age-standardized suicide rates: trends in Ghana from 2000 to 2019

17-04-2024 - National Library of Medicine

CONCLUSION: The suicide rate in Ghana has declined over time. Suicide is more common among older men. Inequalities in suicide rates, in both absolute and relative terms, are similar.

There is a need to monitor suicide trends in Ghana, especially among older men. Moreover, the findings could serve as a basis for future studies on suicide in Ghana. [Read more...](#)

7. Population ageing, incarceration and the growing digital divide: Understanding the effects of digital literacy inequity experienced by older people leaving prison

17-04-2024 - National Library of Medicine

CONCLUSIONS: The digital inequity that older people experience during and after incarceration creates additional challenges for a growing group who are already medically and socially marginalised. Prioritisation of this group for digital literacy initiatives both during incarceration and in the community will have benefits for their health, social and financial reintegration. [Read more...](#)

8. Can predictive factors determine the time to treatment initiation for oral and oropharyngeal cancer? A classification and regression tree analysis

17-04-2024 - National Library of Medicine

This ecological study aimed to identify the factors with the greatest power to discriminate the proportion of oral and oropharyngeal cancer (OOC) records with time to treatment initiation (TTI) within 30 days of diagnosis in Brazilian municipalities. A descriptive analysis was performed on the variables grouped into five dimensions related to patient characteristics, access to health services, ... [Read more...](#)

9. Predicting the risks of kidney failure and death in adults with moderate to severe chronic kidney disease: multinational, longitudinal, population based, cohort study

15-04-2024 - National Library of Medicine

CONCLUSIONS: KDpredict could be incorporated into electronic medical records or accessed online to accurately predict the risks of kidney failure and death in people with moderate to severe CKD. The KDpredict learning strategy is designed to be adapted to local needs and regularly revised over time to account for changes in the underlying health system and care processes. [Read more...](#)

10. Younger but sicker? Cohort trends in disease accumulation among middle-aged and older adults in Scotland using health-linked data from the Scottish Longitudinal Study

11-04-2024 - National Library of Medicine

CONCLUSION: We recommend policies which target prevention of chronic disease in working age adults, considering how and why certain conditions are becoming more prevalent across time and space. [Read more...](#)

11. Using explainable AI to investigate electrocardiogram changes during healthy aging- From expert features to raw signals

11-04-2024 - National Library of Medicine

Cardiovascular diseases remain the leading global cause of mortality. Age is an important covariate whose effect is most easily investigated in a healthy cohort to properly distinguish the former from disease-related changes. Traditionally, most of such insights have been drawn from the analysis of electrocardiogram (ECG) feature changes in individuals as they age. [Read more...](#)

12. Solving poverty or tackling healthcare inequalities? Qualitative study exploring local interpretations of national policy on health inequalities under new NHS reforms in England

08-04-2024 - National Library of Medicine

CONCLUSIONS: Varied and vague interpretations of NHS policy on health inequalities are not new, but lack of clarity among local health leaders brings major risks-including interventions being

poorly targeted or inadvertently widening inequalities. Greater conceptual clarity is likely needed to guide ICS action in future. [Read more...](#)

13. Socioeconomic differences in digital inequality among Chinese older adults: Results from a nationally representative sample

02-04-2024 - National Library of Medicine

The current study seeks to investigate digital inequality among older adults in China, specifically examining two socially defined age groups: young-old adults (aged 60-74) and old-old adults (aged 75+). Descriptive statistics and multiple regression were used to examine the prevalence of and identify the factors associated with Internet access, usage (frequency and breadth containing 11 ... [Read more...](#)

14. Social Mobility and Health-Related Quality of Life Trajectory Classes Among Older Women and Men

01-04-2024 - National Library of Medicine

OBJECTIVES: Changes in socioeconomic status (SES) during life may impact health in old age. We investigated whether social mobility and childhood and adulthood SES are associated with trajectories of health-related quality of life (HrQoL) over a 17-year period. [Read more...](#)

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