



Healthy Ageing Current Awareness Update

June 2024

Welcome to the monthly **Healthy Ageing Current Awareness Update** (HACAU), 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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CONTENTS

- **Healthy lifestyle and dementia prevention**
- **Living well with dementia**
- **Mental health and ageing**
- **Physical activity and ageing**
- **Employment, volunteering and ageing**
- **Musculoskeletal health, falls prevention and ageing**
- **Ageism and discrimination**

Healthy lifestyle and dementia prevention

1. The motifs of radical embodied neuroscience

31-05-2024 - National Library of Medicine

In this paper, I analyse how the emerging scientific framework of radical embodied neuroscience is different from contemporary mainstream cognitive neuroscience. To do so, I propose the notion of motif to enrich the

philosophical toolkit of cognitive neuroscience. This notion can be used to characterize the guiding ideas of any given scientific framework in psychology and neuroscience. [Read more...](#)

2. Bradykinin 2 receptors (B2R) mediate long term neurocognitive deficits after experimental traumatic brain injury

31-05-2024 - National Library of Medicine

The kallikrein-kinin system is one of the first inflammatory pathways to be activated following traumatic brain injury (TBI) and has been shown to exacerbate brain edema formation in the acute phase through activation of Bradykinin-2-receptors (B2R). However, the influence of B2 receptors on chronic posttraumatic damage and outcome is unclear. In the current study we assessed long term ... [Read more...](#)

3. Finger Food Meals as a Means of Improving Mealtimes for People with Motoric Eating Difficulties: A Pilot Study

31-05-2024 - National Library of Medicine

Motoric eating difficulties affecting the ability to eat according to established norms may result in loss of autonomy, reduced food intake and decreased social interaction. Finger food meals may affect the ability to eat independently and were therefore compared to regular meals for older adults >65 years with major motoric eating difficulties. In this pilot study the screening instrument ... [Read more...](#)

4. Metabolic Syndrome and Positive Frailty Screening: A Cross-Sectional Study with Community-Dwelling Older Adults

31-05-2024 - National Library of Medicine

CONCLUSION: The metabolic syndrome was associated to the increase chance of screening for prefrailty in the older people evaluated, which reinforces the need to establish preventive measures in relation to the metabolic syndrome to avoid frailty in the older people. [Read more...](#)

5. MicroRNA Profiles in Hematopoietic Stem Cell Transplant Recipients

31-05-2024 - National Library of Medicine

Background: Hematopoietic Stem Cell Transplant (HCT) is a potentially curative treatment for hematologic malignancies, including multiple myeloma. Biomarker investigation can guide identification of HCT recipients at-risk for poor outcomes. MicroRNAs (miRNAs) are a class of non-coding RNAs involved in the modulation and regulation of pathological processes and are emerging as prognostic and ... [Read more...](#)

6. The Use of Text Messaging as an Adjunct to Internet-Based Cognitive Behavioral Therapy for Major Depressive Disorder in Youth: Secondary Analysis

31-05-2024 - National Library of Medicine

CONCLUSIONS: The hypothesized positive associations between conceptually categorized text messages and MDD symptom improvement were not supported in this study. Instead, more text messaging appeared to indicate less treatment benefit. Future studies with larger samples are needed to discern the optimal use of text messaging in ICBT approaches using adjunctive modes of communication. [Read more...](#)

7. Vitamin D, Cognition, and Alzheimer's Disease: Observational and Two-Sample Mendelian Randomization Studies

31-05-2024 - National Library of Medicine

CONCLUSIONS: In conclusion, our MR study found no clear evidence to support a protective role of increased 25(OH)D concentrations on cognitive performance in European ancestry individuals. However, our study cannot entirely dismiss the potential beneficial effect on PACC for individuals over the age of 60. [Read more...](#)

8. Factors related to training time and achieving proficiency with visual-assistive mobile applications in visually impaired older adults

31-05-2024 - National Library of Medicine

CONCLUSIONS: Following multiple, extensive training sessions, age, mild cognitive loss, or level of visual impairment did not preclude gaining proficiency with visual-assistive apps by visually impaired seniors, but those factors were associated with longer training times. Telerehabilitation can be a viable option to provide app training remotely for visually impaired seniors who choose that ... [Read more...](#)

9. Robust High-Dimensional Regression with Coefficient Thresholding and its Application to Imaging Data Analysis

31-05-2024 - National Library of Medicine

It is important to develop statistical techniques to analyze high-dimensional data in the presence of both complex dependence and possible heavy tails and outliers in real-world applications such as imaging data analyses. We propose a new robust high-dimensional regression with coefficient thresholding, in which an efficient nonconvex estimation procedure is proposed through a thresholding ... [Read more...](#)

10. Incidence of Traumatic Brain Injury in a Longitudinal Cohort of Older Adults

31-05-2024 - National Library of Medicine

CONCLUSIONS AND RELEVANCE: In this longitudinal cohort study of older adults, almost 13% experienced incident TBI during the 18-year study period. For older adults who seek care for TBI, race and ethnicity, sex, and SDOH factors may be associated with incidence of TBI, seeking medical attention for TBI in older adulthood, or both. [Read more...](#)

11. Delirium care in hospitals in Ireland on World Delirium Awareness Day 2023

31-05-2024 - National Library of Medicine

CONCLUSIONS: Clinical practice related to delirium care requires improvement. Awareness raising and staff training require more focus and time in busy clinical settings. [Read more...](#)

12. Long-Term Epidural Patching Outcomes and Predictors of Benefit in Patients With Suspected CSF Leak Nonconforming to ICHD-3 Criteria

31-05-2024 - National Library of Medicine

BACKGROUND AND OBJECTIVES: Spinal CSF leaks lead to spontaneous intracranial hypotension (SIH). While International Classification of Headache Disorders, Third Edition (ICHD-3) criteria necessitate imaging confirmation or low opening pressure (OP) for SIH diagnosis, their sensitivity may be limited. We offered epidural blood patches (EBPs) to patients with symptoms suggestive of SIH, ... [Read more...](#)

13. Differential Indirect Effects of Military Sexual Trauma on Posttraumatic Stress Disorder Symptom Clusters via Past-Year Intimate Partner Violence Experiences

31-05-2024 - National Library of Medicine

Women who serve in the military are at high risk for experiencing military sexual trauma (MST) and intimate partner violence (IPV), both of which are associated with symptoms of posttraumatic stress disorder (PTSD). To improve understanding of the psychological effects of experiencing multiple forms of interpersonal violence, it is important to identify the ways in which recent IPV ... [Read more...](#)

14. Characterizing Longitudinal Patterns in Cognition, Mood, And Activity in Depression With 6-Week High-Frequency Wearable Assessment: Observational Study

31-05-2024 - National Library of Medicine

CONCLUSIONS: The current results support the feasibility and sensitivity of high-frequency cognitive assessments for disease and treatment monitoring in patients with depression. Methods to model the individual plateau in task learning can be used as a sensitive approach to better characterize changes in behavior and improve the clinical relevance of cognitive data. [Read more...](#)

15. The Experience of Cancer-Related Cognitive Impairment Across Common Cancers: Protocol for a Qualitative Systematic Review

31-05-2024 - National Library of Medicine

CONCLUSIONS: This protocol highlights the need for a qualitative synthesis that will explore the experience of CRCI across common cancer types. It will provide valuable insight into the lived experience of CRCI and the cognitive domains that may be disproportionately affected. There is a growing demand for further management interventions and clinically tested treatments of CRCI and the ... [Read more...](#)

16. Intensive rehabilitation after pelvic and hip fractures: a comparative retrospective study

31-05-2024 - National Library of Medicine

CONCLUSION: Despite slightly different characteristics in the two groups, the results of intensive rehabilitation were similar. Cognitive state was the only independent factor that affected achievement of a better rehabilitation outcome. With the increasing rate of PF, more studies should focus on rehabilitation in this patient population. [Read more...](#)

17. Transcriptional and Translational Regulation of Differentially Expressed Genes in Yucatan Miniswine Brain Tissues following Traumatic Brain Injury

31-05-2024 - National Library of Medicine

Traumatic brain injury (TBI) is a leading cause of morbidity, disability, and mortality worldwide. Motor and cognitive deficits and emotional disturbances are long-term consequences of TBI. A lack of effective treatment for TBI-induced neural damage, functional impairments, and cognitive deficits makes it challenging in the recovery following TBI. One of the reasons may be the lack of ... [Read more...](#)

18. The effects of mobile phone dependence on athletic performance and its mechanisms

31-05-2024 - National Library of Medicine

Mobile phone dependence (also known as internet dependence, MPD), defined as a problematic behavior characterized by excessive use or intermittent craving to use a mobile phone, results in various social, behavioral, and affective problems in daily life. In sports, MPD is directly related to the physical and mental health and sports performance of athletes. The individual and environmental ... [Read more...](#)

19. Cognitive Vulnerability to Mood Deterioration in an Exercise Cessation Paradigm

31-05-2024 - National Library of Medicine

Mood deterioration in response to exercise cessation is well-documented, but moderators of this effect remain unknown. This study tested the hypothesis that physically active individuals with higher levels of cognitive vulnerability (i.e., tendencies towards negative thought content and processes in response to stress or negative mood states) are at greater risk for increased anxiety and ... [Read more...](#)

20. Acupuncture combined with repetitive transcranial magnetic stimulation for the treatment of post-stroke depression: a systematic evaluation and meta-analysis based on a randomised controlled trial

31-05-2024 - National Library of Medicine

CONCLUSION: Acupuncture combined with rTMS therapy is recommended for treating PSD, as it effectively improves clinical outcomes, alleviates depressive symptoms, enhances cognitive function, and daily living capabilities, and modulates inflammatory responses and neurotransmitter levels. However, it is important to note that the limitations of the sample size and quality of the included ... [Read more...](#)

21. The inhibitory effect of a recent distractor: singleton vs. multiple distractors

31-05-2024 - National Library of Medicine

In the complex interplay between sensory and cognitive processes, the brain must sift through a flood of sensory data to pinpoint relevant signals. This selective mechanism is crucial for the effective control of behaviour, by allowing organisms to focus on important tasks and blocking out distractions. The Inhibition of a Recent Distractor (IRD) Task examines this selection process by ... [Read more...](#)

22. Amyloid-beta Deposition Predicts Grocery Shopping Performance in Older Adults Without Cognitive Impairment

31-05-2024 - National Library of Medicine

CONCLUSIONS: OA with elevated A β deposition may exhibit subtle working memory impairments and less efficient visual search strategies while performing a cognitively demanding everyday task. [Read more...](#)

23. Abnormal eye movements increase as motor disabilities and cognitive impairments become more evident in Multiple Sclerosis: A novel eye-tracking study

31-05-2024 - National Library of Medicine

CONCLUSION: This study found significant correlations between eye movement behavior and motor and cognitive disability in pwMS. These findings suggest that eye movements have the potential to be used as a surrogate biomarker in MS progression. [Read more...](#)

24. CVD incidence and mortality among people with diabetes and/or hypertension: Results from the English longitudinal study of ageing

31-05-2024 - National Library of Medicine

CONCLUSIONS: In order to effectively reduce the risk of CVD incidence and mortality among older people, treatment as well as management of hypertension and diabetes should be routinely considered for older people with diabetes and/or hypertension. [Read more...](#)

25. Cardiocerebrovascular benefits of early rhythm control in patients with atrial fibrillation detected after stroke: a systematic review and meta-analysis

31-05-2024 - National Library of Medicine

CONCLUSIONS: Patients with AFDAS who underwent ERC treatment exhibited a decreased risk of cardiocerebrovascular events compared to those receiving usual care. These results support the potential benefits of implementing an ERC strategy for this specific patient population. [Read more...](#)

26. COVID-19 vaccination may prevent postoperative delirium in elderly patients undergoing elective non-cardiac surgery: The PNDRFAP and PNDABLE studies

31-05-2024 - National Library of Medicine

CONCLUSIONS: COVID-19 vaccine is a protective factor for POD in old patients, which is associated with CSF biomarkers. [Read more...](#)

27. Impact of Skills for Change Program on metabolic control, diet and physical activity levels in adults with type 2 diabetes: A cluster randomized trial

31-05-2024 - National Library of Medicine

CONCLUSIONS: This community-based lifestyle intervention for patients with baseline HbA1c <8% did not result in a significant decrease of HbA1c but reduced caloric intake, body weight, and weekend inactivity after controlling for the covariates. [Read more...](#)

28. Occupational Pesticide Exposure in Parkinson's Disease Related to GBA and LRRK2 Variants

31-05-2024 - National Library of Medicine

CONCLUSIONS: Occupational pesticide exposure may increase penetrance of GBA-PD and may be associated with faster symptom progression. Further studies in larger cohorts are necessary. [Read more...](#)

29. Synthesis of new N-(5,6-methylenedioxybenzothiazole-2-yl)-2-[(substituted)thio/piperazine]acetamide/propanamide derivatives and evaluation of their AChE, BChE, and BACE-1 inhibitory activities

31-05-2024 - National Library of Medicine

In this study, the synthesis of N-(5,6-methylenedioxybenzothiazole-2-yl)-2-[(substituted)thio/piperazine]acetamide/propanamide derivatives (3a-3k) and to investigate their acetylcholinesterase (AChE), butyrylcholinesterase (BChE) and β -secretase 1 (BACE-1) inhibition activity

were aimed. Mass, ¹H NMR, and ¹³C NMR spectra were utilized to determine the structure of the synthesized compounds. [Read more...](#)

30. Resveratrol Inhibits VDAC1-Mediated Mitochondrial Dysfunction to Mitigate Pathological Progression in Parkinson's Disease Model

31-05-2024 - National Library of Medicine

An increase in α -synuclein (α -syn) levels and mutations in proteins associated with mitochondria contribute to the development of familial Parkinson's disease (PD) however, the involvement of α -syn and mitochondria in idiopathic PD remains incompletely understood. The voltage-dependent anion channel 1 (VDAC1) protein, which serves as a crucial regulator of mitochondrial function and a ... [Read more...](#)

31. New insights into sodium phenylbutyrate as a pharmacotherapeutic option for neurological disorders

31-05-2024 - National Library of Medicine

Neurological disorders (NDs) are diseases of the central and peripheral nervous systems that affect more than one billion people worldwide. The risk of developing an ND increases with age due to the vulnerability of the different organs and systems to genetic, environmental, and social changes that consequently cause motor and cognitive deficits that disable the person from their daily ... [Read more...](#)

32. Heavy metals toxicity on epigenetic modifications in the pathogenesis of Alzheimer's disease (AD)

31-05-2024 - National Library of Medicine

Alzheimer's disease (AD) is a progressive decline in cognitive ability and behavior which eventually disrupts daily activities. AD has no cure and the progression rate varies unlikely. Among various causative factors, heavy metals are reported to be a significant hazard in AD pathogenesis. Metal-induced neurodegeneration has been focused globally with thorough research to unravel the ... [Read more...](#)

33. Alzheimer's disease and oral manifestations: a bi-directional Mendelian randomization study

31-05-2024 - National Library of Medicine

CONCLUSION: The present findings contributed to a better understanding of the correlation between AD and oral conditions, specifically oral cavity cancer. These results also identified new avenues for exploring the underlying mechanisms of oral cavity cancer. [Read more...](#)

34. Abnormal Cerebrovascular Activity, Perfusion, and Glymphatic Clearance in Lewy Body Diseases

31-05-2024 - National Library of Medicine

Cerebrovascular activity is not only crucial to optimal cerebral perfusion, but also plays an important role in the glymphatic clearance of interstitial waste, including α -synuclein. This highlights a need to evaluate how cerebrovascular activity is altered in Lewy body diseases. This review begins by discussing how vascular risk factors and cardiovascular autonomic dysfunction may serve as ... [Read more...](#)

35. Psychogenic Hyperphagia: Excessive Eating as Stereotypy in a Patient with Catatonia

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Catatonia is a complex syndrome with unique cognitive, psychomotor, and mood features. Mannerisms and stereotypies are catatonic signs that have been extensively observed and described in the literature, mostly in the context of movements or motor acts. Stereotypies are commonly described as repetitive psychomotor or verbal acts with the abnormality not inherent in the act but in its frequency. [Read more...](#)

36. Overexpression of low-density lipoprotein receptor prevents neurotoxic polarization of astrocytes via inhibiting NLRP3 inflammasome activation in experimental ischemic stroke

31-05-2024 - National Library of Medicine

JOURNAL/nrgr/04.03/01300535-202502000-00027/figure1/v/2024-05-28T214302Z/r/image-tiff Neurotoxic astrocytes are a promising therapeutic target for the attenuation of cerebral ischemia/reperfusion injury. Low-density lipoprotein receptor, a classic cholesterol regulatory receptor, has been found to inhibit NLR family pyrin domain containing protein 3 (NLRP3) inflammasome activation in neurons ... [Read more...](#)

37. Towards cascading genetic risk in Alzheimer's disease

31-05-2024 - National Library of Medicine

Alzheimer's disease typically progresses in stages, which have been defined by the presence of disease-specific biomarkers: Amyloid (A), Tau (T) and neurodegeneration (N). This progression of biomarkers has been condensed into the ATN framework, where each of the biomarkers can be either positive (+) or negative (-). Over the past decades genome wide association studies have implicated about ... [Read more...](#)

38. Localized Pantothenic Acid (Vitamin B5) Reductions Present Throughout the Dementia with Lewy Bodies Brain

31-05-2024 - National Library of Medicine

CONCLUSIONS: Pantothenic acid deficiency appears to be a shared mechanism of several neurodegenerative diseases, although differences in the localization of this dysregulation may contribute to the differing clinical pathways observed in these conditions. [Read more...](#)

39. 10-Year Cognitive Change in the Faroese Septuagenarian Cohort and Impact of Sociodemographic, Lifestyle, and Health Factors

31-05-2024 - National Library of Medicine

OBJECTIVES: To investigate cognitive change in multiple cognitive domains in a population-based cohort of 713 Faroese older adults. [Read more...](#)

40. S2VQ-VAE: Semi-Supervised Vector Quantised-Variational AutoEncoder for Automatic Evaluation of Trail Making Test

31-05-2024 - National Library of Medicine

CONCLUSIONS: In conclusion, the proposed deep representation learning method significantly enhances the cognitive diagnosis capabilities of behavior-based TMTs and streamlines large-scale community-based cognitive impairment screening while reducing the workload of professional healthcare staff. [Read more...](#)

41. The microbiota-gut-brain-immune interface in the pathogenesis of neuroinflammatory diseases: a narrative review of the emerging literature

31-05-2024 - National Library of Medicine

CONCLUSIONS AND RELEVANCE: While the research is still nascent, the microbiota-gut-brain-immune interface may be a missing link, which has hampered our progress on understanding, let alone preventing, managing, or putting into remission neurodegenerative diseases. Relationships must first be established in humans, as animal models have been shown to poorly translate to complex human ... [Read more...](#)

42. Heme Oxygenase-1 Gene (GT)_n Polymorphism Linked to Deep White Matter Hyperintensities, Not Periventricular Hyperintensities

31-05-2024 - National Library of Medicine

CONCLUSIONS: Short (GT)_n variants in the HO-1 gene may confer susceptibility to rather than protection from DWMHs, but not periventricular WMHs. [Read more...](#)

43. Natural history of adults with KBG syndrome: a physician-reported experience

31-05-2024 - National Library of Medicine

CONCLUSION: Our study sheds light on the long-term neurodevelopmental outcomes, seizures, behavioral and psychiatric features, and education, work, and living arrangements for adults with KBGS. [Read more...](#)

44. Anticipating Tomorrow: Tailoring Parkinson's Symptomatic Therapy Using Predictors of Outcome

31-05-2024 - National Library of Medicine

CONCLUSIONS: These recommendations provide clinicians with a framework for integrating future outcomes into patient-specific treatment choices. They are not prescriptive guidelines, but adaptable suggestions, which should be tailored to each individual. They are to be considered as a first step of a process that will continue to evolve as additional stakeholders provide new insights and as ... [Read more...](#)

45. Gamma-glutamyl transferase 5 overexpression in cerebrovascular endothelial cells improves brain pathology, cognition, and behavior in APP/PS1 mice

31-05-2024 - National Library of Medicine

JOURNAL/nrgr/04.03/01300535-202502000-00030/figure1/v/2024-05-28T214302Z/r/image-tiff In patients with Alzheimer's disease, gamma-glutamyl transferase 5 (GGT5) expression has been observed to be downregulated in cerebrovascular endothelial cells. However, the functional role of GGT5 in the development of Alzheimer's disease remains unclear. This study aimed to explore the effect of GGT5 on ... [Read more...](#)

46. The emerging role of nitric oxide in the synaptic dysfunction of vascular dementia

31-05-2024 - National Library of Medicine

With an increase in global aging, the number of people affected by cerebrovascular diseases is also increasing, and the incidence of vascular dementia-closely related to cerebrovascular risk-is increasing at an epidemic rate. However, few therapeutic options exist that can markedly improve the cognitive impairment and prognosis of vascular dementia patients. Similarly in Alzheimer's disease ... [Read more...](#)

47. Interictal Dysfunctions of Attention, Vigilance, and Executive Functions in Migraine and Their Reversal by Preventive Treatment: A longitudinal Controlled Study

31-05-2024 - National Library of Medicine

CONCLUSION: Migraine patients, compared to non-migraine controls, showed deficits in attention, vigilance, and executive functions during the interictal period, which improved with successful preventive treatment. Psychiatric comorbidities did not have a significant impact on cognitive dysfunctions. [Read more...](#)

48. Identification of pleiotropic and specific therapeutic targets for cardio-cerebral diseases: A large-scale proteome-wide mendelian randomization and colocalization study

31-05-2024 - National Library of Medicine

CONCLUSIONS: This study successfully identified important therapeutic targets for cardio-cerebral diseases, which benefits the development of preventive or therapeutic drugs. [Read more...](#)

49. Association of Loneliness with Functional Connectivity MRI, Amyloid-beta PET, and Tau PET Neuroimaging Markers of Vulnerability for Alzheimer's Disease

31-05-2024 - National Library of Medicine

CONCLUSIONS: In this cross-sectional study, there were no observable associations between loneliness and select fcMRI, A β PET, and tau PET neuroimaging markers of AD risk. These findings merit further investigation in prospective studies of community-based cohorts. [Read more...](#)

50. Technology and Care: Starting From Human-Centered Compassion

31-05-2024 - National Library of Medicine

The rapid development of technology in recent years has not only transformed everyday life but also profoundly impacted the fields of healthcare and caregiving. Approaches to care that are technology-based and human-centered may be used to provide care services that are more efficient, accurate, and personalized and that, ultimately, improve our quality of life and overall health. [Read more...](#)

51. Roles of Sleep Quality, Self-Efficacy, and Coping Style in the Frailty of Community-Dwelling Older Adults: A Cross-Sectional Study

31-05-2024 - National Library of Medicine

CONCLUSIONS: Poor sleep quality indirectly influences frailty by modifying self-efficacy. Effective coping strategies can help attenuate this association. [Read more...](#)

52. Neuroinflammatory markers at school age in preterm born children with neurodevelopmental impairments

31-05-2024 - National Library of Medicine

CONCLUSION: The inflammatory profile at school age in preterm children is different from that of adult controls. The immune modulating cytokines GM-CSF, Gal1 and TRAIL were higher in preterm children with impairment than control preterm children, suggesting that immune responses are altered in these children. No specific cluster of inflammatory markers could be identified. [Read more...](#)

53. Social Cognitive Predictors of Health Promotion Self-Efficacy Among Older Adults During the COVID-19 Pandemic

31-05-2024 - National Library of Medicine

CONCLUSION: Performance accomplishment experiences, verbal persuasion strategies, and affective states may be the target of interventions to modify health promotion self-efficacy among older adults, in environments that require physical and social distancing. [Read more...](#)

54. The Current Status and Trends of Research Related to Vestibular Disorders, Vertigo, and Cognitive Impairment in the Elderly Population: A Bibliometric Analysis

31-05-2024 - National Library of Medicine

Background: The vestibular system not only supports reflex function at the brainstem level, but is also associated with higher levels of cognitive function. Vertigo due to vestibular disorders may lead to or be associated with cognitive dysfunction. Patients with deficits of both vestibular as well as cognitive function may be at particularly high risk for events like falls or certain ... [Read more...](#)

55. Predictors and consequences of visual trajectories in Chinese older population: A growth mixture model

31-05-2024 - National Library of Medicine

CONCLUSIONS: Vision in older adults with ocular disease could potentially be improved. Having formal education, maintaining an appropriate BMI, engaging in exercise, and consuming fruit more frequently appear to be beneficial for the visual health of the elderly. Considering the negative impact of visual impairment experience on distal cognition, self-care ability, and depression symptoms, ... [Read more...](#)

56. Mental health status among COVID-19 patients survivors of critical illness in Saudi Arabia: A 6-month follow-up questionnaire study

31-05-2024 - National Library of Medicine

CONCLUSION: Six months after ICU discharge, 30% of patients who had COVID-19 demonstrated a HADS score that confirmed anxiety and depression. To compare the psychological status of patients following an ICU admission (with vs without COVID-19), further studies are warranted. [Read more...](#)

57. D-β-hydroxybutyrate stabilizes hippocampal CA3-CA1 circuit during acute insulin resistance

31-05-2024 - National Library of Medicine

The brain primarily relies on glycolysis for mitochondrial respiration but switches to alternative fuels such as ketone bodies (KBs) when less glucose is available. Neuronal KB uptake, which does not rely on glucose transporter 4 (GLUT4) or insulin, has shown promising clinical applicability in alleviating the neurological and cognitive effects of disorders with hypometabolic components. [Read more...](#)

58. 'Practice what you preach'. Perspectives on the involvement of people with dementia and carers in community-based dementia friendly initiatives, a qualitative study

31-05-2024 - National Library of Medicine

CONCLUSION: Central to perspectives on involving people with dementia and their carers is the emphasis on working relationally, differing from service-led and pre-structured patient and public involvement (PPI). Working relationally calls for organizational shifts aligned with a rights-based perspective to avoid tokenism, and promotion of user-led organizations with genuine partnerships. [Read more...](#)

59. Together in sickness and in health: Spillover of physical, mental, and cognitive health among older English couples

31-05-2024 - National Library of Medicine

Using data from eight waves of the English Longitudinal Study of Aging, we study the cross-domain and cross-spouse spillover of health among married adults aged 50 and above in England. We apply the system generalized method of moments to linear dynamic panel models for physical, mental, and cognitive health, controlling for individual heterogeneity and the influence of marriage market ... [Read more...](#)

60. Chronic stress induces Alzheimer's disease-like pathologies through DNA damage-Chk1-CIP2A signaling

31-05-2024 - National Library of Medicine

Stress is an important initiating factor in promoting Alzheimer's disease (AD) pathogenesis. However, the mechanism by which stress induces AD-like cognitive impairment remains to be clarified. Here, we demonstrate that DNA damage is increased in stress hormone Corticotropin-releasing factor (CRF)-treated cells and in brains of mice exposed to chronic restraint stress. [Read more...](#)

61. Memory and language risk assessment with Wada test in patients candidates for epilepsy surgery

30-05-2024 - National Library of Medicine

CONCLUSION: Wada test is a useful tool for surgical decision-making in patients with drug-resistant temporal lobe epilepsy. When considering cognitive risk, components such as memory dominance and functional reserve should be considered as protective factors for postsurgical cognitive function preservation in patients with left lesions. [Read more...](#)

62. Effect of Population-Level Blood Pressure Treatment Strategies on Cardiovascular and Cognitive Outcomes

30-05-2024 - National Library of Medicine

CONCLUSIONS: Tighter BP control likely benefits most individuals but is unlikely to reduce dementia prevalence and might even increase the number of older adults living with dementia. [Read more...](#)

63. Herding during different types of crises: The COVID-19 health crisis and Russia-Ukraine political crisis

30-05-2024 - National Library of Medicine

We analysed herding behaviour in the recent pandemic and conflict. We employed the cross-sectional dispersion of daily stock returns to estimate herding's intensity in the Saudi stock market. We conducted all analyses for the entire sample and four sub-samples. Additionally, we investigate the existence of the asymmetry in the investors' responses whether there are differences between up and ... [Read more...](#)

64. Case Report: Holistic dental care for a child with Hunter syndrome: Addressing dental ramifications, overcoming challenges, and enhancing quality of life

30-05-2024 - National Library of Medicine

Hunter syndrome (MPS II), an X-linked recessive lysosomal storage disorder, is a result of deficiency of the iduronate 2-sulfatase enzyme (IDS), leading to cognitive impairment, systemic organ involvement, and

increased dental problems. This case report describes the management of a child with Hunter syndrome who was referred to the Department of Paediatric and Preventive Dentistry for pain ... [Read more...](#)

65. Prevalence of detectable HIV-DNA and -RNA in cerebrospinal fluid of youth with perinatal HIV and impaired cognition on antiretroviral therapy

30-05-2024 - National Library of Medicine

CONCLUSIONS: We found a high proportion of AYAPHIV with neurocognitive impairment had CSF cells harboring HIV-DNA during long-term virologic suppression. This evidence of persistent HIV-DNA in CSF suggests that the CNS should be considered in treatment and cure studies. [Read more...](#)

66. Molecular Dynamics Simulation Study of the Self-Assembly of Tau-Derived PHF6 and Its Inhibition by Oleuropein Aglycone from Extra Virgin Olive Oil

30-05-2024 - National Library of Medicine

Alzheimer's disease (AD) and other tauopathies are neurodegenerative disorders associated with the amyloid deposition of the Tau protein in the brain. This amyloid formation may be inhibited by small molecules, which is recognized as one of the best therapeutic strategies to stop the progression of the disease. This work focuses on the small nucleating segment, ... [Read more...](#)

67. Role of PIM Kinase Inhibitor in the Treatment of Alzheimer's Disease

30-05-2024 - National Library of Medicine

Alzheimer's disease (AD), a neurodegenerative disorder, is the most prevalent form of senile dementia, causing progressive deterioration of cognition, behavior, and rational skills. Neuropathologically, AD is characterized by two hallmark proteinaceous aggregates: amyloid beta (A β) plaques and neurofibrillary tangles (NFTs) formed of hyperphosphorylated tau. A significant study has been done ... [Read more...](#)

68. Developments in the prediction of cognitive changes following deep brain stimulation in persons with Parkinson's disease

30-05-2024 - National Library of Medicine

INTRODUCTION: Deep brain stimulation (DBS) is an effective treatment for Parkinson's disease (PD) motor symptoms that improves function and quality of life in appropriately selected patients. Because mild to moderate cognitive declines can follow DBS and impact quality of life in a minority of patients, an important consideration involves the cognitive deficit and its prediction. [Read more...](#)

69. Gut microbiota composition links to variation in functional domains across psychiatric disorders

30-05-2024 - National Library of Medicine

CONCLUSION: Our findings demonstrate associations between the gut microbiota and the domains of functioning across patients and unaffected individuals, potentially mediated by immune-related processes. These results open avenues for microbiota-focused personalized interventions, considering psychiatric comorbidity. However, further research is warranted to establish causality and elucidate ... [Read more...](#)

70. Neonatal Hypoglycemia

30-05-2024 - National Library of Medicine

Neonatal hypoglycemia (NH) is broadly defined as a low plasma glucose concentration that elicits hypoglycemia-induced impaired brain function. To date, no universally accepted threshold (reference range) for plasma glucose levels in newborns has been published, as data consistently indicate that neurologic responses to hypoglycemia differ at various plasma glucose concentrations. [Read more...](#)

71. The effect of false cognitive feedback on subsequent cognitive task performance

30-05-2024 - National Library of Medicine

CONCLUSIONS: Our results indicate that the influence of false feedback on task performance is variable and may depend on factors such as the specific task or executive function assessed. In clinical work, it is

important to consider how patients may internalize feedback about their cognitive abilities, as the feedback, coupled with other factors such as level of insight, apathy, disinhibition, ... [Read more...](#)

72. The role of neuropsychology in the care of patients with functional neurological symptom disorder

30-05-2024 - National Library of Medicine

CONCLUSIONS: Patients with FNSD would benefit from increased involvement of neuropsychologists in their care. [Read more...](#)

73. Hepatotoxicity assessment of innovative nutritional supplements based on olive-oil formulations enriched with natural antioxidants

30-05-2024 - National Library of Medicine

INTRODUCTION: This study focuses on the assessment of extra virgin olive-oil and olive fruit-based formulations enriched with natural antioxidants as potential nutritional supplements for alleviating symptoms and long-term consequences of illnesses whose molecular pathophysiology is affected by oxidative stress and inflammation, such as Alzheimer's disease (AD). [Read more...](#)

74. Deep learning model for individualized trajectory prediction of clinical outcomes in mild cognitive impairment

30-05-2024 - National Library of Medicine

CONCLUSION: The proposed method provides effective and accurate means for predicting the progression of individuals within a specific period. This model could assist clinicians in identifying subjects at a higher risk of rapid cognitive decline by predicting future cognitive decline and MRI marker changes over time for patients with MCI. Future studies should validate and refine the proposed ... [Read more...](#)

75. The role of cognitive flexibility on higher level executive functions in mild cognitive impairment and healthy older adults

30-05-2024 - National Library of Medicine

BACKGROUND: Mild Cognitive Impairment (MCI) is a preclinical condition between healthy and pathological aging, which is characterized by impairments in executive functions (EFs), including cognitive flexibility. According to Diamond's model, cognitive flexibility is a core executive function, along with working memory and inhibition, but it requires the development of these last EFs to reach ... [Read more...](#)

76. The mediating role of trait emotional intelligence in the relationship between parental neglect and cognitive emotion regulation strategies

30-05-2024 - National Library of Medicine

CONCLUSIONS: The results may suggest that neglected children use all emotion regulation skills, including both adaptive and maladaptive, to cope with their negative emotional experience, but may use adaptive CERS more if their trait EI is higher. [Read more...](#)

77. Unshared Minds, Decaying Worlds: Towards a Pathology of Chronic Loneliness

30-05-2024 - National Library of Medicine

The moment when a person's actual relationships fall short of desired relationships is commonly identified as the etiological moment of chronic loneliness, which can lead to physical and psychological effects like depression, worse recovery from illness and increased mortality. But, this etiology fails to explain the nature and severe impact of loneliness. Here, ... [Read more...](#)

78. Prevalence and Management of Chronic Obstructive Pulmonary Disease in the Gulf Countries with a Focus on Inhaled Pharmacotherapy

30-05-2024 - National Library of Medicine

Background: Chronic obstructive pulmonary disease (COPD) is a preventable, progressive disease and the third leading cause of death worldwide. The epidemiological data of COPD from Gulf countries are very

limited, as it remains underdiagnosed and underestimated. Risk factors for COPD include tobacco cigarette smoking, water pipe smoking (Shisha), exposure to air pollutants, occupational dusts, ... [Read more...](#)

79. Atrial Fibrillation and Cognitive Disorders

30-05-2024 - National Library of Medicine

The prevalence of atrial fibrillation among older adults is increasing. Research has indicated that atrial fibrillation is linked to cognitive impairment disorders such as Alzheimer and vascular dementia, as well as Parkinson disease. Various mechanisms are believed to be shared between atrial fibrillation and cognitive impairment disorders. The specific pathologies and mechanisms of ... [Read more...](#)

80. Longitudinal trajectories of stress and positive aspects of dementia caregiving: Findings from the IDEAL programme

30-05-2024 - National Library of Medicine

OBJECTIVES: Understanding what influences changes over time in caregiver well-being is important for the development of effective support. This study explores differences in trajectories of caregiver stress and positive aspects of caregiving (PAC). [Read more...](#)

81. Melatonin mitigates cisplatin-induced cognitive impairment in rats and improves hippocampal dendritic spine density

30-05-2024 - National Library of Medicine

Cisplatin-induced cognitive impairment (chemobrain) affects a considerable percentage of cancer patients and has no established pharmacological treatment. Chemobrain can be associated with neuroinflammation and oxidative stress. Melatonin, a pineal hormone, is known to have antioxidant, anti-inflammatory and neuroprotective potential. In this study, we investigated cisplatin-induced cognitive ... [Read more...](#)

82. The effects of cannabis abstinence on cognition and resting state network activity in people with multiple sclerosis: A preliminary study

30-05-2024 - National Library of Medicine

We previously reported that people with multiple sclerosis (pwMS) who have been using cannabis frequently over many years can have significant cognitive improvements accompanied by concomitant task-specific changes in brain activation following 28 days of cannabis abstinence. We now hypothesize that the default Mode Network (DMN), known to modulate cognition, ... [Read more...](#)

83. Unraveling the cognitive implications among individuals with co-occurring chronic periodontitis and type 2 diabetes mellitus: a cross-sectional study

30-05-2024 - National Library of Medicine

CONCLUSIONS: The findings of this study suggest that the co-occurrence of chronic periodontitis and T2DM can have a detrimental effect on the cognitive abilities of an individual. Subsequent research should include longitudinal monitoring of the cognitive status in patients with concurrent conditions during treatment to gain deeper prognostic insights into the relationship between these ... [Read more...](#)

84. Dexamethasone induces developmental axon damage in the offspring hippocampus by activating miR-210-3p/miR-362-5p to target the aberrant expression of Sonic Hedgehog

30-05-2024 - National Library of Medicine

Given the extensive application of dexamethasone in both clinical settings and the livestock industry, human exposure to this drug can occur through various sources and pathways. Prior research has indicated that prenatal exposure to dexamethasone (PDE) heightens the risk of cognitive and emotional disorders in offspring. Axonal development impairment is a frequent pathological underpinning ... [Read more...](#)

85. Effect of 12-week head-down strong abdominal breathing on cognitive function in patients with stable chronic obstructive pulmonary disease: a single-centre randomised controlled trial protocol

30-05-2024 - National Library of Medicine

BACKGROUND: Patients with chronic obstructive pulmonary disease (COPD) often suffer from a combination of mild cognitive impairment (MCI) and a significant reduction in their quality of life. In the exercise programme of pulmonary rehabilitation (PR), pulmonary rehabilitation intervention is often carried out by enhancing respiratory function. Strong abdominal breathing is a kind of breathing ... [Read more...](#)

86. On executive functioning and childcare: The moderating role of parent-child interactions

30-05-2024 - National Library of Medicine

Childcare services are widely used by families and thereby exert an important influence on many young children. Yet, little research has examined whether childcare may impact the development of child executive functioning (EF), one of the pillars of cognitive development in early childhood. Furthermore, despite persisting hypotheses that childcare may be particularly beneficial for children ... [Read more...](#)

87. Exploring the in vitro stability of insulin degrading enzyme as a potential biomarker for neurocognitive disorders and Alzheimer's disease risk

30-05-2024 - National Library of Medicine

Insulin degrading enzyme (IDE) plays a critical role in degrading insulin and beta-forming proteins, implicating its significance as a biomarker in metabolic dysfunction and neurocognitive disorders, including Alzheimer's disease (AD). Understanding the impact of pre-analytic conditions of in vitro IDE levels is imperative for reliable biomarker assessment. This study explored the influence ... [Read more...](#)

88. Longitudinal Exploration of Cortical Brain Activity in Cognitive Fog: An EEG Study in Patients with and without Anosmia

30-05-2024 - National Library of Medicine

CONCLUSIONS: These findings provide a significant contribution to understanding the long-term effects of Covid-19 on the brain and have important implications for future interventions aimed at managing and treating brain fog symptoms. The longitudinal assessment of cortical brain activity helps highlight the persistent impact of the virus on the neurological health of Long-Covid patients. [Read more...](#)

89. Hypercholesterolemia and the Increased Risk of Vascular Dementia: a Cholesterol Perspective

30-05-2024 - National Library of Medicine

PURPOSE OF REVIEW: Vascular dementia (VaD) is the second most prevalent type of dementia after Alzheimer's disease. Hypercholesterolemia may increase the risk of dementia, but the association between cholesterol and cognitive function is very complex. From the perspective of peripheral and brain cholesterol, we review the relationship between hypercholesterolemia and increased risk of VaD and ... [Read more...](#)

90. Alcohol Use Disorder and Dementia: A Review

30-05-2024 - National Library of Medicine

PURPOSE: By 2040, 21.6% of Americans will be over age 65, and the population of those older than age 85 is estimated to reach 14.4 million. Although not causative, older age is a risk factor for dementia: every 5 years beyond age 65, the risk doubles approximately one-third of those older than age 85 are diagnosed with dementia. As current alcohol consumption among older adults is ... [Read more...](#)

91. Young-Onset Dementia Among Individuals With History of Preeclampsia

30-05-2024 - National Library of Medicine

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

92. The effect of a visual illusion and self-controlled practice on motor learning in children at risk for developmental coordination disorder

30-05-2024 - National Library of Medicine

Numerous efforts have been made to test the OPTIMAL theory of motor learning in healthy children and adult populations. However, only a small number of studies have tested this theory in children with cognitive-motor disorders, such as developmental coordination disorder (DCD). The present study aims to examine the individual and additive effects of a visual illusion and self-controlled ... [Read more...](#)

93. Determinants of cognitive dysfunction in adults with sickle cell related stroke or suspected neurological morbidity

30-05-2024 - National Library of Medicine

The prognosis of sickle cell disease (SCD) in adults is determined primarily by damage to targeted organs such as the brain. Cognitive dysfunction in SCD is a common chronic neurological manifestation but studies remain mostly descriptive in adults. The objective of this study was to better characterize the cognitive profile and the association between cognitive dysfunction and brain lesions. [Read more...](#)

94. Neonatal Hypoglycemia and Neurocognitive Function at School Age: A Prospective Cohort Study

30-05-2024 - National Library of Medicine

CONCLUSION: Exposure to neonatal hypoglycemia was not associated with risk of neurocognitive impairment at school-age in at-risk infants, but severe and recurrent episodes may have adverse impacts. [Read more...](#)

95. Trajectories of Purpose in Life Across Diagnosis of Alzheimer's Disease or Related Dementias in Older Adulthood

30-05-2024 - National Library of Medicine

Objectives: Sense of purpose serves as a psychological resource for late-life health. Limited research has examined how purpose changes across chronic illness diagnoses, including a diagnosis of Alzheimer's disease and related dementias (ADRD). **Method:** This study leverages data from the National Health and Aging Trends Study (NHATS N = 831) to establish trajectories of purpose across ADRD ... [Read more...](#)

96. Repetitive mild traumatic brain injury impairs norepinephrine system function and psychostimulant responsiveness

30-05-2024 - National Library of Medicine

Traumatic brain injury (TBI) is a complex pathophysiological process that results in a variety of neurotransmitter, behavioral, and cognitive deficits. The locus coeruleus-norepinephrine (LC-NE) system is a critical regulator of arousal levels and higher executive processes affected by TBI including attention, working memory, and decision making. LC-NE axon injury and impaired signaling ... [Read more...](#)

97. Rehabilitation therapy versus drug-only therapy in patients with multiple sclerosis

30-05-2024 - National Library of Medicine

CONCLUSION: The current study proves the importance of combining DT with RT in MS therapy with clear benefits in regaining muscle strength in the lower limbs, thus improving coordination and balance while walking and improving dexterity in the dominant hand. [Read more...](#)

98. Mapping 15-year depressive symptom transitions in late life: population-based cohort study

30-05-2024 - National Library of Medicine

CONCLUSIONS: Older people may present with heterogeneous depressive trajectories. Targeting the accumulation of somatic diseases and enhancing social interactions may be appropriate for both depression prevention and burden reduction, while promoting physical activity may primarily benefit recovery from depressive disorders. [Read more...](#)

99. Risk Factors and Clinical Significance of Ultra-Long-Term Microischemia After Intracranial Aneurysm Embolization

30-05-2024 - National Library of Medicine

CONCLUSION: Aneurysm size, Evans index > 0.3 , and the quantity of stents were independent risk factors for the occurrence of ultra-long-term microischemia after aneurysm embolization and provided good predictive performance. Cognitive dysfunction was closely associated with microischemia, with its severity increasing with an increase in the number of ischemic foci. [Read more...](#)

100. Sodium-fluorescein-guided awake surgery for cerebral metastases located in eloquent brain areas: technical notes and preliminary experiences

30-05-2024 - National Library of Medicine

CONCLUSION: Fluorescence-guided resection in AC for metastatic tumors in sensory, motor, and cognitive areas is a feasible, safe, and convenient technique that significantly increases GTR rates and shortens operative time compared to conventional white light surgery without fluorescence guidance. It also does not increase the incidence of postoperative complications. [Read more...](#)

[Back to Top](#)

Living well with dementia

1. Physical frailty intensifies the positive association of oral frailty with poor global cognitive function and executive function among older adults especially for females: a cross-sectional study

29-05-2024 - National Library of Medicine

CONCLUSIONS: Physical frailty intensifies the positive association of oral frailty with poor global cognitive function and executive function among older adults, particularly among females. It is ponderable to consider sex differences and facilitate the management of physical frailty when it comes to promoting cognitive health based on the perspective of oral health among older adults. [Read more...](#)

2. Gender differences in the association between physical activity and cognitive subdomains among elders with type 2 diabetes and mild cognitive impairment: a cross-sectional study

28-05-2024 - National Library of Medicine

CONCLUSION: In older individuals with T2D and MCI, the association between PA and cognitive subdomains differs between men and women. This discrepancy may impact the customisation of exercise recommendations. [Read more...](#)

3. The relationship and pathways between resting-state EEG, physical function, and cognitive function in older adults

27-05-2024 - National Library of Medicine

CONCLUSION: Higher physical function scores in older adults with cognitive impairment were associated with higher cognitive function scores. Left frontal theta and right temporal alpha₂, as key observed indicators, may mediate the relationship between physical function and cognitive function. It is suggested to implement personalized exercise interventions based on the specific physical ... [Read more...](#)

4. 'I secretly wish. . .' Caregivers' expression of wish for death of persons with severe dementia

27-05-2024 - National Library of Medicine

CONCLUSION: Caregivers' wish for PwSDs' death changed over time and was primarily driven by their perception of PwSDs' poor well-being and awareness of their illness being terminal, indicating a need for increased support in this challenging caregiving context. [Read more...](#)

5. The effects of cognitive leisure activities on frailty transitions in older adults in China: a CHARLS-Based longitudinal study

27-05-2024 - National Library of Medicine

CONCLUSIONS: Cognitive leisure activities were positively associated with the risk of frailty improvement in older adults, mainly when participating in multiple such activities. Older adults may be encouraged to participate in a wide variety of cognitive leisure activities to promote healthy aging. [Read more...](#)

6. Association between physical activity, peak expiratory flow, and cognitive function in aging: a cross-sectional analysis

26-05-2024 - National Library of Medicine

CONCLUSION: This study revealed significant associations between lower PEF, diminished physical activity, and increased cognitive deficits in elderly individuals. The results supported the hypothesis that pulmonary function may mediate the connection between activity and cognitive health, emphasizing the importance of respiratory health in cognitive aging. Recognizing these associations is ... [Read more...](#)

7. A process evaluation of the NIDUS-Professional dementia training intervention for UK homecare workers

25-05-2024 - National Library of Medicine

CONCLUSION: NIDUS-Professional was valued by HCWs. Agency management, culture and priorities were key barriers to implementation we discuss how to address these in a future trial. [Read more...](#)

8. Evaluating palliative care case conferences in primary care for patients with advanced non-malignant chronic conditions: a cluster-randomised controlled trial (KOPAL)

24-05-2024 - National Library of Medicine

CONCLUSIONS: The study did not show the hypothesised effect on hospitalisations and health-related quality of life. Future research should focus on refining this approach, with particular emphasis on optimising the timing of case conferences and implementing discussed changes to treatment plans, to improve collaboration between GPs and SPHC teams. [Read more...](#)

9. Chronic exercise effects on overall depression severity and distinct depressive symptoms in older adults: A protocol of a systematic and meta-analytic review

23-05-2024 - National Library of Medicine

CONCLUSION: The results of the proposed review are anticipated to have a substantial impact on research and clinical practice. On the one hand, the review's conclusions could form the foundation for developing evidence-based recommendations for individualized exercise programs that alleviate depression in older adults. On the other hand, by revealing research gaps, ... [Read more...](#)

10. Older people's perception of being frail - a qualitative exploration

23-05-2024 - National Library of Medicine

CONCLUSION: Our study provides insight into how older people perceive and understand the concept of frailty. Frailty is a concept that is difficult for patients to understand, with most associating the term with an extreme degree of physical and cognitive decline. Having a label of being "frail" was deemed to be negative and something to be avoided, suggesting the term needs to be used cautiously. [Read more...](#)

11. Evaluation of an exercise program incorporating an international cycling competition: a multimodal intervention model for physical, psychological, and social wellbeing in residential aged care

16-05-2024 - National Library of Medicine

CONCLUSIONS: Findings highlight a constellation of benefits across physical, psychological, and social domains of wellbeing and inform a model for innovative multidimensional programs in residential aged care. The benefits for residents with varying physical and cognitive abilities support the use of creative strategies that maximise inclusion and engagement for residents. [Read more...](#)

12. Physical activity and mortality in patients with dementia: 2009-2015 National Health Insurance Sharing Service data

15-05-2024 - National Library of Medicine

The study aimed to investigate the survival rate of patients with dementia according to their level of physical activity and body mass index (BMI). A total of 5,789 patients with dementia were retrieved from the 2009-2015 National Health Insurance Sharing Service databases. Survival analysis was used to calculate the hazard ratio (HR) for physical activity and BMI. [Read more...](#)

13. The bi-directional relationships between diversified leisure activity participation and cognitive function in older adults in China: separating between-person effects from within-person effects

13-05-2024 - National Library of Medicine

CONCLUSION: This study suggests that a reciprocal causality relationship between diversified leisure activity participation and cognitive function, indicating a "positive circle" that further promotes cognition over time. [Read more...](#)

14. An analysis of factors influencing cognitive dysfunction among older adults in Northwest China based on logistic regression and decision tree modelling

07-05-2024 - National Library of Medicine

CONCLUSIONS: Traditional risk factors (including BMI, literacy, and alcohol consumption) and potentially modifiable risk factors (including balance function, ability to care for oneself in daily life, and widowhood) have a significant impact on the increased risk of cognitive dysfunction in older adults in Northwest China. The use of decision tree models can help health care workers better ... [Read more...](#)

15. Short communication: Lifetime musical activity and resting-state functional connectivity in cognitive networks

02-05-2024 - National Library of Medicine

CONCLUSION: We show that playing a musical instrument during life relates to higher RSFC of the medial prefrontal cortex with distant brain regions involved in higher-order cognitive and motor processes. Preserved or enhanced functional connectivity could potentially contribute to better brain health and resilience in OA with a history in musical activity. [Read more...](#)

16. Effect of visual impairment on subjective cognitive decline in older adults: a cross-sectional study in China

30-04-2024 - National Library of Medicine

CONCLUSIONS: It was found that older adults experiencing visual impairments are at an elevated risk of developing SCD compared with their counterparts without such impairments. Additionally, visual impairment remains a significant risk factor for SCD in the elderly, even adjusting for potential biases arising from individual observable heterogeneity. [Read more...](#)

[Back to Top](#)

Mental health and ageing

1. Development and testing of a questionnaire on the expectations and experiences with wearing face masks in inpatient and day hospitals

31-05-2024 - National Library of Medicine

CONCLUSION: Based on the results, wearing a mask does not appear to negatively impact the success of psychotherapy from the patient's perspective. However, patient-specific characteristics also appear to play a role in this context. [Read more...](#)

2. Incarceration Exposure, Biological Aging, and Depression Symptoms in an African American Sample of Older Adults

31-05-2024 - National Library of Medicine

Objectives: The study draws upon perspectives on life-course stressors and health to assess whether lifetime incarceration exposure is a determinant of biological aging and self-reported depression. Methods: Using data from a sample of 460 African American participants (average age= 57) in the Family and Community Health Study, the study examined two epigenetic indices of biological aging, ... [Read more...](#)

3. Effectiveness of a peer-supported crisis intervention to reduce the proportion of compulsory admissions in acute psychiatric crisis interventions in an outreach and outpatient setting: study protocol for an exploratory cluster randomised trial combined with qualitative methods

30-05-2024 - National Library of Medicine

INTRODUCTION: Compulsory admissions are associated with feelings of fear, humiliation and powerlessness. The number of compulsory admissions in Germany and other high-income countries has increased in recent years. Peer support has been shown to increase the self-efficacy of individuals with mental health conditions in acute crises and to reduce the use of coercive measures in clinical settings. [Read more...](#)

4. Protocol for the Development and Analysis of the Oxford and Reading Cognitive Comorbidity, Frailty and Ageing Research Database-Electronic Patient Records (ORCHARD-EPR)

30-05-2024 - National Library of Medicine

BACKGROUND: Hospital electronic patient records (EPRs) offer the opportunity to exploit large-scale routinely acquired data at relatively low cost and without selection. EPRs provide considerably richer data, and in real-time, than retrospective administrative data sets in which clinical complexity is often poorly captured. With population ageing, a wide range of hospital specialties now ... [Read more...](#)

5. Non-linear relationship between serum cholesterol levels and cognitive change among older people in the preclinical and prodromal stages of dementia: a retrospective longitudinal study in Taiwan

30-05-2024 - National Library of Medicine

CONCLUSION: These findings could implicate that rigorously lowering cholesterol may not be suitable for the prevention of cognitive decline among older people, especially among individuals in preclinical or prodromal stages of dementia. [Read more...](#)

6. Propofol enhancement of slow wave sleep to target the nexus of geriatric depression and cognitive dysfunction: protocol for a phase I open label trial

30-05-2024 - National Library of Medicine

INTRODUCTION: Late-life treatment-resistant depression (LL-TRD) is common and increases risk for accelerated ageing and cognitive decline. Impaired sleep is common in LL-TRD and is a risk factor for cognitive decline. Slow wave sleep (SWS) has been implicated in key processes including synaptic plasticity and memory. A deficiency in SWS may be a core component of depression pathophysiology. [Read more...](#)

7. Prevalence and risk factors for dementia and mild cognitive impairment among older people in Southeast China: a community-based study

28-05-2024 - National Library of Medicine

CONCLUSIONS: This study estimated the prevalence and risk factors for dementia and MCI among individuals aged ≥ 65 years in Southeast China. These findings are crucial for preventing and managing dementia and MCI in China. [Read more...](#)

8. An in-person survey of the influence of the COVID-19 pandemic on physical function, functional capacity, cognitive function, and mental health among community-dwelling older adults in Japan from 2016 to 2022

24-05-2024 - National Library of Medicine

CONCLUSIONS: The changes in these functions between before and after the pandemic might be attributed to the diminished opportunities for the independent older individuals to go out and engage in activities. Although functional capacity did not change, lower-limb muscle strength is important for functional independence. This decline might influence the functional capacity of these individuals ... [Read more...](#)

9. Trajectories of cognitive function among people aged 45 years and older living with diabetes in China: Results from a nationally representative longitudinal study (2011~2018)

24-05-2024 - National Library of Medicine

CONCLUSIONS: We identified heterogeneous trajectories of cognitive function among middle-aged and older people living with diabetes in China. Socially vulnerable groups including females, rural residents, and those with low education were at a higher risk for unfavorable trajectories. In health programs aimed at preventing and mitigating cognitive decline in individuals with diabetes more ... [Read more...](#)

10. Modeling mortality prediction in older adults with dementia receiving COVID-19 vaccination

24-05-2024 - National Library of Medicine

CONCLUSIONS: COVID-19 vaccination strongly reduced poor outcomes in older adults with cognitive impairment. Predictive analytics can help identify highest-risk cases requiring targeted interventions. [Read more...](#)

11. Early-life circumstances and late life loneliness trajectories among Finnish older adults

24-05-2024 - National Library of Medicine

CONCLUSIONS: The findings suggest that some adverse early-life circumstances increase the odds of an unfavorable loneliness trajectory in later life. The results highlight the need to recognize the role of diverse life-course adversities in loneliness research and interventions. The study also underscores the importance of identifying individuals who are at risk of long-term and severe ... [Read more...](#)

12. Trends of use and characterisation of anti-dementia drugs users: a large multinational-network population-based study

24-05-2024 - National Library of Medicine

CONCLUSIONS: Treatment of dementia remains highly heterogeneous. Further consensus in the pharmacological management of patients living with dementia is urgently needed. [Read more...](#)

13. The impact of long-term care insurance on family care for older adults: The mediating role of intergenerational financial support

23-05-2024 - National Library of Medicine

Rapid population aging has been placing heavy tolls on Chinese family caregivers. Previous empirical evidence from multiple countries have shown that establishing national long-term care insurance was effective in reducing family care burdens. Utilizing data from the China Health and Retirement Longitudinal Study (CHARLS) wave 2011 to 2018, this study examined the effects of implementing the ... [Read more...](#)

14. Social Isolation and Loneliness in Older Adults

23-05-2024 - National Library of Medicine

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

15. Variation in benefit among patients with serious mental illness who receive integrated psychiatric and primary care

23-05-2024 - National Library of Medicine

CONCLUSIONS: There were benefits from integration of primary care and psychiatric care at all levels of increased risk, including those with extremely high risk above the 95th percentile. When developing integrated care programs, patients should be considered at all levels of risk, not only those who are the healthiest. [Read more...](#)

16. Brain health index as a predictor of possible vascular dementia in the Mexican health and aging study 2012-2015

23-05-2024 - National Library of Medicine

To determine the burden of disease among subjects at risk of developing stroke or dementia, brain health indexes (BHI) tend to rely on anatomical features. Recent definitions emphasize the need of a broader perspective that encompasses cardiovascular risk factors (CVRFS) and lifestyle components which can be considered partial contributors to optimal brain health. [Read more...](#)

17. Usefulness of assessment of the Clinical Frailty Scale and the Dementia Assessment Sheet for Community-based Integrated Care System 21-items at the time of initiation of maintenance hemodialysis in older patients with chronic kidney disease

23-05-2024 - National Library of Medicine

CONCLUSIONS: The CFS and the DASC-21 appeared to be a useful predictive tool of outcome and prognosis for older patients being initiated on hemodialysis. Assessment by the CFS or the DASC-21 might be useful for selecting the renal replacement therapy by shared decision-making and for advance care planning. [Read more...](#)

18. Prediction of Cognitive Impairment Risk among Older Adults: A Machine-Learning Based Comparative Study and Model Development

22-05-2024 - National Library of Medicine

Detecting cognitive decline early in the older adults is crucial for effective intervention. This study, part of the Ma'anshan Healthy Aging Cohort Study, examined 2,288 participants with normal cognitive function. Forty-two potential predictors, including demographics, chronic diseases, lifestyle factors, and baseline cognitive function, were selected. The dataset was divided into training, ... [Read more...](#)

19. Introducing a machine learning algorithm for delirium prediction-the Supporting SURgery with GEriatric Co-Management and AI project (SURGE-Ahead)

22-05-2024 - National Library of Medicine

CONCLUSION: We present a clinically useful and explainable ML model for POD prediction. The model will be deployed in the Supporting SURgery with GEriatric Co-Management and AI project. [Read more...](#)

20. Dementia Among Minority Populations: A Scoping Review of Meaning, Language, And Translation

22-05-2024 - National Library of Medicine

BACKGROUND: Dementia as a neurocognitive disorder is becoming increasingly common worldwide, and minority groups are more vulnerable than the general population. Many factors may contribute to their vulnerability such as misconceptions, language barriers, cultural factors, invalid assessment tools, lack of knowledge or assigning spiritual beliefs to dementia symptoms. [Read more...](#)

21. Association between chronic pain and dementia: a systematic review and meta-analysis

22-05-2024 - National Library of Medicine

CONCLUSION: Our study shows that people who suffered from CP are at an increased risk of developing dementia, regardless of gender, age, and dementia and CP subtypes. [Read more...](#)

22. Does living alone influence fall risk among Swiss older adults aged 60+? A pooled observational analysis of three RCTs on fall prevention

21-05-2024 - National Library of Medicine

CONCLUSIONS: Community-dwelling older adults living alone have a higher odds of becoming a faller. The increased odds is similar for men and women but accentuated with higher age. [Read more...](#)

23. Combined systematic screening for malnutrition and dysphagia in hospitalized older adults: a scoping review

21-05-2024 - National Library of Medicine

CONCLUSION: Most of the studies considered the prevalence and association of dysphagia and malnutrition with varying outcomes such as nutritional status, pneumonia, oral nutrition, and swallowing function. Only two studies had implemented multi-professional nutrition teams. [Read more...](#)

24. Characteristics of first-time users of the nursing small-scale multifunctional home care service: a pooled cross-sectional study using Japanese long-term care insurance claims data from 2012 to 2019

21-05-2024 - National Library of Medicine

CONCLUSIONS: Using individual data on nationwide LTCL, we described the characteristics of first-time users of NSMHC among those who died within 7.5 years from the first certification of care needs. Further studies are needed to investigate the effect of NSMHC use on user outcomes. [Read more...](#)

25. Lived experiences of mothers with postnatal anxiety: a qualitative phenomenology study from Pakistan

21-05-2024 - National Library of Medicine

CONCLUSION: Despite the high prevalence of postnatal anxiety in LMICs there is not any published evidence on exploring this phenomenon through in-depth research in Pakistan. Understanding the lived experiences will help health professionals to identify women at risk of developing postnatal anxiety and to develop effective culturally appropriate interventions for women with anxiety during this ... [Read more...](#)

26. Physical activity and functional social support in community-dwelling older adults: a scoping review

20-05-2024 - National Library of Medicine

CONCLUSIONS: While the evidence on the association between functional SOSU and PA is mixed, most studies show that there is a positive association. PA may also be a strategy for improving social contact and social integration. This study offers a comprehensive overview of measures for SOSU and PA and thereby informs future research and policy-making. [Read more...](#)

27. Stigma, isolation, and depression among older adults living with HIV in rural areas

20-05-2024 - National Library of Medicine

There is a growing population of ageing individuals living with acquired immunodeficiency syndrome (HIV). Older adults living with HIV often contend with intersecting stigmas including HIV stigma, ageism, and for some, homonegativity and/or racism. Although the HIV stigma literature is quite robust, research on the relationship between HIV stigma, social support, ... [Read more...](#)

28. A Visualization Tool to Study Dyadic Caregiving Health Profiles

20-05-2024 - National Library of Medicine

OBJECTIVES: Guided by a life course perspective and fundamental cause theory, this study aims to visualize co-trajectories of health between partners and examine how changes in one spouse's cognitive status can cohesively impact the health of the other spouse along three dimensions (functional, mental, and cognitive). [Read more...](#)

29. Cognition as mediator of pulmonary function and risk of sarcopenia among older adults

18-05-2024 - National Library of Medicine

CONCLUSIONS: Older adults with impaired lung function are more likely to develop sarcopenia. Nevertheless, cognition can explain only a small portion of this association. Thus, other potential pathways between lung function and sarcopenia must be elucidated. [Read more...](#)

30. Association between pain interference and motoric cognitive risk syndrome in older adults: a population-based cohort study

17-05-2024 - National Library of Medicine

CONCLUSIONS: Older adults with interfering pain had a higher risk for MCR versus those with non-interfering pain or without pain. Timely and adequate management of interfering pain may contribute to the prevention and treatment of MCR and its associated adverse outcomes. [Read more...](#)

31. An observational study protocol to capture, validate and characterise lucid episodes in people living with advanced dementia receiving hospice care

17-05-2024 - National Library of Medicine

INTRODUCTION: Lucid episodes (LEs) in advanced neurodegenerative disease, characterised by a transient recovery of abilities, have been reported across neurological conditions, including Alzheimer's disease and related dementias. Evidence on LEs in dementia is extremely limited and draws predominantly from retrospective case reports. Lucidity in dementia has received growing attention given ... [Read more...](#)

32. The epidemiology of major depression among adults in Norway: an observational study on the concurrence between population surveys and registry data - a NCDNOR project

16-05-2024 - National Library of Medicine

CONCLUSIONS: There was a strong association between scores on screening for major depression in the general population surveys and being recorded in central health registries. There was a low sensitivity of these registries. and there was some variation in how sensitive the central health registries were in picking up depression, especially for males and older people. [Read more...](#)

33. Clinical and healthcare use outcomes after cessation of long term opioid treatment due to prescriber workforce exit: quasi-experimental difference-in-differences study

16-05-2024 - National Library of Medicine

CONCLUSIONS: The loss of a prescriber was associated with increased occurrences of discontinuation of long term opioid treatment and transient increases in adverse outcomes, such as suicide attempts, but not other outcomes, such as overdoses. Long term opioid treatment discontinuation may be associated with a temporary period of adverse health impacts after accounting for unobserved confounding. [Read more...](#)

34. Social support in maintaining mental health and quality of life among community-dwelling older people with functional limitations in Malaysia: a population-based cross-sectional study

16-05-2024 - National Library of Medicine

CONCLUSION: The present study provides evidence that perceived social support relieves the influence of functional limitations on depressive symptoms and declining quality of life among older people. Therefore, it is imperative to establish a social support system to improve the overall well-being of older people. [Read more...](#)

35. Restore and Rebuild (R&R): a protocol for a phase 2, randomised control trial to compare R&R as a treatment for moral injury-related mental health difficulties in UK military veterans to treatment as usual

16-05-2024 - National Library of Medicine

BACKGROUND: Exposure to potentially morally injurious events is increasingly recognised as a concern across a range of occupational groups, including UK military veterans. Moral injury-related mental health

difficulties can be challenging for clinicians to treat and there is currently no validated treatment available for UK veterans. We developed Restore and Rebuild (R&R) as a treatment for ... [Read more...](#)

36. Knowledge, attitude and practice of poststroke depression among patients with poststroke depression and their family members in Heilongjiang Province, China: a cross-sectional study

15-05-2024 - National Library of Medicine

CONCLUSION: Patients and their family members had insufficient knowledge, positive attitude and moderate practice towards PSD. Retirement and low monthly income were associated with insufficient knowledge, while knowledge was associated with positive attitude and proactive practice. [Read more...](#)

37. Association of dietary and nutritional factors with cognitive decline, dementia, and depressive symptomatology in older individuals according to a neurogenesis-centred biological susceptibility to brain ageing

15-05-2024 - National Library of Medicine

Hippocampal neurogenesis (HN) occurs throughout the life course and is important for memory and mood. Declining with age, HN plays a pivotal role in cognitive decline (CD), dementia, and late-life depression, such that altered HN could represent a neurobiological susceptibility to these conditions. Pertinently, dietary patterns (e.g., Mediterranean diet) and/or individual nutrients (e.g. [Read more...](#)

38. Sleep Quality and Subjective Cognitive Decline among Older Adults: The Mediating Role of Anxiety/Depression and Worries

15-05-2024 - National Library of Medicine

CONCLUSIONS: Poorer sleep quality is associated with a higher rate of SCD among older adults, and a higher prevalence of anxiety/depression and worries mediate this relationship, suggesting possible mechanism pathways that lead to SCD. These factors may provide the basis for early, targeted interventions for older adults' mental health preservation and improved quality of life. [Read more...](#)

39. Cultural and co-designed principles for developing a Māori kaumātua housing village to address health and social wellbeing

15-05-2024 - National Library of Medicine

CONCLUSION: This case study illustrates several co-design and culturally-centred principles from a previously developed toolkit that supported the project. This case study demonstrates how one community enacted these principles to provide the ground for developing a housing project that meets the health and social wellbeing of kaumātua. [Read more...](#)

40. Patient-reported pain and physical health for acupuncture and chiropractic care delivered by Veterans Affairs versus community providers

15-05-2024 - National Library of Medicine

CONCLUSIONS: Acupuncture and chiropractic care were associated with modest improvements at six months, with no meaningful differences between VA and community providers. The choice to receive care from VA or community providers could be based on factors other than quality, like cost or convenience. [Read more...](#)

41. Nutrition for dementia prevention: a state of the art update for clinicians

15-05-2024 - National Library of Medicine

CONCLUSIONS: Appropriate nutrition represents an important factor to help facilitate healthy cognitive ageing and allay dementia risk. The information provided in this article can help clinicians provide informed opinions on appropriate nutritional strategies as part of mid-life Health Checks and other risk reduction initiatives. [Read more...](#)

42. Regular source of primary care and health services utilisation among Brazilian elderly with mental-physical multimorbidity

15-05-2024 - National Library of Medicine

CONCLUSION: Our findings demonstrate that RSPC can be an important component of care in elderly individuals with MP-MM because it was associated with lower occurrence of hospitalisation, mainly in those that have not a private plan of health. Longitudinal studies are necessary to confirm these findings. [Read more...](#)

43. The association between adherence to the EAT-Lancet diet and cognitive ageing

15-05-2024 - National Library of Medicine

CONCLUSION: We demonstrated that greater adherence to the EAT-Lancet diet is associated with better global cognitive functioning and slower cognitive decline among cognitively healthy older adults. Further research is needed to confirm these findings and assess the potential benefits of the EAT-Lancet diet for the ageing population in a broader context. [Read more...](#)

44. Diagnostic accuracy of cognitive screening tools validated for older adults in Iran: a systematic review and meta-analysis

14-05-2024 - National Library of Medicine

CONCLUSION: This review identifies key cognitive tools for dementia and MCI in Iranian older adults, tailored to educational levels for use in primary and specialized care. It emphasizes the need for further validation to enhance diagnostic precision across diverse settings, within a concise framework prioritizing brevity and accuracy for clinical applicability. [Read more...](#)

45. Mental-somatic multimorbidity in trajectories of cognitive function for middle-aged and older adults

14-05-2024 - National Library of Medicine

CONCLUSIONS: These findings show that depressive and stroke multimorbidity combinations have the greatest association with rapid cognitive declines and their prevention may postpone these declines, especially in socially disadvantaged and minoritized groups. [Read more...](#)

46. Diabetes mellitus in older persons with neurocognitive disorder: overtreatment prevalence and associated structural brain MRI findings

14-05-2024 - National Library of Medicine

CONCLUSION: A significant proportion of older patients with diabetes and neurocognitive disorder were subjected to excessively intensive treatment. The association identified with volume loss in several specific brain regions highlights the need to further investigate the potential cerebral damages associated with overtreatment and related hypoglycemia in larger sample. [Read more...](#)

47. Sarcopenia and sarcopenic obesity among older adults in the nordic countries: a scoping review

13-05-2024 - National Library of Medicine

CONCLUSION: The findings of our study revealed inadequate research on SO but an increasing trend in the number of studies on sarcopenia. However, most of the included studies had descriptive cross-sectional design, small sample size, and applied different diagnostic criteria. Therefore, larger well-designed cohort studies that adhere to uniform recent guidelines are required to capture a full ... [Read more...](#)

48. Nonpharmacological intervention therapies for dementia: potential break-even intervention price and savings for selected risk factors in the European healthcare system

13-05-2024 - National Library of Medicine

CONCLUSION: The model indicates the magnitude of the financial burden placed on EU healthcare systems due to the growth in the population prevalence of neurodegenerative diseases in the coming decades. Lifestyle interventions based on reducing the most common risk factors could serve as a prevention strategy to reduce the incidence of dementia with substantial cost-savings potential. [Read more...](#)

49. Effects of elastic band resistance training on the physical and mental health of elderly individuals: A mixed methods systematic review

13-05-2024 - National Library of Medicine

CONCLUSIONS: Despite the heterogeneity between studies, this review is the first systematic review to comprehensively evaluate the effectiveness of elastic band resistance training in older adults. It not only shows the influence of elastic band resistance training on the physical and mental health of the elderly, but also emphasizes the preference and obstacles of elderly individuals face. [Read more...](#)

50. Predictors of male loneliness across life stages: an Australian study of longitudinal data

10-05-2024 - National Library of Medicine

CONCLUSIONS: The results emphasise the need to consider age-specific factors and societal expectations in understanding and addressing loneliness amongst men. Additionally, the findings underscore the importance of raising awareness about the impact of societal norms and expectations on men's mental health. The results offer valuable insights for policymakers, healthcare providers, ... [Read more...](#)

51. The effects of co-designed physical activity interventions in older adults: A systematic review and meta-analysis

10-05-2024 - National Library of Medicine

CONCLUSION: This review did not demonstrate that co-designed PA interventions are more effective than standard care for increasing PA in older adults however, evidence was limited and of very low quality. Further well-designed trials are warranted to better understand the impacts of co-designed PA interventions and how to best implement them into practice. [Read more...](#)

52. Depression and associated factors among older people in Vietnam: Findings from a National Aging Survey

10-05-2024 - National Library of Medicine

CONCLUSION: Depression symptoms were prevalent among older people in Vietnam. Depression screening for older people should be included in primary care settings for early identification and treatment of depression. [Read more...](#)

53. Effect of digital game intervention on cognitive functions in older adults: a multiple baseline single case experimental design study

09-05-2024 - National Library of Medicine

CONCLUSIONS: The results suggest that the use of digital games may be effective for preserving and improving cognitive function among residents of nursing home. [Read more...](#)

54. Demographics, culture and participatory nature of multi-marathoning-An observational study highlighting issues with recommendations

08-05-2024 - National Library of Medicine

CONCLUSION: Recommendations include encouraging diversity at events, ensuring event directors have well-resourced health plans and promoting participants' proactive health management before and during their involvement in the sport. This study not only advances our understanding of multi-marathoning as a sport but also contributes to theoretical frameworks such as SDT and HBM. [Read more...](#)

55. Comparative studies of hair shaft components between healthy and diseased donors

08-05-2024 - National Library of Medicine

Globally, the rapid aging of the population is predicted to become even more severe in the second half of the 21st century. Thus, it is expected to establish a growing expectation for innovative, non-invasive health indicators and diagnostic methods to support disease prevention, care, and health promotion efforts. In this study, we aimed to establish a new health index and disease diagnosis ... [Read more...](#)

56. Facilitators, barriers and impacts to implementing dementia care training for staff in long-term care settings by using fully immersive virtual reality: a scoping review protocol

08-05-2024 - National Library of Medicine

INTRODUCTION: The rapid growth of the ageing population underscores the critical need for dementia care training among care providers. Innovative virtual reality (VR) technology has created opportunities to improve dementia care training. This scoping review will specifically focus on the barriers, facilitators and impacts of implementing fully immersive VR training for dementia care among ... [Read more...](#)

57. Cognitive and neural mechanisms of learning and interventions for improvement across the adult lifespan: A systematic review protocol

06-05-2024 - National Library of Medicine

BACKGROUND: There continues to be growing interest in the Science of Learning including identifying applications for findings from this work outside the laboratory to support learning. Presently, there exists a gap in our understanding of learning during healthy adulthood as well as effective ways in which that learning can be improved. Developing a more comprehensive understanding of ... [Read more...](#)

58. New horizon in improving ageing with improvisational theatre

06-05-2024 - National Library of Medicine

Cognitive decline, mental health and mindset factors can all affect the autonomy and well-being of older adults. As the number of older adults across the globe increases, interventions to improve well-being are urgently needed. Improvisational theatre (improv) and improv-based interventions are well-suited to address this need. Studies have shown that participation in improv-based ... [Read more...](#)

59. An exploratory study on material deprivation and loneliness among older adults in Hong Kong

06-05-2024 - National Library of Medicine

CONCLUSIONS: Our results suggested the need to alleviate the negative impact of material deprivation on loneliness by developing interventions focused on promoting neighborhood collective efficacy and social engagement, which could be aimed at building meaningful bonds among Chinese older adults in Hong Kong. [Read more...](#)

60. Through the eyes of grandparents: an in-depth exploration of the nexus between grandchild caring and the psychological well-being of older grandparents

05-05-2024 - National Library of Medicine

CONCLUSIONS: The Findings provide an intervention implication, particularly in the context of India's ageing population and their well-being by acknowledging the influence of household structure, caring intensity, motive behind grandchild caring, and working status on their psychological health. Understanding the importance of these key factors may help the policy maker and the individual to ... [Read more...](#)

61. The longitudinal associations between ambient air pollution exposure and dementia in the UK: results from the cognitive function and ageing study II and Wales

03-05-2024 - National Library of Medicine

CONCLUSIONS: In contrast to the literature, this study did not find clear associations between air pollution and dementia. Future research needs to investigate how methodological and contextual factors can affect evidence in this field and clarify the influence of air pollution exposure on cognitive health over the lifecourse. [Read more...](#)

62. Evaluation of an online arts-based platform to support the health and well-being of older adults during the COVID-19 pandemic: a cross-sectional survey

03-05-2024 - National Library of Medicine

CONCLUSIONS: Findings from this formative evaluation study identified key strengths and opportunities to improve the Art Your Service arts-based program, which can be used to help enhance the program's functioning and long-term sustainability potential. [Read more...](#)

63. The effect of outdoor activities on the medical expenditure of older people: multiple chain mediating effects of health benefits

03-05-2024 - National Library of Medicine

CONCLUSION: These findings contribute to understanding the relationship between outdoor activities, health, and medical expenditure in older people, guiding policy formulation and interventions. Encouraging and supporting older adults in outdoor activities can enhance their quality of life and alleviate medical resource strain. The study's conclusions can also inform health promotion measures ... [Read more...](#)

64. The association of depressive symptoms with handgrip strength and gait speed in community-dwelling older adults: data from the baseline phase of Birjand Longitudinal Aging Study

03-05-2024 - National Library of Medicine

CONCLUSIONS: Our findings suggest that older people residing in Birjand, Iran with a moderate HGS are less likely to suffer from depressive symptoms than those with lower HGS. [Read more...](#)

65. Quality of life and its associated factors in chronic kidney disease patients undergoing hemodialysis from a Peruvian city: A cross-sectional study

02-05-2024 - National Library of Medicine

CONCLUSION: Quality of life was affected, particularly in the realms of physical and emotional well-being. Furthermore, both the physical and mental health domains tend to show lower scores among women, older individuals, those lacking economic self-sufficiency, individuals with lower educational levels, and those with comorbidities. [Read more...](#)

66. Moving together - benefits of an online dance program on physical and mental health for older women: an exploratory mixed-method study

02-05-2024 - National Library of Medicine

CONCLUSIONS: The intervention improved several aspects of fitness in older women and improved the participants' perceptions of their own physical abilities and wellbeing. While most participants found the online intervention enjoyable, several participants missed the feedback from the instructors that naturally occurs with in-person instruction. [Read more...](#)

67. Community screening for dementia among older adults in China: a machine learning-based strategy

01-05-2024 - National Library of Medicine

CONCLUSIONS: The diagnostic models of CI applying ML, especially the MLP, were substantially more effective than the traditional AD8 scale with a score of ≥ 2 points. Our findings may provide new ideas for community dementia screening and to promote such screening while minimizing medical and health resources. [Read more...](#)

68. Development of Malaysian-MIND diet scores for prediction of mild cognitive impairment among older adults in Malaysia

01-05-2024 - National Library of Medicine

CONCLUSION: The development of the MY-MINDD scores for Malaysian older population revealed that a stronger adherence to this diet is linked to a reduced risk of MCI. Further substantiation of the MY-MINDD scores using more objective measures, such as neuroimaging approaches and other neuropsychological batteries, is necessary. [Read more...](#)

69. Attitudes towards seeking psychological help among community dwelling older adults enrolled in primary care in Chile

01-05-2024 - National Library of Medicine

CONCLUSION: Strategies to improve mental health literacy and social connection among older adults, could have an impact on factors that mediate the access to mental health care, such as attitudes towards seeking psychological help, among people who have a lower level of education or are at risk of social isolation. [Read more...](#)

70. POSITIVE: experiences of an intervention aiming for reversing and preventing frailty using a home monitoring and communication platform within primary health care

30-04-2024 - National Library of Medicine

CONCLUSION: Participation in a prevention program motivated activities and social interaction. Adding opportunities for participants to meet each other is suggested for improving the intervention in terms of increasing the social dimensions. Our findings conclude that despite difficulties with handling the technical tools for the home-monitoring and communication platform, ... [Read more...](#)

[Back to Top](#)

Physical activity and ageing

1. Outcomes of the LEAP feasibility trial-A low-threshold, exercise programme with protein supplementation to target frailty and poor physical functioning in people experiencing homelessness and addiction issues

31-05-2024 - National Library of Medicine

CONCLUSION: The feasibility of this programme was demonstrated. Overall, the programme was well received with higher retention rates in older participants, females, those more stably housed and those stable in addiction. A higher powered, more intense programme is needed to demonstrate programme effectiveness. [Read more...](#)

2. Mastering movement: A Cross-sectional investigation of motor competence in children and adolescents engaged in sports

30-05-2024 - National Library of Medicine

CONCLUSION: The whole group showed the 50th percentile of MC, but volleyball adolescents showed results below this reference. MC is intrinsically linked to an individual's motor experiences and motivations rather than depending directly on the specific practice of the sport. [Read more...](#)

3. Sustainability of exercise-induced benefits on circulating MicroRNAs and physical fitness in community-dwelling older adults: a randomized controlled trial with follow up

30-05-2024 - National Library of Medicine

CONCLUSION: An eight-week supervised MICT program promoted a higher level of physical activity up to 16 weeks post-training, which induces better cardiorespiratory fitness and resists decline in muscular measures. C-miRNA, especially c-miR-21, potentially mediates the training effect upon fitness. [Read more...](#)

4. Meningeal contrast enhancement in multiple sclerosis: Assessment of field strength, acquisition delay, and clinical relevance

29-05-2024 - National Library of Medicine

CONCLUSION: 7T MRI and a delay after contrast injection increased sensitivity for all forms of MCE. However, the lack of difference between groups for LME and its association with age calls into question its relevance as a biomarker of meningeal inflammation in MS. [Read more...](#)

5. Managing well-being in paediatric critical care: a multiperspective qualitative study of nurses' and allied health professionals' experiences

28-05-2024 - National Library of Medicine

CONCLUSIONS: Our findings align closely with the self-determination theory which stipulates autonomy, belonging and competence are required for well-being. Participants' accounts supported existing literature demonstrating the importance of empowering individuals to become self-aware, to be skilled in self-reflection and to be proactive in managing one's own well-being. [Read more...](#)

6. Homophily and social mixing in a small community: Implications for infectious disease transmission

28-05-2024 - National Library of Medicine

Community mixing patterns by sociodemographic traits can inform the risk of epidemic spread among groups, and the balance of in- and out-group mixing affects epidemic potential. Understanding mixing patterns can provide insight about potential transmission pathways throughout a community. We used a snowball sampling design to enroll people recently diagnosed with SARS-CoV-2 in an ethnically ... [Read more...](#)

7. Sports-related fractures in the geriatric population at a level I trauma center

27-05-2024 - National Library of Medicine

CONCLUSION: This epidemiological study describes geriatric population that continues to be involved in sports and is thus susceptible to fractures. The identification of the type and distribution of SRFs in geriatric patients provides useful information for determining risk factors and appropriate preventive measures that may reduce their incidence. [Read more...](#)

8. Benefits and Risks Associated With Statin Therapy for Primary Prevention in Old and Very Old Adults : Real-World Evidence From a Target Trial Emulation Study

27-05-2024 - National Library of Medicine

CONCLUSION: Reduction for CVDs after statin therapy were seen in patients aged 75 years or older without increasing risks for severe adverse effects. Of note, the benefits and safety of statin therapy were consistently found in adults aged 85 years or older. [Read more...](#)

9. Development of the Community-based complex Interventions to sustain Independence in Older People (CII-OP) typology: a qualitative synthesis of interventions in randomised controlled trials

25-05-2024 - National Library of Medicine

CONCLUSIONS: Our typology provides an empirical basis for service planning and evidence synthesis. We recommend better reporting about organisational aspects of interventions and usual care. [Read more...](#)

10. Unplanned transfer to acute care during inpatient geriatric rehabilitation: incidence, risk factors, and associated short-term outcomes

24-05-2024 - National Library of Medicine

CONCLUSION: A significant minority of patients experienced an unplanned transfer that potentially interfered with their rehabilitation and was associated with poorer outcomes. Men, patients with more severe disease and functional impairment appear at increased risk. Further studies should investigate whether interventions targeting these patients may prevent unplanned transfers and modify ... [Read more...](#)

11. Delayed center of mass feedback in elderly humans leads to greater muscle co-contraction and altered balance strategy under perturbed balance: A predictive musculoskeletal simulation study

24-05-2024 - National Library of Medicine

Falls are one of the leading causes of non-disease death and injury in the elderly, often due to delayed sensory neural feedback essential for balance. This delay, challenging to measure or manipulate in human studies, necessitates exploration through neuromusculoskeletal modeling to reveal its intricate effects on balance. In this study, we developed a novel three-way muscle feedback control ... [Read more...](#)

12. A cohort study of self-perception of ageing and all-cause mortality among older adults in China: a multiple mediators analysis

23-05-2024 - National Library of Medicine

CONCLUSIONS: In this cohort study, we found that high positive SPA was associated with decreased all-cause mortality directly, and indirectly through healthy lifestyle behaviors and social participation. These findings suggest that interventions targeted at promoting or maintaining positive SPA may contribute to healthy ageing among older adults in China. [Read more...](#)

13. Translation, validity and reliability of the persian version of the rapid assessment of physical activity questionnaire

23-05-2024 - National Library of Medicine

CONCLUSION: This study showed the Persian RAPA is a reliable and valid instrument for measuring physical activity among older individuals in both research and clinical contexts. [Read more...](#)

14. Targeting skeletal muscle health with exercise in people with type 1 diabetes: A protocol for HOMET1D, a prospective observational trial with matched controls

22-05-2024 - National Library of Medicine

INTRODUCTION: Individuals with type 1 diabetes (T1D) experience a complex set of alterations to skeletal muscle metabolic, neuromuscular, and vascular health collectively referred to as diabetic myopathy. While the full scope of diabetic myopathy is still being elucidated, evidence suggests that even when individuals with T1D are physically active, indices of myopathy still exist. [Read more...](#)

15. Associations between walking limitations and reported activity destinations among older adults

22-05-2024 - National Library of Medicine

In old age, walking difficulty may reduce opportunities to reach valued activity destinations. Walking modifications, e.g., slower pace or using a walking aid, may enable individuals to continue going where they wish, and hence postpone the consequences of the onset of walking difficulties. We studied visited activity destinations (type, distance) among older people with varying degrees of ... [Read more...](#)

16. Effectiveness of dance interventions for falls prevention in older adults: systematic review and meta-analysis

22-05-2024 - National Library of Medicine

CONCLUSIONS: There is very low certainty evidence for dance as an alternative to strength and balance training if the aim is to prevent falls. No robust evidence on the cost-effectiveness of dance interventions for the prevention of falls was found. [Read more...](#)

17. German population norms of the preference to solitude scale and its correlates

21-05-2024 - National Library of Medicine

CONCLUSION: Norm values provided in this study can be used as a benchmark for comparison with other countries and can guide further research dealing with preferences for solitude. We demonstrated the importance of several sociodemographic factors (e.g., marital status), lifestyle-related factors (e.g., sports activity), and health-related factors (e.g., depressive symptoms) for the preference ... [Read more...](#)

18. Metabolic equivalents intensity thresholds for physical activity classification in older adults

21-05-2024 - National Library of Medicine

CONCLUSIONS: None of the derived OATs were concurrently similar to the CTs, suggesting that fitness-specific METs intensity thresholds adapted to the METs derivation approach should be used in older adults. [Read more...](#)

19. Development and internal validation of a clinical prediction model for osteopenia in Chinese middle-aged and elderly men: a prospective cohort study

20-05-2024 - National Library of Medicine

CONCLUSIONS: Our study provides a novel nomogram and a web calculator that can effectively predict the 7-year incidence risk of osteopenia in Chinese middle-aged and elderly men. It is convenient for clinicians to prevent fragility fractures in the male population. [Read more...](#)

20. Association of menopausal status with body composition and anthropometric indices in Korean women

20-05-2024 - National Library of Medicine

CONCLUSION: Most of the anthropometric indices and body composition indices were not associated with menopausal status, but total body water and skeletal muscle mass were significantly lower in postmenopausal women than in premenopausal women. [Read more...](#)

21. Comparing the effects of aquatic-based exercise and land-based exercise on balance in older adults: a systematic review and meta-analysis

19-05-2024 - National Library of Medicine

CONCLUSIONS: Although this was influenced by participant health status, transfer effects, sample size, and other factors, AE offers better benefits than LE for improving balance function in older adults. [Read more...](#)

22. Longitudinal association of health behaviors and health-related quality of life with military spouse readiness

18-05-2024 - National Library of Medicine

CONCLUSIONS: The results show spouse health behaviors are directly and indirectly (through HRQOL) associated with readiness indicators. This suggests that assessments of modifiable health behaviors (e.g., insomnia symptoms) and mental and physical HRQOL are important indicators of readiness among military spouses and should be used to inform future programs designed to improve population health. [Read more...](#)

23. Living in urban or rural environments affect the sleep quality of the elderly in Bushehr (Southern Iran): emphasizing the active and inactive of the elderly

17-05-2024 - National Library of Medicine

CONCLUSION: Based on the findings, it can be concluded that the way of life (being active) as well as the living environment can affect the sleep quality of elderly people, so that active elderly people and also elderly people living in urban environments had better sleep quality. [Read more...](#)

24. Design of health information management model for elderly care using an advanced higher-order hybrid clustering algorithm from the perspective of sports and medicine integration

17-05-2024 - National Library of Medicine

In the context of integrating sports and medicine domains, the urgent resolution of elderly health supervision requires effective data clustering algorithms. This paper introduces a novel higher-order hybrid clustering algorithm that combines density values and the particle swarm optimization (PSO) algorithm. Initially, the traditional PSO algorithm is enhanced by integrating the Global ... [Read more...](#)

25. Correction: Defining and reporting exercise intensity in interventions for older adults: a modified Delphi process

16-05-2024 - National Library of Medicine

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

26. The effect of visual sensory interference during multitask obstacle crossing in younger and older adults

16-05-2024 - National Library of Medicine

When older adults step over obstacles during multitasking, their performance is impaired the impairment results from central and/or sensory interference. The purpose was to determine if sensory interference alters performance under low levels of cognitive, temporal, and gait demand, and if the change in performance is different for younger versus older adults. [Read more...](#)

27. Mapping sedentary behaviour (MAPS-B) in winter and spring using wearable sensors, indoor positioning systems, and diaries in older adults who are pre-frail and frail: A feasibility longitudinal study

16-05-2024 - National Library of Medicine

Older adults who are frail are likely to be sedentary. Prior interventions to reduce sedentary time in older adults have not been effective as there is little research about the context of sedentary behaviour (posture, location, purpose, social environment). Moreover, there is limited evidence on feasible measures to assess context of sedentary behaviour in older adults. [Read more...](#)

28. Nonlinear modeling of oral glucose tolerance test response to evaluate associations with aging outcomes

16-05-2024 - National Library of Medicine

As people age, their ability to maintain homeostasis in response to stressors diminishes. Physical frailty, a syndrome characterized by loss of resilience to stressors, is thought to emerge due to dysregulation of and breakdowns in communication among key physiological systems. Dynamical systems modeling of these physiological systems aims to model the underlying processes that govern ... [Read more...](#)

29. Muscle Psn gene combined with exercise contribute to healthy aging of skeletal muscle and lifespan by adaptively regulating Sirt1/PGC-1alpha and arm pathway

16-05-2024 - National Library of Medicine

The Presenilin (Psn) gene is closely related to aging, but it is still unclear the role of Psn genes in skeletal muscle. Here, the Psn-UAS/Mhc-GAL4 system in *Drosophila* was used to regulate muscle Psn overexpression(MPO) and muscle Psn knockdown(MPK). *Drosophila* were subjected to endurance exercise from 4 weeks to 5 weeks old. The results showed that MPO and exercise significantly increased ... [Read more...](#)

30. Impact of increased protein intake in older adults: a 12-week double-blind randomised controlled trial

15-05-2024 - National Library of Medicine

CONCLUSIONS: In a population of older adults, increasing protein intake by 20 g daily for 12 weeks (whether plant-based or dairy-based) did not result in significant differences in muscle function, body composition, metabolic health, sleep quality or quality of life, compared with the low protein group. [Read more...](#)

31. An experimental study on the influence of healthy physical education curriculum model on sports ability of Chinese senior high school students

14-05-2024 - National Library of Medicine

In recent years, the growing incidence of health issues among Chinese students, including obesity, diabetes, and other chronic diseases, has been attributed to a sedentary lifestyle, lack of physical activity, and unhealthy eating habits. Physical education (PE) classes play a crucial role in promoting physical activity and fostering healthy lifestyles among Chinese students. [Read more...](#)

32. Frailty and depressive symptoms in older kidney transplant recipients: opportunities for collaboration between transplant nephrologists and geriatricians

13-05-2024 - National Library of Medicine

CONCLUSION: There is a strong association between frailty and depression in KTRs aged 70 years and older. Targeted detection has opened up a new avenue for collaboration between geriatricians and transplant nephrologists. [Read more...](#)

33. Associations of Testosterone and Related Hormones With All-Cause and Cardiovascular Mortality and Incident Cardiovascular Disease in Men : Individual Participant Data Meta-analyses

13-05-2024 - National Library of Medicine

CONCLUSION: Men with low testosterone, high LH, or very low estradiol concentrations had increased all-cause mortality. SHBG concentration was positively associated and DHT concentration was nonlinearly associated with all-cause and CVD mortality. [Read more...](#)

34. A fluctuating intensity of care: A qualitative study on the experiences of informal caregivers of patients with critical limb-threatening ischemia

13-05-2024 - National Library of Medicine

Informal caregivers play a significant role in providing care for older, often vulnerable, patients, and supporting them as they live with chronic diseases. Due to the rising prevalence of older vascular patients and their use of healthcare, the role of their informal caregivers will become more important. However, little is known about the experiences of informal caregivers of patients with ... [Read more...](#)

35. Validation of physical activity levels from shank-placed Axivity AX6 accelerometers in older adults

13-05-2024 - National Library of Medicine

This cross-sectional study aimed to identify and validate cut-points for measuring physical activity using Axivity AX6 accelerometers positioned at the shank in older adults. Free-living physical activity was assessed in 35 adults aged 55 and older, where each participant wore a shank-mounted Axivity and a waist-mounted ActiGraph simultaneously for 72 hours. Optimized cut-points for each ... [Read more...](#)

36. Cross-cultural adaption, validity, and reliability of the Japanese version of the Central Aspects of Pain in the Knee (CAP-Knee-J) questionnaire in patients with knee pain: a validation study

10-05-2024 - National Library of Medicine

CONCLUSIONS: CAP-Knee-J is a reliable and valid questionnaire for assessing central pain mechanisms specific to knee pain in older Japanese individuals, with moderate correlations with the CSI and weak with the PCS, thus indicating construct validity. This study supports the development of effective knee pain treatments and prognosis predictions. [Read more...](#)

37. Quality of plant-based diets and frailty incidence: a prospective analysis of UK biobank participants

10-05-2024 - National Library of Medicine

CONCLUSIONS: In British middle-age and older adults, greater adherence to the hPDI was associated with lower risk of frailty, whereas greater adherence to the uPDI was associated with higher risk. [Read more...](#)

38. Trends in falls among older adults before and during the COVID-19 pandemic in Ontario, Canada: A retrospective observational study

10-05-2024 - National Library of Medicine

CONCLUSIONS: Following an abrupt decrease in hospitalizations and emergency department visits immediately following the onset of the pandemic, fall-related hospitalizations and emergency department visits have been increasing steadily and are approaching pre-pandemic levels. Further research exploring the factors contributing to these trends may inform future policies for public health ... [Read more...](#)

39. Comparing preferences to evaluations of barrier self-efficacy for two strength training programs in US older adults

09-05-2024 - National Library of Medicine

CONCLUSION: Older adults reported preferring and having more self-efficacy for a brief compared to a traditional strength training program. Differences in self-efficacy ratings between the two strength training programs were large. Preferences were often not congruent with ratings of self-efficacy. [Read more...](#)

40. First Decade of Supportive Services for Veteran Families Program and Homelessness, 2012-2022

08-05-2024 - National Library of Medicine

As homelessness remains an urgent public health crisis in the United States, specific programs in the US Department of Veterans Affairs (VA) system may serve as a roadmap for addressing it. We examine lessons learned from the first decade (2012-2022) of the Supportive Services for Veteran Families (SSVF) program, a cornerstone in the VA continuum of homeless services aimed at both preventing ... [Read more...](#)

41. E-PROOF: E-intervention for protein intake and resistance training to optimize function: A study protocol

08-05-2024 - National Library of Medicine

BACKGROUND: Accounting for more than 60% of cancer survivors, older (≥ 65 years) cancer survivors have a 2- to 5-fold risk of physical function impairment, compared to cancer-free peers. One strategy to improve physical function is dietary and resistance training interventions, which improve muscle strength and mass by stimulating muscle protein synthesis. The E-PROOF (E-intervention for ... [Read more...](#)

42. A within-subject examination of grandparents' physical activity and sedentary behavior levels in the presence or absence of grandchild care provision

07-05-2024 - National Library of Medicine

CONCLUSIONS: The higher percentage of time of LIPA and lower percentage of time spent on SB during a care day and care moment compared to a non-care day and non-care moment, highlight the positive impact of grandchild care provision on grandparents' activity levels, potentially improving other health-related outcomes. Furthermore, grandparents seem to compensate for their lower MVPA levels ... [Read more...](#)

43. Effects of integrated intrinsic foot muscle exercise with foot core training device on balance and body composition among community-dwelling adults aged 60 and above

07-05-2024 - National Library of Medicine

CONCLUSIONS: Integrated intrinsic foot muscle exercise with a three-dimensional printing foot core training device may improve balance and body composition in adults aged 60 and above. [Read more...](#)

44. Combining enhanced spectral resolution of EMG and a deep learning approach for knee pathology diagnosis

07-05-2024 - National Library of Medicine

Knee osteoarthritis (OA) is a prevalent, debilitating joint condition primarily affecting the elderly. This investigation aims to develop an electromyography (EMG)-based method for diagnosing knee pathologies. EMG signals of the muscles surrounding the knee joint were examined and recorded. The principal components of the proposed method were preprocessing, high-order spectral analysis (HOSA), ... [Read more...](#)

45. A feasibility study on preoperative carbohydrate loading in older patients undergoing hip fracture surgery

06-05-2024 - National Library of Medicine

CONCLUSION: The implementation of preoperative carbohydrate loading was found to be feasible preoperatively in hip fracture surgeries but requires careful coordination among multidisciplinary teams. An

adequately powered randomized controlled study is needed to examine the full benefits of preoperative carbohydrate loading in this group of patients. [Read more...](#)

46. Sarcopenia prevalence using handgrip strength or chair stand performance in adults living with type 2 diabetes mellitus

06-05-2024 - National Library of Medicine

CONCLUSIONS: Higher levels of adiposity may impact CST performance, but not HGS, resulting in a higher prevalence of sarcopenia in adults with type 2 diabetes mellitus. Consideration should be paid to the most appropriate measure of muscle function in this population. [Read more...](#)

47. Correction: Consideration of body mass index (BMI) in the association between hand grip strength and hypertension: Korean Longitudinal Study of Ageing (KLoSA)

01-05-2024 - National Library of Medicine

[This corrects the article DOI: 10.1371/journal.pone.0241360.]. [Read more...](#)

48. Role of virtual reality in examining the effect of fear of falling (FOF) on postural stability in individuals without and with Parkinson's disease in Egypt: a mixed-methods feasibility study protocol

01-05-2024 - National Library of Medicine

BACKGROUND: Falls are common in older people and individuals with neurological conditions. Parkinson's disease (PD) is known for postural instability causing mobility disabilities, falls and reduced quality of life. The fear of falling (FOF), a natural response to unstable balance, can worsen postural control problems. Evaluating FOF relies largely on affected persons' subjective accounts due ... [Read more...](#)

49. Social inequality in prevalence of NCD risk factors: a cross-sectional analysis from the population-based Tromso Study 2015-2016

30-04-2024 - National Library of Medicine

CONCLUSION: We found statistically significant educational gradients in women and men for all WHO-established leading NCD risk factors within a Nordic middle-aged to older general population. The prevalence of all risk factors increased at lower educational levels, except for harmful alcohol use, which increased at higher educational levels. [Read more...](#)

50. Reverse total shoulder replacement versus anatomical total shoulder replacement for osteoarthritis: population based cohort study using data from the National Joint Registry and Hospital Episode Statistics for England

30-04-2024 - National Library of Medicine

CONCLUSIONS: This study's findings provide reassurance that RTSR is an acceptable alternative to TSR for patients aged 60 years or older with osteoarthritis and intact rotator cuff tendons. Despite a significant difference in the risk profiles of revision surgery over time, no statistically significant and clinically important differences between RTSR and TSR were found in terms of long term ... [Read more...](#)

51. Patterns of sedentary behavior among older women with urinary incontinence and urinary symptoms: a scoping review

30-04-2024 - National Library of Medicine

CONCLUSION: Our findings suggest a potential relationship between sedentary behavior and UI in older women, but the causality of the relationship remains unclear. To further inform the clinical role of sedentary behavior in the context of UI, a greater number of rigorous studies with a prospective study design is urgently needed. [Read more...](#)

[Back to Top](#)

Employment, volunteering and ageing

1. Primary health care challenges: insights from older people with multimorbidity in Malawi - a qualitative study

29-05-2024 - National Library of Medicine

CONCLUSION: This research highlights the impact of various factors on older people's access to and use of PHC services. A comprehensive understanding of the barriers, facilitators, and specific needs of older people is essential for developing tailored services that effectively address their unique challenges and preferences. The study underscores the necessity of community-based approaches ... [Read more...](#)

2. Moral distress among physicians in Norway: a longitudinal study

28-05-2024 - National Library of Medicine

CONCLUSION: In 2004 and 2021 physicians' moral distress related to scarcity of time or unfair distribution of resources was high. Moral distress associated with resource scarcity and acting against one's conscience decreased, which might indicate improvements in the healthcare system. On the other hand, it might suggest that physicians have reduced their ideals or expectations or are morally ... [Read more...](#)

3. Trajectories of medical care expenditure in the last year of life associated with long-term care utilization in frail older adults: A retrospective cohort study

28-05-2024 - National Library of Medicine

CONCLUSIONS: These findings may facilitate the integration of medical and long-term care models at the end of life in frail older adults. [Read more...](#)

4. Community-based person-centred integrated care (PIC) networks for healthy ageing in place: a scoping review protocol

28-05-2024 - National Library of Medicine

INTRODUCTION: The economic case for preventive care delivered in or near citizens' homes is strong, and there is growing evidence of the role of local-level support in supporting people's health and well-being as they age. However, effective and consistent delivery of person-centred integrated care (PIC) at the community level remains elusive. Previous systematic reviews have focused on ... [Read more...](#)

5. Exploring the association between Frailty Index and low back pain in middle-aged and older Chinese adults: a cross-sectional analysis of data from the China Health and Retirement Longitudinal Study (CHARLS)

27-05-2024 - National Library of Medicine

CONCLUSIONS: The findings suggest a complex relationship between frailty and LBP, highlighting the need for early screening and tailored interventions to manage LBP in this demographic. Further research is necessary to understand the mechanisms of this association and to validate the findings through longitudinal studies. [Read more...](#)

6. Socio-demographic predictors of not having private dental insurance coverage: machine-learning algorithms may help identify the disadvantaged

23-05-2024 - National Library of Medicine

CONCLUSION: In the future, government-funded programs can incorporate these identified risk indicators when determining eligible populations for publicly funded dental programs. Understanding these attributes is critical for developing targeted and effective interventions, ensuring equitable access to dental care for Canadians. [Read more...](#)

7. Synergistic effects of cognitive frailty and comorbidities on disability: a community-based longitudinal study

22-05-2024 - National Library of Medicine

CONCLUSION: These findings highlight the synergism between the co-existence of CF and comorbidity, including OA, HD, DM, and depressive symptoms, on disability in older adults. Screening, assessing, and

managing comorbidities, especially OA, HD, DM and depressive symptoms, when managing older adults with CF are crucial for reducing the risk of or preventing the development of disability. [Read more...](#)

8. Protocol for a pragmatic randomised controlled feasibility study of MS WorkSmart: an online intervention for Australians with MS who are employed

21-05-2024 - National Library of Medicine

INTRODUCTION: Multiple sclerosis (MS) causes a wide variety of symptoms. Loss of income due to sickness and early retirement comprise one-third of the total cost of MS in Australia. An intervention that maximises work productivity and keeps people with MS in the workforce for longer could provide a large societal cost saving and improve quality of life. The aim is to test the feasibility of ... [Read more...](#)

9. Goal setting in later life: an international comparison of older adults' defined goals

21-05-2024 - National Library of Medicine

CONCLUSIONS: This study supports previous research that demonstrates that older adults can and do set personal goals that are wide ranging. These findings support the need for health professionals to consider different methods for elucidating this important information from older adults that builds rapport and focuses on aspects viewed as more important by the older adult and therefore ... [Read more...](#)

10. An assessment of the direct and indirect costs of breast cancer treatment in leading cancer hospitals in Ghana

21-05-2024 - National Library of Medicine

CONCLUSIONS: The cost of breast cancer treatment poses a significant burden on patients and their families. There is a need for increased public funding for breast cancer treatment to reduce the huge economic burden its treatment poses for patients and their families. [Read more...](#)

11. Prevalence, perceptions and associated factors of health insurance enrollment among older persons in selected cash grant communities in Ghana: a cross-sectional mixed method

18-05-2024 - National Library of Medicine

CONCLUSION: Health insurance enrollment among older persons in cash grant communities is still not universal. Addressing identified challenges and integrating the views of older persons into the programme have positive implications for securing universal health coverage by 2030. [Read more...](#)

12. Factors associated with community volunteering among adults over the age of 50 in Malaysia

16-05-2024 - National Library of Medicine

CONCLUSION: Recognising various factors towards community volunteering should be addressed by policymakers and volunteer organisations to increase volunteer participation from potential adults over the age of 50 in promoting healthy and active ageing. [Read more...](#)

13. Associations of appendicular lean mass and abdominal adiposity with insulin resistance in older adults: A cross-sectional study

16-05-2024 - National Library of Medicine

Loss of lean muscle mass and accumulation of adipose tissue are changes associated with aging. Previous studies have documented various components of body composition as predictors for insulin resistance. The objective of this study was to investigate whether components of body composition-appendicular lean mass (ALM) and/or abdominal fat mass (AFM)-correlate with insulin resistance in older ... [Read more...](#)

14. Direct and indirect effects of adiposity on markers of autonomic nervous system activity in older adults

16-05-2024 - National Library of Medicine

Several cardiovascular disease (CVD) risk factors (e.g., hypertension, poor glycemic control) can affect and be affected by autonomic nervous system (ANS) activity. Since excess adiposity can influence CVD development through its effect on hypertension and diabetes mellitus, it is important to determine how adiposity and altered ANS activity are related. The present study employed structural ... [Read more...](#)

15. Changing risk factors for developing SARS-CoV-2 infection from Delta to Omicron

15-05-2024 - National Library of Medicine

CONCLUSION: Relevance of some risk factors to likelihood of testing positive for SARS-CoV-2 may relate to reinfection risk, variant infectiousness and status of social distancing regulations. [Read more...](#)

16. Examining dynamic developmental trends: the interrelationship between age-friendly environments and healthy aging in the Chinese population-evidence from China Health and Retirement Longitudinal Study, 2011-2018

15-05-2024 - National Library of Medicine

CONCLUSION: Firstly, individuals with high levels of healthy aging are more inclined to actively participate in the development of appropriate AFE compared to those with low levels of healthy aging. Furthermore, by encouraging and guiding individuals to engage in activities that contribute to building appropriate AFE, can elevate their AFE levels beyond the previous average level, ... [Read more...](#)

17. Health-state utility of patients with HER2-positive breast cancer in Vietnam: A multicenter cross-sectional study

14-05-2024 - National Library of Medicine

CONCLUSIONS: Our findings showed a significant decrement in utility scores among metastatic breast cancer patients. Patients' health-state utility differed by their demographic characteristics (age, education level, and income) and clinical characteristics (stage of cancer and distress). Their utility scores may support further cost-effectiveness analysis in Vietnam. [Read more...](#)

18. Is refractive error a factor affecting scoliosis?

13-05-2024 - National Library of Medicine

CONCLUSIONS: Refractive errors did not correlate with the development of scoliosis. However, BMI, living in rural areas and older age did correlate with the development of scoliosis. [Read more...](#)

19. Determinants of post-acute COVID-19 syndrome among hospitalized severe COVID-19 patients: A 2-year follow-up study

10-05-2024 - National Library of Medicine

CONCLUSION: The prevalence of post-acute COVID-19 syndrome is high, with a wide range of persistent symptoms experienced by patients. COVID-19 survivors with the identified risk factors are more susceptible to post-acute COVID-19 and require targeted monitoring and care in a multidisciplinary approach. [Read more...](#)

20. Availability of family care resources, bathing assistance and toileting assistance among older adults with functional limitations: an evidence-based study from China

10-05-2024 - National Library of Medicine

CONCLUSION: The present findings suggest a gap in family commitment when it comes to assisting older adults with functional limitations in bathing/toileting. To address this, policymakers are encouraged to prioritize the implementation of proactive mechanisms for identifying family caregivers, alongside incentives to enhance their engagement in practical caregiving activities. [Read more...](#)

21. Welfare effect analysis of pay-as-you-go pension system: Deconstruction from the perspective of relative utility and social equality

10-05-2024 - National Library of Medicine

This paper studies the redistributive effects of two major pay-as-you-go pension systems by constructing an intergenerational iterative model which does not only considers standard utility but also relative utility. The study finds that the two main pay-as-you-go pension systems are both sustainable. If we consider different preferences, then the choice of pension system should depend on the ... [Read more...](#)

22. Medical researchers' perceptions regarding research evaluation: a web-based survey in Japan

09-05-2024 - National Library of Medicine

CONCLUSION: Despite recommendations from the Declaration on Research Assessment and the Leiden Manifesto to de-emphasise quantitative indicators, this study found that Japanese medical researchers have actually tended to prioritise the journal IF and other quantitative indicators based on English-language publications in their research evaluation. Therefore, constantly reviewing the research ... [Read more...](#)

23. Status of age-friendly city indicators in Iran cities: a systematic review

09-05-2024 - National Library of Medicine

CONCLUSION: The findings indicated that Iran failed to meet the required standards for age-friendly cities. Therefore, it is recommended that policymakers in the field of geriatric health take measures to identify and mitigate environmental risk factors for older adults. [Read more...](#)

24. Correction: The longitudinal impact of employment, retirement and disability status on depressive symptoms among men living with HIV in the Multicenter AIDS Cohort Study

09-05-2024 - National Library of Medicine

[This corrects the article DOI: 10.1371/journal.pone.0239291.]. [Read more...](#)

25. Validating interRAI Chinese self-reported carer needs (SCaN) assessment and predicting caregiving distress among informal Chinese caregivers of older adults

09-05-2024 - National Library of Medicine

CONCLUSIONS: The interRAI Chinese SCaN Assessment was found to be a reliable and valid tool among the Chinese informal caregivers of older adults. It would be useful for determining family caregivers' strengths, needs, and challenges, and tailoring interventions that address the potentially modifiable factors associated with caregiving distress and maximize support. [Read more...](#)

26. Economic impact of informal caring for a person with arthritis in Australia from 2015 to 2030: a microsimulation approach using national survey data

08-05-2024 - National Library of Medicine

CONCLUSION: Informal carers NILF are economically worse off than employed non-carers, and the aggregated national annual costs are substantial. The future economic impact of informal carers NILF to care for a person with arthritis in Australia is projected to increase, with the estimated differences in income between informal carers and employed non-carers increasing by 22% from 2015 to 2030. [Read more...](#)

27. Digital exclusion and cognitive impairment in older people: findings from five longitudinal studies

07-05-2024 - National Library of Medicine

CONCLUSION: Our research shows that a significant proportion of older people suffer from digital exclusion, especially in China. Digital exclusion was positively correlated with cognitive impairment. These findings suggest that digital inclusion could be an important strategy to improve cognitive function and reduce the risk of cognitive impairment in older adults. [Read more...](#)

28. Country Differences in Older Men's Hearing Difficulty Disadvantage

06-05-2024 - National Library of Medicine

Objectives: Hearing difficulty is prevalent in older adulthood and projected to increase via global aging, particularly among men. Currently, there is limited research on how this gender disparity might vary by

country. Methods: Using 2018 data (n = 29,480) from the Health and Retirement Study (HRS) international family of studies, we investigate gender disparities in hearing difficulty among ... [Read more...](#)

29. Joint effect of abnormal systemic immune-inflammation index (SII) levels and diabetes on cognitive function and survival rate: A population-based study from the NHANES 2011-2014

06-05-2024 - National Library of Medicine

CONCLUSION: The findings suggest that the impact of diabetes on cognitive function/survival rate is correlated with SII levels, indicating that their combination enhances predictive power. [Read more...](#)

30. Which support is provided in which country? Patterns among older adults in Europe

05-05-2024 - National Library of Medicine

This paper proposes comparative research on support provided outside the household by older adults in Europe. In studying social support, the network perspective is widely used, investigating, in particular, the ego-centered support networks of individuals. The analysis is based on data from Wave 7 of the Survey of Health Ageing and Retirement in Europe (SHARE). [Read more...](#)

31. System-wide governance challenges of the Ebonyi State Malaria Elimination Programme and recommendations for malaria health system strengthening: a qualitative study among stakeholders in Ebonyi state, Nigeria

02-05-2024 - National Library of Medicine

CONCLUSIONS: The system-wide governance challenges and the responsible factors call for changing the 'business as usual' and refocusing on strengthening malaria health system governance in addressing the persisting malaria health problems in Ebonyi state (and Nigeria). [Read more...](#)

32. Prevalence of Parkinson's disease among adults aged 45 years and older in China: a cross-sectional study based on the China health and retirement longitudinal study

02-05-2024 - National Library of Medicine

CONCLUSION: The prevalence of PD increased with age in the Chinese population. [Read more...](#)

33. Comparing the Efficacy of Two Cognitive Screening Tools in Identifying Gray and White Matter Brain Damage among Older Adults

01-05-2024 - National Library of Medicine

CONCLUSIONS: The MMSE and MoCA screening tools effectively identified gray and white matter brain damage in older adults with varying degrees of cognitive impairment. Lower MMSE scores are associated with MTL atrophy and lesions, and lower MoCA scores are related to PWM lesions. The concurrent use of MMSE and MoCA is recommended for assessing structural changes in distinct brain regions. [Read more...](#)

34. Relationship between socioeconomic status and hypertension incidence among adults in southwest China: a population-based cohort study

01-05-2024 - National Library of Medicine

CONCLUSION: The findings indicate a negative correlation between socioeconomic status and hypertension incidence among adults in southwest China, suggesting that individuals with higher socioeconomic status are less likely to develop hypertension. [Read more...](#)

35. Measuring the effects of nurse-led frailty intervention on community-dwelling older people in Ethiopia: a quasi-experimental study

30-04-2024 - National Library of Medicine

CONCLUSIONS: The nurse-led intervention notably, 12 weeks post-intervention reduced frailty and depression. The intervention improved the nutritional status and some components of the quality of life of the participants. There is a need for further studies, especially with larger participant groups and stronger research designs such as randomized controlled trials (RCTs). [Read more...](#)

Musculoskeletal health, falls prevention and ageing

1. Incorporating preoperative frailty to assist in early prediction of postoperative pneumonia in elderly patients with hip fractures: an externally validated online interpretable machine learning model

30-05-2024 - National Library of Medicine

CONCLUSION: Our model's good early prediction ability, combined with the implementation of a network risk calculator based on the Catboost model, was anticipated to effectively distinguish high-risk POP groups, facilitating timely intervention. [Read more...](#)

2. Mediating role of health literacy in relationship between frailty and health-related quality of life in community-dwelling older adults

30-05-2024 - National Library of Medicine

CONCLUSION: To increase older adults' HRQOL, measures that directly prevent and manage frailty as well as interventions that target the enhancement of health literacy are needed. [Read more...](#)

3. Exploring geriatric trauma unit experiences through patients' eyes: a qualitative study

30-05-2024 - National Library of Medicine

CONCLUSION: Effective patient-centered care in Geriatric Trauma Units requires full adherence to its core elements: patient engagement, strong patient-provider relationships, and a patient-focused environment. This study shows that deviations from these principles can undermine care, emphasizing the need for a holistic approach that extends beyond treating immediate medical conditions. [Read more...](#)

4. A qualitative exploration of challenges recruiting older adults for Being Your Best, a co-designed holistic intervention to manage and reduce frailty: lessons learnt amidst the COVID-19 pandemic in Melbourne, Australia

28-05-2024 - National Library of Medicine

CONCLUSION: Despite using multiple strategies, recruitment was much lower than anticipated. The ED staff were at capacity associated with pandemic-related activities. While EDs are important sources of participants for research, they were not suitable recruitment sites at the time of this study, due to COVID-19-related challenges. Programme screening characteristics and researchers' inability ... [Read more...](#)

5. Analysis of traumatic event emergency department visits among care home residents aged 65 + years in Southern Jutland, Denmark: implications for comprehensive care and subsequent hospital admissions - a register-based cohort study

28-05-2024 - National Library of Medicine

CONCLUSION: Traumatic event treat-and-release visits among care home residents serve as an indicator for subsequent hospitalisations, highlighting the need for a more comprehensive evaluation, even for minor injuries. These findings have implications for improving care, continuity, and resource utilisation. [Read more...](#)

6. Cross-sectional study of prevalence and correlates of fear of falling in the older people in residential care in India: the Hyderabad Ocular Morbidity in Elderly Study (HOMES)

28-05-2024 - National Library of Medicine

CONCLUSION: FOF is common among older individuals in residential care in India. Depression, falling in the previous year and DSI were strongly associated with FOF. A cross-disciplinary approach may be required to address FOF among the older people in residential care in India. [Read more...](#)

7. Osteoporosis induced by cellular senescence: A mathematical model

28-05-2024 - National Library of Medicine

Osteoporosis is a disease characterized by loss of bone mass, where bones become fragile and more likely to fracture. Bone density begins to decrease at age 50, and a state of osteoporosis is defined by loss of more than 25%. Cellular senescence is a permanent arrest of normal cell cycle, while maintaining cell viability. The number of senescent cells increase with age. [Read more...](#)

8. Postoperative pneumonia after femoral fracture surgery: an in-depth retrospective analysis

27-05-2024 - National Library of Medicine

CONCLUSION: This study accentuates the clinical significance of postoperative pneumonia in femoral fracture patients, with a noted incidence of 10.8%. A notable association with older age, prolonged hospital stays, and ICU admissions was observed, underscoring the necessity of addressing this complication to improve patient outcomes and healthcare resource allocation. [Read more...](#)

9. The role of sarcopenia in fragility fractures of the pelvis - is sarcopenia an underestimated risk factor?

26-05-2024 - National Library of Medicine

CONCLUSION: Our study highlights the important role of sarcopenia in FFPs in terms of the serious impact on health and quality of life in elderly patients especially when osteoporosis and sarcopenia occur together. Identifying and targeting sarcopenia in older patients may be an important strategy to reduce pelvic fractures and improve recovery. Further research is needed to develop effective ... [Read more...](#)

10. Older people's goals of care in relation to frailty status-the COOP-study

25-05-2024 - National Library of Medicine

CONCLUSION: Preferred goals of care are not related to frailty status, while the importance ascribed to individual goals is slightly lower with higher frailty status. Future research should prioritise outcomes related to the shared goals of fit, mildly frail and severely frail older people to improve personalised medicine for older patients. [Read more...](#)

11. Enhancing recruitment of individuals living with frailty, multimorbidity and cognitive impairment to Parkinson's research: experiences from the PRIME-UK cross-sectional study

24-05-2024 - National Library of Medicine

CONCLUSIONS: These recruitment strategies resulted in a less biased and more representative sample, with greater inclusion of older people with more complex parkinsonism. [Read more...](#)

12. A comparison of frailty measures in population-based data for patients with colorectal cancer

24-05-2024 - National Library of Medicine

CONCLUSIONS: HFRS, SCARF and FS all have value in quantifying frailty in routine administrative health care datasets. The most suitable measure will depend on the context and requirements of each individual epidemiological study. [Read more...](#)

13. Influence of aging on the relation between head control and hip joint kinematics during crossover stepping

24-05-2024 - National Library of Medicine

Falls in older individuals are a serious health issue in super-aged societies. The stepping reaction is an important postural strategy for preventing falls. This study aimed to reveal the characteristics of lateral stepping in response to mechanical disturbance by means of an analysis of the hip joint kinematics in the stepping leg and head stability during crossover steps. [Read more...](#)

14. Bone fracture is associated with incident myocardial infarction in long-term follow-up

23-05-2024 - National Library of Medicine

CONCLUSIONS: It is suggested by the present study that bone fracture may be associated with an increased risk of incident myocardial infarction in the elderly population during long-term follow-up. [Read more...](#)

15. Preoperative chemoradiotherapy in older patients with rectal cancer guided by comprehensive geriatric assessment within a multidisciplinary team-a multicenter phase II trial

21-05-2024 - National Library of Medicine

CONCLUSION: This phase II trial suggests that preCRT is efficient with tolerable toxicities in older rectal cancer patients who were evaluated as fit based on CGA. [Read more...](#)

16. Prediction of new vertebral compression fracture within 3 years after percutaneous vertebroplasty for osteoporotic vertebral compression fracture: Establishment and validation of a nomogram prediction model

21-05-2024 - National Library of Medicine

New vertebral compression fractures (NVCF) are common in patients with osteoporotic vertebral compression fractures (OVCF) who have undergone percutaneous vertebroplasty (PVP). We sought to develop a nomogram prediction model for better identification and prevention of NVCF within 3 years after PVP in patients with OVCF. The demographic, clinical, and imaging data of patients who underwent ... [Read more...](#)

17. Informal care after hip fracture: prospective cohort

17-05-2024 - National Library of Medicine

CONCLUSION: IC is very frequent, especially the first two to four weeks after discharge. The median IC was 32 hours from discharge to the 12-week follow-up. However, this figure tended to rise for persons with, among other, reduced functionality and those residing with a partner. [Read more...](#)

18. DIALOR (DIgitAL cOaching for fRailty): protocol for a single-arm mixed-methods feasibility study of a digital health coaching intervention for older people with frailty in primary care

17-05-2024 - National Library of Medicine

BACKGROUND: Multidomain interventions in older adults offer the best opportunity to prevent, delay or reverse existing symptoms in the earlier stages of frailty and improve independence but can be costly, and difficult to deliver at scale. However, digital health interventions enable personalised care and empowerment through self-management of long-term conditions, ... [Read more...](#)

19. The brain insulin receptor gene network and associations with frailty index

16-05-2024 - National Library of Medicine

CONCLUSIONS: Higher variation in the function of the insulin receptor gene network in the hippocampus is associated with increasing frailty in women. This could potentially offer novel targets for future drug development aimed at frailty and ageing. [Read more...](#)

20. Risk-adjusted trend in national inpatient fall rates observed from 2011 to 2019 in acute care hospitals in Switzerland: a repeated multicentre cross-sectional study

16-05-2024 - National Library of Medicine

CONCLUSIONS: A significant decrease in fall rates in Swiss hospitals, indicating an improvement in the quality of care provided, could be confirmed both descriptively and after risk adjustment. However, the non-linear trend, that is, an initial decrease in inpatient falls that flattens out over time, also indicates a possible future increase in fall rates. Monitoring of falls in hospitals ... [Read more...](#)

21. Changing trends in traumatic spinal cord injury in an aging society: Epidemiology of 1152 cases over 15 years from a single center in Japan

16-05-2024 - National Library of Medicine

Traumatic spinal cord injury (TSCI) causes an insult to the central nervous system, often resulting in devastating temporary or permanent neurological impairment and disability, which places a substantial financial burden on the health-care system. This study aimed to clarify the up-to-date epidemiology and demographics of patients with TSCI treated at the largest SCI center in Japan. [Read more...](#)

22. Sex differences in the association between sleep duration and frailty in older adults: evidence from the KNHANES study

16-05-2024 - National Library of Medicine

CONCLUSION: Short and long sleep durations were independently associated with frailty in community-dwelling Korean older adult women. Managing sleep problems among women should be prioritized, and effective interventions to prevent frailty should be developed accordingly. [Read more...](#)

23. Analysis of the relationship between shorter sleep duration and wrist fractures: based on NHANES

14-05-2024 - National Library of Medicine

CONCLUSION: This study demonstrates that the association between the sleep duration and the fractures of the wrist is significant. Our findings provide a better understanding of the relationship between sleep duration and wrist fractures. This study may help us reducing the incidence of wrist fractures in the population based on healthy sleep management in the future, ... [Read more...](#)

24. Association of cooking oil and incident of frailty in older adults: a cohort study

13-05-2024 - National Library of Medicine

CONCLUSIONS: The utilization of animal fat oil in cooking exhibited a reduced frailty risk among older adults. Conversely, transitioning from animal fat oil to vegetable oil may elevate the risk. These findings propose that substituting vegetable oil with animal fat oil in the diet may safeguard against frailty. [Read more...](#)

25. Post-COVID-19 patients in geriatric rehabilitation substantially recover in daily functioning and quality of life

10-05-2024 - National Library of Medicine

CONCLUSIONS: Post-COVID-19 patients admitted to GR showed substantial recovery in daily functioning and QoL. Frailty at GR admission was not associated with recovery and should not be a reason to exclude patients from GR. [Read more...](#)

26. Cement-augmented locked plate fixation proximal humerus fractures in elderly patient: a systematic review and meta-analysis

10-05-2024 - National Library of Medicine

CONCLUSION: In this review and meta-analysis, fixation of the PHFs in elderly patients using locked plates with or without cement augmentation has no significant difference in revision rate, but the implant failure and total complication rates may be lesser on using the cement-augmented locked plate for fixation than on using a locked plate alone. Good results are expected for most patients ... [Read more...](#)

27. Dependency and frailty in the older haemodialysis patient

10-05-2024 - National Library of Medicine

CONCLUSIONS: The older adult cohort, averaging over four years on hemodialysis, exhibited high rates of comorbidity, frailty, and dependency, necessitating substantial support in transport and living arrangements. A third of these patients lacked residual urine output, yet their dialysis regimen mirrored those with preserved output. The study underscores the imperative for tailored ... [Read more...](#)

28. Age-adjusted Charlson comorbidity index is associated with the risk of osteoporosis in older fall-prone men: a retrospective cohort study

10-05-2024 - National Library of Medicine

CONCLUSIONS: The current study indicated an association of higher aCCI with an increased risk of osteoporosis among older fall-prone men, supporting the possibility of aCCI as a marker of long-term skeletal-related adverse clinical outcomes. [Read more...](#)

29. Deprescribing in older adults with polypharmacy

08-05-2024 - National Library of Medicine

Polypharmacy is common in older adults and is associated with adverse drug events, cognitive and functional impairment, increased healthcare costs, and increased risk of frailty, falls, hospitalizations, and mortality. Many barriers exist to deprescribing, but increased efforts have been made to develop and implement deprescribing interventions that overcome them. [Read more...](#)

30. Effects of the delivery of physiotherapy on the treatment course of elderly fallers presenting to the emergency department: Protocol for a randomized clinical trial

08-05-2024 - National Library of Medicine

The use of physiotherapy (PT) in the hospital emergency department (ED) has shown positive results including improvements in patient waiting time, treatment initiation, discharge type, patient outcomes, safety and acceptability of the intervention by medical staffs. These findings originate from studies that primarily focus on musculoskeletal and orthopaedic conditions. [Read more...](#)

31. Do patients with nephrotic syndrome have an increased risk of osteoporosis? A nationwide population-based retrospective cohort study in Taiwan

08-05-2024 - National Library of Medicine

CONCLUSION: NS patients, particularly those treated with CS, should be evaluated for subsequent risk of osteoporosis. [Read more...](#)

32. In older patients with AF and frailty, switching from VKA to NOAC therapy increased a composite of major or CRNM bleeding at 12 mo

06-05-2024 - National Library of Medicine

Joosten LP, van Doorn S, van de Ven PM, et al. Safety of switching from a vitamin K antagonist to a non-vitamin K antagonist oral anticoagulant in frail older patients with atrial fibrillation: results of the FRAIL-AF randomized controlled trial. *Circulation*. 2024;149:279-289. 37634130. [Read more...](#)

33. 'I think we could probably do more': an interview study to explore community pharmacists' experiences and perspectives of frailty and optimising medicines use in frail older adults

06-05-2024 - National Library of Medicine

CONCLUSIONS: This study has provided an understanding of the views and experiences of community pharmacists about frailty. Community pharmacists' knowledge deficits about frailty must be addressed and their communication skills enhanced so they may confidently initiate conversations about frailty and medicines use with older adults. [Read more...](#)

34. How do primary care clinicians approach the management of frailty? A qualitative interview study

06-05-2024 - National Library of Medicine

CONCLUSION: Primary care clinicians perceive frailty as best managed through trusted relationships with patients, and with support from experienced clinicians. New multidisciplinary working in primary care could enhance frailty services, but must keep continuity in mind. There is a lack of evidence or guidance for specific interventions or management approaches. [Read more...](#)

35. Role of muscle ultrasound in frailty assessment in older adults with type 2 diabetes mellitus

04-05-2024 - National Library of Medicine

CONCLUSIONS: US-derived regional muscle measurements are associated with frailty definitions (in both physical, cumulative deficit, and multidimensional models) in a diabetic geriatric population. [Read more...](#)

36. Effect of vitamin D, calcium, or combined supplementation on fall prevention: a systematic review and updated network meta-analysis

02-05-2024 - National Library of Medicine

CONCLUSION: Vitamin D supplementation at 800-1000 IU/d is associated with a lower risk of falls among older adults. 800-1000IU/d of vitamin D has a benefit on prevention of falls in population received daily dose regimens and in population with vitamin D deficiency. [Read more...](#)

37. The risk of falls in older people prescribed antihypertensives and other research

02-05-2024 - National Library of Medicine

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

38. The chiropractors' dilemma in caring for older patients with musculoskeletal complaints: Collaborate, integrate, coexist, or separate?

02-05-2024 - National Library of Medicine

The world's elderly population is growing at a rapid pace. This has led to an increase in demand on the health and welfare systems due to age-related disorders, with musculoskeletal complaints driving the need for rehabilitation services. However, there are concerns about health services' ability to meet this demand. While chiropractic care is gaining recognition for its benefits in treating ... [Read more...](#)

[Back to Top](#)

Ageism and discrimination

1. Demographic trends of cardiorenal and heart failure deaths in the United States, 2011-2020

29-05-2024 - National Library of Medicine

CONCLUSIONS: HF-related deaths substantially outnumber cardiorenal-related deaths however, cardiorenal-related deaths are increasing at an alarming rate with the highest burden among non-Hispanic or Latino Blacks. Continued surveillance of cardiorenal-related mortality trends is critical and future studies that contain detailed biomarker and social determinants of health information are ... [Read more...](#)

2. The anatomy of prejudice during pandemic lockdowns: Evidence from a national panel study

28-05-2024 - National Library of Medicine

During the early stages of the COVID-19 pandemic, there was a spike in the reporting of hate crimes (Human Rights Watch, 2020). However, the extent to which the pandemic affected prejudice across a general population-not merely among those disposed to hate crimes-remains unclear. Also unclear is the extent to which prejudice was restricted to specific minority groups associated with the virus, ... [Read more...](#)

3. Subjective social status across the past, present, and future: status trajectories of older adults

23-05-2024 - National Library of Medicine

Beyond objective indicators of social status (e.g., income or education), the subjective social status (SSS i.e., the self-assessed position in a social hierarchy) is associated with psychological well-being and physiological functioning. Existing research has focused on older adults' current status evaluations, neglecting perceived temporal stability or change in SSS which can further impact ... [Read more...](#)

4. Examining the relationship between social determinants of health, measures of structural racism and county-level overdose deaths from 2017-2020

23-05-2024 - National Library of Medicine

CONCLUSIONS: Our findings suggest that structural racism, along with other SDOH, is associated with overdose deaths. Future research should focus on connecting individual-level data on fines and forfeitures to overdose deaths and other health outcomes, include measures of justice-related fines, such as court fees, and assess whether interventions aimed at increasing economic vitality in ... [Read more...](#)

5. Implications of Race Adjustment in Lung-Function Equations

20-05-2024 - National Library of Medicine

CONCLUSIONS: The use of race-based and race-neutral equations generated similarly accurate predictions of respiratory outcomes but assigned different disease classifications, occupational eligibility, and disability compensation for millions of persons, with effects diverging according to race. (Funded by the National Heart Lung and Blood Institute and the National Institute of Environmental ... [Read more...](#)

6. Dietary nutrient intake study among older adults: baseline Malaysian pure study

20-05-2024 - National Library of Medicine

CONCLUSIONS: This study shows a high prevalence of dietary nutrients deficiency (> 80%) among the Malaysian OA, particularly for magnesium, manganese, potassium, zinc, vitamin B(6), vitamin E, calcium, vitamin B(12), and vitamin K. To improve the nutritional status of OA and safeguard against adverse health effects, it is necessary to formulate and execute strategies to enhance their dietary ... [Read more...](#)

7. Veillonella and Bacteroides are associated with gestational diabetes mellitus exposure and gut microbiota immaturity

14-05-2024 - National Library of Medicine

BACKGROUND: Dysbiosis during childhood impacts the configuration and maturation of the microbiota. The immaturity of the infant microbiota is linked with the development of inflammatory, allergic, and dysmetabolic diseases. [Read more...](#)

8. Characteristics and spending patterns of high-cost child patients: findings from Fujian in China

14-05-2024 - National Library of Medicine

CONCLUSIONS: Healthcare support for children impacts individual development and family financial status. This study described the characteristics and spending patterns of children patients in the largest developing country. The fact that over half of total expenditures are concentrated toward 10% of patients makes it valuable to consider relevant support for this group, ... [Read more...](#)

9. Predicting short- to medium-term care home admission risk in older adults: a systematic review of externally validated models

10-05-2024 - National Library of Medicine

CONCLUSIONS: The reporting of models was incomplete. Model discrimination was at best acceptable, and calibration was rarely examined (and ignored competing mortality risk when examined). There is a need to derive better models that account for competing mortality risk and report calibration as well as discrimination. [Read more...](#)

10. Socio-economic inequalities in the breadth of internet use before and during the COVID-19 pandemic among older adults in England

09-05-2024 - National Library of Medicine

Understanding digital exclusion in older adults during the COVID-19 pandemic could help tailor responses to future outbreaks. This cohort study used data from older adults aged 60+ years in England who participated in wave nine (2018/2019) of the main English Longitudinal Study of Ageing (ELSA) survey, and/or wave one of the ELSA COVID-19 sub-study (June/July 2020). [Read more...](#)

11. Conditional independence as a statistical assessment of evidence integration processes

09-05-2024 - National Library of Medicine

Intuitively, combining multiple sources of evidence should lead to more accurate decisions than considering single sources of evidence individually. In practice, however, the proper computation may be difficult, or may require additional data that are inaccessible. Here, based on the concept of conditional independence, we consider expressions that can serve either as recipes for integrating ... [Read more...](#)

12. Diabetes, life course and childhood socioeconomic conditions: an empirical assessment for Mexico

09-05-2024 - National Library of Medicine

CONCLUSIONS: Poverty conditions before the age 10, with inter-temporal poverty implications, are associated with a higher probability of being diagnosed with diabetes when older and pose extraordinary policy challenges. [Read more...](#)

13. The impact of the English national health inequalities strategy on inequalities in mortality at age 65: a time-trend analysis

08-05-2024 - National Library of Medicine

CONCLUSION: The English health inequalities strategy was associated with a significant reduction in absolute inequality in mortality age 65-69. Future strategies to address inequalities in ageing populations may benefit from adopting a similar approach. [Read more...](#)

14. Sex differences in health-related quality of life and poverty risk among older people living with HIV in Spain: A cross-sectional study

07-05-2024 - National Library of Medicine

CONCLUSION: The aging of PLHIV is a public health concern. Our findings indicate that HRQoL and poverty risk among Spanish OPLHIV differ significantly by sex. Spain should, therefore, implement specific policies and interventions to address OPLHIV needs. The strategies must place a high priority on the reduction of sex inequalities in HRQoL and the enhancement of the structural conditions in ... [Read more...](#)

[Back to Top](#)

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