

Ageing and Aged Care publication list September 2020

(MACH Care of the Ageing Subcommittee members' **bolded**)

1. Marked Increase in Incident Gynecomastia: A 20-Year National Registry Study, 1998 to 2017.

The Journal of clinical endocrinology and metabolism, Volume 105, Issue 10, 1 October 2020.

Koch T., Bräuner E.V., Busch A.S., **Hickey M.**, Juul A.

About the Research: Gynecomastia, the proliferation of mammary glandular tissue in the male, is a frequent but little-studied condition. Available prevalence data are based on selected patient populations or autopsy cases with their inherent bias. **OBJECTIVE:** The objective of this work is to evaluate the age-related incidence and secular trends in gynecomastia in the general population.

[Link to Publication](#)

2. Mental health of older adults during the COVID-19 pandemic: lessons from history to guide our future. *International Psychogeriatrics 2020. Published online September 2020.*

Chong T.W.H., Curran E., Ames D., **Lautenschlager N.T.**, Castle D.J.

About the Research: Letter to the Editor

[Link to Publication](#)

3. Aggregation of Abnormal Memory Scores and Risk of Incident Alzheimer's Disease Dementia: A Measure of Objective Memory Impairment in Amnesic Mild Cognitive Impairment. *Journal of the International Neuropsychological Society 2020. Published online September 2020.*

Bradfield N.I., Ellis K.A., Savage G., Maruff P., Burnham S., Darby D., **Lautenschlager N.T.**, Martins R.N., Masters C.L., Rainey-Smith S.R., Robertson J., Rowe C., Woodward M., Ames D.

About the Research: The criteria for objective memory impairment in mild cognitive impairment (MCI) are vaguely defined. Aggregating the number of abnormal memory scores (NAMS) is one way to operationalise memory impairment, which we hypothesised would predict progression to Alzheimer's disease (AD) dementia.

[Link to Publication](#)

4. Exploring Australian regional cancer patients' experiences of clinical trial participation via telemedicine technology. *Journal of Telemedicine and Telecare* 2020. Published online September 2020.

Lee J.J., Burbury K., Underhill C., Harris S., Shackleton K., McBurnie J., McPhee N., Osmond F., Wilkins K., Baden P., **Krishnasamy M.**

About the Research: Regional cancer patients face various barriers in accessing specialist cancer services. Teletrials are a new model of care that utilise telemedicine technology to enable access to and participation in clinical trials close to home. The present study aimed to explore the experiences of regional cancer patients and their carers while participating in a teletrial, and those of regional patients who travelled to a metropolitan centre for trial participation.

[Link to Publication](#)

5. Lack of consensus on an aging biology paradigm? A global survey reveals an agreement to disagree, and the need for an interdisciplinary framework. *Mechanisms of Ageing and Development* Volume 191, October 2020, Article number 111316.

Cohen A.A., Kennedy B.K., Anglas U., Bronikowski A.M., Deelen J., Dufour F., Ferbeyre G., Ferrucci L., Franceschi C., Frasca D., Friguet B., Gaudreau P., Gladyshev V.N., Gonos E.S., Gorbunova V., Gut P., Ivanchenko M., Legault V., Lemaître J.-F., Lontis T., Liu G.-H., Liu M., **Maier A.B.**, Nóbrega O.T., Olde Rikkert M.G.M., Pawelec G., Rheault S., Senior A.M., Simm A., Soo S., Traa A., Ukraintseva S., Vanhaelen Q., Van Raamsdonk J.M., Witkowski J.M., Yashin A.I., Ziman R., Fülöp T.

About the Research: At a recent symposium on aging biology, a debate was held as to whether or not we know what biological aging is. Most of the participants were struck not only by the lack of consensus on this core question, but also on many basic tenets of the field. Accordingly, we undertook a systematic survey of our 71 participants on key questions that were raised during the debate and symposium, eliciting 37 responses. The results confirmed the impression from the symposium: there is marked disagreement on the most fundamental questions in the field, and little consensus on anything other than the heterogeneous nature of aging processes.

[Link to Publication](#)

6. Loss of bone density and bone strength following premenopausal risk-reducing bilateral salpingo-oophorectomy: a prospective controlled study (WHAM Study). *Osteoporosis International* 2020. Published online September 2020.

Jiang H., Robinson D.L., Lee P.V.S., Krejany E.O., Yates C.J., **Hickey M.**, Wark J.D.

About the Research: Prophylactic oophorectomy is recommended for women at high risk for ovarian cancer, but the associated impact on bone health is of clinical concern. This prospective, controlled study demonstrated substantial loss of bone density and bone strength following surgical menopause. Postoperative hormone therapy alleviated, but not fully prevented, spinal bone loss.

[Link to Publication](#)

7. Dynamic Regional Brain Atrophy Rates in the First Year After Ischemic Stroke. *Stroke, Volume 51, Issue 9, 1 September 2020, Pages e183-e192*

Brodtnann A., Khlif M.S., Egorova N., Veldsman M., Bird L.J., Werden E.

About the Research: Brain atrophy can be regarded as an end-organ effect of cumulative cardiovascular risk factors. Accelerated brain atrophy is described following ischemic stroke, but it is not known whether atrophy rates vary over the poststroke period. Examining rates of brain atrophy allows the identification of potential therapeutic windows for interventions to prevent poststroke brain atrophy.

[Link to Publication](#)

8. Variation in outcome reporting and measurement tools in clinical trials of treatments for genitourinary symptoms in peri- and postmenopausal women: a systematic review. *Menopause (New York, N.Y.) Volume 27, Issue 9, 1 September 2020, Pages 1070-1080.*

Christmas M.M., Song B., Bell R.J., Iliodromiti S., Mitchell C., **Hickey M.**, International COMMA (Core Outcomes in MenopAuse) Consortium.

About the Research: Importance: Genitourinary symptoms affect 40% to 60% of postmenopausal women. Evidence-based approaches to diagnosing and managing these symptoms are limited by inconsistencies in outcomes and measures used in clinical trials. Objective: The aim of the study was to systematically review all outcomes and measurement tools reported in randomized clinical trials of interventions for genitourinary symptoms associated with menopause.

[Link to Publication](#)

9. Incidence, Progression, and Patterns of Multimorbidity in Community-Dwelling Middle-Aged Men and Women. *Frontiers in Public Health, Volume 8, 18 August 2020, Article number 404.*

Shang X., Peng W., Hill E., **Szoeke C.**, He M., Zhang L.

About the Research: Determining the incidence, progression, and patterns of multimorbidity are important for the prevention, management, and treatment of concurrence of multiple conditions. This study aimed to analyze major multimorbidity patterns and the association of the onset of a primary condition or combinations of a primary and a secondary condition with the progression to subsequent conditions.

[Link to Publication](#)

10. Tasks and responsibilities in physical activity promotion of older patients during hospitalization: A nurse perspective. *Nursing Open, 2020. Published online September 2020.*

Scheerman K., Mesters J.W., Borger J.N., Meskers C.G.M., **Maier A.B.**

About the Research: Aim: To investigate how nurses perceive tasks and responsibilities in physical activity promotion of hospitalized older patients and which factors are of influence.

[Link to Publication](#)

11. Diagnosis, prevalence, and clinical impact of sarcopenia in COPD: a systematic review and meta-analysis. *Journal of Cachexia, Sarcopenia and Muscle*, 2020. Published online September 2020.

Sepúlveda-Loyola W., Osadnik C., Phu S., Morita A.A., **Duque G.**, Probst V.S.

About the Research: Sarcopenia prevalence and its clinical impact are reportedly variable in chronic obstructive pulmonary disease (COPD) due partly to definition criteria. This review aimed to identify the criteria used to diagnose sarcopenia and the prevalence and impact of sarcopenia on health outcomes in people with COPD.

[Link to Publication](#)

12. Comparison of modafinil and pitolisant in narcolepsy: A non-inferiority meta analytical approach. *Drugs in Context*, Volume 9, 8 July 2020.

Lehert P., **Szoeke C.**

About the Research: To assess the non-inferiority of pitolisant, a new compound for the relief of excessive daytime sleepiness (EDS) and cataplexy in narcolepsy, compared with modafinil.

[Link to publication](#)

13. ApoB48-lipoproteins are associated with cardiometabolic risk in adolescents with and without polycystic ovary syndrome. *Journal of the Endocrine Society*, Volume 4, Issue 8, 1 August 2020, Article number bvaa061.

Vine D.F., Beilin L.J., Burrows S., Huang R.-C., **Hickey M.**, Hart R., Proctor S.D., Mori T.A.

About the Research: Adolescents with polycystic ovary syndrome (PCOS) have increased incidence of cardiometabolic risk factors including dyslipidemia. Atherogenic apolipoprotein (apo) B-lipoprotein remnants are associated with increased cardiovascular disease (CVD) risk.

[Link to Publication](#)

14. Work-integrated learning and skill development in a master of public health program: Graduate perspectives. *Journal of University Teaching and Learning Practice*, Volume 17, Issue 4, 2020, Article number 2, Pages 1-19.

Durham S., Jordan H., **Naccarella L.**, Russell M.

About the Research: It is increasingly understood that work-integrated learning (WIL) opportunities are critical in providing graduating students with employability skills which allow them to gain employment and effectively operate in work environments. This is particularly relevant within degrees such as public health that cut across very diverse fields of practice. Little research has previously investigated student perceptions post-graduation of skill development within public health degrees. This investigation aimed to identify the range of skills gained within a Master of Public Health (MPH) degree which graduates felt assisted them to obtain employment, and to determine the teaching and learning approaches that contributed to the development of these skills.

[Link to Publication](#)

15. Unblinded by the light: amyloid-related imaging abnormalities in Alzheimer's clinical trials. *European Journal of Neurology*, 2020. Published online September 2020.

Gleason A., Ayton S., **Bush A.I.**

About the Research: Letter to the Editor

[Link to Publication](#)

16. Vitrectomy as an Aerosol-Generating Procedure in the Time of COVID-19: The VAPOR Study. *Ophthalmology Retina*, 2020. Published online September 2020.

Okada M., Sousa D.C., Fabinyi D.C.A., Hadoux X., Edwards T.L., Brown K.D., Chiu D., Dawkins R.C.H., Allen P.J., Yeoh J., **van Wijngaarden P.**

About the Research: In this study, we investigated the potential for aerosolization during vitrectomy surgery in both in vivo and ex vivo conditions. The study adhered to the tenets of the Declaration of Helsinki and was approved by the local human research ethics committee at the Royal Victorian Eye and Ear Hospital.

[Link to Publication](#)

17. Acute phase markers in CSF reveal inflammatory changes in Alzheimer's disease that intersect with pathology, APOE ε4, sex and age. *Progress in Neurobiology*, 2020, Article number 101904.

Ayton S., Janelidze S., Roberts B., Palmqvist S., Kalinowski P., Diouf I., Belaidi A.A., Stomrud E., **Bush A.I.**, Hansson O.

About the Research: It is unknown how neuroinflammation may feature in the etiology of Alzheimer's disease (AD). We profiled acute phase response (APR) proteins (α 1-antitrypsin, α 1-antichymotrypsin, ceruloplasmin, complement C3, ferritin, α -fibrinogen, β -fibrinogen, γ -fibrinogen, haptoglobin, hemopexin) in CSF of 1291 subjects along the clinical and biomarker spectrum of AD to investigate the association between inflammatory changes, disease outcomes, and demographic variables.

[Link to Publication](#)

18. Predicting outcome in older patients with cancer: Comprehensive geriatric assessment and clinical judgment. *Journal of Geriatric Oncology*, 2020. Published online September 2020.

Versteeg K.S., Looijaard S.M.L.M., Slee-Valentijn M.S., Verheul H.M.W., **Maier A.B.**, Konings I.R.H.M.

About the Research: Comprehensive Geriatric Assessment (CGA) has been incorporated into geriatric oncology to prevent unfavorable outcome from anticancer treatment. This study determined the value of CGA and medical oncologist's clinical judgment in predicting unfavorable outcome and explored whether treatment decisions can be based on CGA.

[Link to Publication](#)

19. Integration of Inpatient and Residential Care In-Reach Service Model and Hospital Resource Utilization: A Retrospective Audit. *Journal of the American Medical Directors Association*, 2020. Published online September 2020.

Kwa J.-M., Storer M., Ma R., **Yates P.**

About the Research: Objective: In parts of Australia, Residential In-Reach (RIR) services have been implemented to treat residential aged care (RAC) residents for acute conditions in their place of residence to avoid preventable hospital presentation. Our service was initiated in 2009 and restructured in 2014. We compared acute healthcare resource utilization (RIR activity and emergency hospital presentations) by RAC residents under 2 RIR models of care.

[Link to Publication](#)

20. Regional neurodegeneration correlates with sleep-wake dysfunction after stroke. *Sleep*, Volume 43, Issue 9, 14 September 2020

Gottlieb E., Egorova N., Khlif M.S., Khan W., Werden E., Pase M.P., Howard M., **Brodtmann A.**

About the Research: Sleep-wake disruption is a key modifiable risk factor and sequela of stroke. The pathogenesis of poststroke sleep dysfunction is unclear. It is not known whether poststroke sleep pathology is due to focal infarction to sleep-wake hubs or to accelerated poststroke neurodegeneration in subcortical structures after stroke.

[Link to Publication](#)

21. 'We are very individual': anticipated effects on stroke survivors of using their person-generated health data. *BMJ health & care informatics*, Volume 27, Issue 3, 1 September 2020.

Dimaguila G.L., **Batchelor F.**, Merolli M., Gray K.

About the Research: Person-generated health data (PGHD) are produced by people when they use health information technologies. People who use PGHD may experience changes in their health and care process, such as engagement with their own healthcare, and their sense of social support and connectedness. Research into evaluating those reported effects has not kept up; thus, a method for measuring PGHD outcomes was previously designed and applied to the exemplar case of Kinect-based stroke rehabilitation systems. A key step of the method ensures that the patient's voice is included. Allowing stroke survivors to participate in the development and evaluation of health services and treatment can inform healthcare providers on decisions about stroke care, and thereby improve health outcomes

[Link to Publication](#)

22. Biomechanical Leg Muscle Function During Stair Ambulation in Men Receiving Androgen Deprivation Therapy. *The Journals of Gerontology. Series A, Biological sciences and medical sciences, Volume 75, Issue 9, 16 September 2020, Pages 1715-1722.*

Cheung A.S., Gray H.A., Schache A.G., Hoermann R., Bicknell J., Joon D.L., **Zajac J.D.**, Pandy M.G., Grossmann M.

About the Research: The role of testosterone in maintaining functional performance in older men remains uncertain. **METHODS:** We conducted a 12-month prospective, observational case-control study including 34 men newly commencing androgen deprivation therapy for prostate cancer and 29 age-matched prostate cancer controls. Video-based motion capture and ground reaction force data combined with computational musculoskeletal modeling, and data were analyzed with a linear mixed model.

[Link to Publication](#)

23. Nonpharmacological therapies for the management of menopausal vasomotor symptoms in breast cancer survivors. *Supportive Care in Cancer, 2020. Published online September 2020.*

Tran S., **Hickey M.**, Saunders C., Ramage L., Cohen P.A.

About the Research: Purpose: Breast cancer affects millions of women worldwide, and for many, therapy results in treatment-induced menopause. Menopausal symptoms in breast cancer survivors are often more severe, frequent, and of greater duration compared with natural menopause. Hot flushes and night sweats pose a significant burden for many women, with limited therapeutic options as menopausal hormone therapy is contraindicated. Guidelines recommend non-hormonal pharmacological agents including clonidine, gabapentin, and some antidepressants. However, some women may be reluctant to use medications due to concerns about side effects. The aim of this narrative review was to appraise recent evidence for nonpharmacological treatments for vasomotor symptoms in breast cancer survivors including cognitive behavioural therapy, hypnosis, yoga, mindfulness, acupuncture, and lifestyle changes.

[Link to Publication](#)

24. Education, occupation and operational measures of sarcopenia: Six years of Australian data.

Australasian Journal on Ageing, 2020. Published online September 2020.

Brennan-Olsen S.L., Vogrin S., Balogun S., Wu F., Scott D., Jones G., Hayes A., Phu S., **Duque G.**,
Beauchamp A., Talevski J., Naureen G., Winzenberg T.M.

About the Research: Objectives: To examine associations of education and occupation with handgrip strength (HGS), lower limb strength (LLS) and appendicular lean mass (ALM).

[Link to Publication](#)