

Menopause

The Journal of The North American Menopause Society

VOLUME 28, ISSUE 10 2021

SDC OPEN

Supplemental Digital Content is available.

Open Access article.

Contents

Editorials

1079

Menopausal status at diagnosis of breast cancer and risk of metastatic recurrence Robin J. Bell, MB, BS (Hons), PhD, MPH

1081

Is obesity predictive of endometrial cancer for women with postmenopausal bleeding?

Annekathryn Goodman, MD, MPH

1083

Reproductive aging and Alzheimer disease biomarkers: an evolving field Burcu Zeydan, MD

Original Studies

1085

Impact of menopausal status on risk of metastatic recurrence of breast cancer Chunhuan Lao, MSc, PhD, Mark Elwood, MB, MD, DSc, FRCP (Canada), FAFPHM, Marion Kuper-Hommel, MB, PhD, FRACP, Ian Campbell, MB, FRACS, and Ross Lawrenson, MBBS, MD, (London) DRCOG, Dip Comm Health (Otago) FRCGP, FFPH, FAFPHM

Women with earlier age at menopause, and ER+ and/or PR+ stage I-III breast cancer, were more likely to develop metastatic breast cancer. Age increased the risk of metastatic relapse for women with ER- and PR- disease, but not for ER+ and/or PR+ cancers.

1093

Obesity increases endometrial cancer risk in Chinese women with postmenopausal bleeding

Fangzi Liu, MBChB, Eva C.W. Cheung, MBChB, FRCOG, FHKCOG, FHKAM (O&G), and Terence T. Lao, MBBS, MD, MRCOG, FRCOG, FHKAM (O&G), FHKCOG, Cert.in Maternal- Fetal Medicine (Toronto)

When managing postmenopausal bleeding in Chinese women, the Asian Body Mass Index standard for obesity at 25 kg/m2 identified 51% of endometrial cancers in this group and denoted a 57% increased risk of endometrial cancer. Thus, obesity could be utilized to triage women presenting with postmenopausal bleeding for prioritized investigations.

(continued)



1099

Reproductive period and preclinical cerebrospinal fluid markers for Alzheimer disease: a 25-year study

Jenna Najar, MD, Tore Hällström, MD, PhD, Anna Zettergren, PhD, Lena Johansson, PhD, Erik Joas, PhD, Madeleine Mellqvist Fässberg, PhD, Henrik Zetterberg, MD, PhD, Kaj Blennow, MD, PhD, Silke Kern, MD, PhD, and Ingmar Skoog, MD, PhD The findings of this study suggest that longer exposure to endogenous estrogen may be associated with increased levels of Alzheimer's disease (AD) biomarkers in the preclinical phase of AD.



1108

Hormone therapy formulation, dose, route of delivery, and risk of hypertension: findings from the Women's Health Initiative Observational Study (WHI-OS)

Robert A. Wild, MD, MPH, PhD, Joseph C. Larson, MS, Carolyn J. Crandall, MD, MS, Aladdin H. Shadyab, PhD, Matthew Allison, MD, MPH, Margery Gass, MD, Chrisandra Shufelt, MD, MS, and JoAnn E. Manson, MD, DrPH

This analysis suggests that different doses, more years since menopause at initiation, and alternate formulations than 0.625mg conjugated estrogens do make a difference in the risk of acquiring hypertension. The findings of this study further inform decision making regarding hormone therapy use in postmenopausal women and they offer more precision.

1117

Dance practice modifies functional fitness, lipid profile, and self-image in postmenopausal women

Giovana Rampazzo Teixeira, PhD, Allice Santos Cruz Veras, MD, Ana Paula Rodrigues Rocha, MD, Sylvia Seidinger Chedid, MD, Ismael Forte Freitas Júnior, PhD, Raul Antônio Fragoso Neto, PhD, Luis Alberto Gobbo, PhD, and Camila Buonani, PhD

A 16-week dance intervention was effective in improving not only the lipid profile and functional fitness of postmenopausal women, but also self-image and self-esteem.



1125

Comparative venous thromboembolic safety of oral and transdermal postmenopausal hormone therapies among women Veterans

Marc Blondon, MD, MS, Andrew K. Timmons, MS, Aaron J. Baraff, PhD, James S. Floyd, MD, MS, Laura B. Harrington, PhD, MPH, Anna M. Korpak, PhD, and Nicholas L. Smith, PhD *Among women Veterans, the risk of venous thromboembolism was similar in users of oral conjugated equine estrogen (CEE), oral estradiol (E2) and transdermal E2. These findings do not confirm the previously observed greater safety of transdermal and oral E2 over CEE.*



1130

SDC

Factors related to age at natural menopause in China: results from the China Kadoorie Biobank

Meng Wang, MD, Christiana Kartsonaki, PhD, Yu Guo, MD, Jun Lv, PhD, Wei Gan, PhD, Zheng-Ming Chen, PhD, Li-Ming Li, PhD, Chong-Gao Hu, MD, Ling Yang, PhD, and Min Yu, MD This large epidemiological study found a wide range of socio-demographic, lifestyle, dietary, and reproductive factors related to premature menopause, early menopause and later age at menopause in Chinese women.

1143

The mediating effect of skeletal muscle index on the relationship between menarcheal age and bone mineral density in premenopausal women by race/ethnicity

Hongting Ning, PhD, Yan Du, PhD, Lan-Juan Zhao, PhD, Qing Tian, MD, Hui Feng, PhD, and Hong-Wen Deng, PhD

Skeletal mass index, as a full mediator, affected the relationship between menarcheal age and bone mineral density (BMD) among premenopausal women, and the mediating effects varied by race/ethnicity. To prevent or slow down the loss of hip/spine BMD and the development of osteoporosis, measures aiming at minimizing the risk for muscle mass loss should be recommended, especially for White and African-American women with late menarcheal age.



1150

The Women's Study for the Alleviation of Vasomotor Symptoms (WAVS): a randomized, controlled trial of a plant-based diet and whole soybeans for postmenopausal women

Neal D. Barnard, MD, FACC, Hana Kahleova, MD, PhD, Danielle N. Holtz, BS, Fabiola del Aguila, PhD, Maggie Neola, BS, RD, Lelia M. Crosby, BA, RD, and Richard Holubkov, PhD

The combination of a low-fat, vegan diet and whole soybeans was associated with reduced frequency and severity of hot flashes and improved quality of life in vasomotor, psychosocial, physical, and sexual domains in postmenopausal women. During the 12-week study period, the majority of intervention-group participants became free of moderate-to-severe hot flashes.

1157

Association between higher serum uric acid levels within the normal physiological range and changes of lumbar spine bone mineral density in healthy Chinese postmenopausal women: a longitudinal follow-up study

Wen Han, PhD, Xiaojuan Bai, MD, Lulu Han, PhD, Xuefeng Sun, PhD, and Xiangmei Chen, PhD Higher serum uric acid (SUA) levels within the normal physiological range were independently associated with decreased lumbar spine bone mineral density (BMD). SUA levels were positively related to the BMD of the lumbar spine, total hip, and trochanter in healthy Chinese postmenopausal women.



1166

Associations between menopause, cardiac remodeling, and diastolic function: the CARDIA study

Wendy Ying, MD, Wendy S. Post, MD, MS, Erin D. Michos, MD, MHS, Vinita Subramanya, MBBS, MPH, Chiadi E. Ndumele, MD, PhD, Pamela Ouyang, MBBS, Bharath Ambale-Venkatesh, PhD, Henrique Doria De Vasconcellos, MD, MSc, Chike C. Nwabuo, MD, MPH, Pamela J. Schreiner, PhD, Cora E. Lewis, MD, MSPH, Jared Reis, PhD, Donald Lloyd-Jones, MD, ScM, Stephen Sidney, MD, MPH, Joao A.C. Lima, MD, and Dhananjay Vaidya, MBBS, PhD

This study found that menopause is associated cross-sectionally with worse diastolic function and longitudinally with adverse left ventricular and left atrial remodeling. This may contribute to the increased risk of heart failure with preserved ejection fraction in postmenopausal women.

Brief Reports



1176

Impact of sleep disturbances on employment and work productivity among midlife women in the US SWAN database: a brief report

Risa Kagan, MD, FACOG, CCD, NCMP, Aki Shiozawa, MPH, MBA, DrPH, Andrew J. Epstein, PhD, MPP, and Robert Espinosa, MBA

New-onset sleep problems in midlife women are associated with significant increases in risk of unemployment and ~\$2 billion/year in lost productivity nationwide.

1181

Different cutoff points to diagnose low muscle mass and prediction of osteoporosis in postmenopausal women

Camila Miranda, MSc, Vinicius Faria Borges de Morais, BSc, Fernanda Maria Martins, MSc, Danyelle Cristina Silva Pelet, PhD, Cláudio Lera Orsatti, PhD,

Luciana Mendes Cangussu-Oliveira, PhD, Eliana Aguiar Petri Nahas, MD, PhD,

Samarita Beraldo Santagnello, MSc, Rodolfo Ferreira de Paula, BSc,

Markus Vinicius Campos Souza, PhD, and Fábio Lera Orsatti, PhD

This study indicates that inconsistent results are observed between different cutoff points of appendicular lean mass and osteoporosis in postmenopausal women. Thus, the use of absolute appendicular lean mass (< 15 kg) seems to be the most suitable for predicting osteoporosis based on low muscle mass in postmenopausal women.

Personal Perspective



1186

Menopause preparedness: perspectives for patient, provider, and policymaker consideration Irene O. Aninye, PhD, Melissa H. Laitner, PhD, MPH, Shivani Chinnappan, BA, and the Society for Women's Health Research Menopause Working Group

The Society for Women's Health Research (SWHR) convened a Menopause Working Group to review the state of science on menopause and reproductive aging and to identify priority areas and strategies to address unmet needs in menopause research, care, and policy. This paper outlines a Menopause Preparedness approach that should enable improved care and quality of life for individuals during and after the menopause transition.

Review Article

1192

Influencing factors on women's attitudes toward menopause: a systematic review

Sareh Dashti, PhD, Narjes Bahri, PhD, Tahereh Fathi Najafi, PhD, Masoumeh Amiridelui, MSc, and Robab Latifnejad Rouddsari, PhD

The findings of this study show that menopausal stage, menopausal symptoms, and psychological and socioeconomic status can influence the attitude of women toward menopause.

Wolters Kluwer Health, Inc., and The North American Menopause Society cannot be held responsible for errors or for any consequences arising from the use of the information contained in this journal. All advertising material published in this journal is expected to conform to regulatory and medical standards. The appearance of advertising in this publication does not constitute a guarantee or endorsement by The North American Menopause Society or Wolters Kluwer Health, Inc., of the quality or value of such a product or service or any claims made by its marketer.

Permissions and photocopying: For permission and/or rights to use content for which the copyright holder is Wolters Kluwer or the society we have partnered with the Copyright Clearance Center to provide permissions for our products through their RightsLink service, please go to the journal's website and after clicking on the relevant article, click on the "Get Content & Permissions" link under the "Article Tools" box that appears on the right side of the page. For questions about the Rightslink service, e-mail customercare@copyright.com or call 877-622-5543 (U.S. Only) or 978-777-9929. Permissions FAQs and information on author's permission requests are available at https://shop.lww.com/journal-permission. For additional permission inquiries, please contact Permissions@LWW.com. For translation rights requests, contact TranslationRights@wolterskluwer.com. For license to republish and distribute requests, contact HealthLicensing@wolterskluwer.com. For special projects and reprints (U.S./Canada), contact Alan Moore at Alan.Moore@wolterskluwer.com or reprintsolutions@wolterskluwer.com. For special projects and reprints (non-U.S./Canada), contact Avia Potashnik at Avia.Potashnik@wolterskluwer.com or International-

Menopause: The Journal of The North American Menopause Society is a registered trademark of The North American Menopause Society.

Menopause: The Journal of The North American Menopause Society (ISSN 1072-3714) is published monthly online-only by Wolters Kluwer Health, Inc. Annual subscription rate: \$641.

Reprints@wolterskluwer.com