



Menopause

The Journal of The North American Menopause Society

VOLUME 26, ISSUE 4 2019

SDC

Supplemental Digital Content is available.

CONTENTS

Editorials

335

Genitourinary syndrome of menopause: in their own words—development of a new patient-reported outcome measure

Juliana M. Kling, MD, MPH, and Stephanie S. Faubion, MD

337

Yoga and acupuncture versus "sham" treatments for menopausal hot flashes: how do they compare?

Amanda McGuire, PhD, and Debra Anderson, PhD

338

Women harmed by vaginal laser for treatment of GSM—the latest casualties of fear and confusion surrounding hormone therapy

Andrew M. Kaunitz, MD, FACOG, NCMP, JoAnn V. Pinkerton, MD, FACOG, NCMP, and JoAnn E. Manson, MD, DrPH, FACP, NCMP

Original Articles

341

Women's experience of vulvovaginal symptoms associated with menopause Jan L. Shifren, MD, Rebekah Zincavage, PhD, Ellen L. Cho, BA, Ashley Magnavita, MPH, David J. Portman, MD, Michael L. Krychman, MD, James A. Simon, MD, Sheryl A. Kingsberg, PhD, and Raymond C. Rosen, PhD This report describes women's experience of menopausal urogenital symptoms as ascertained during the development of a novel patient-reported outcome measure to assess the genitourinary syndrome of menopause.

(continued)

Menopause: The Journal of The North American Menopause Society (ISSN 1072-3714) is published monthly for The North American Menopause Society by Wolters Kluwer Health, Inc. Business and production offices are located at Two Commerce Square, 2001 Market St., Philadelphia, PA 19103. All rights reserved. Copyright © 2019 by The North American Menopause Society.

POSTMASTER: Send address changes to Menopause: The Journal of The North American Menopause Society, P.O. Box 1610, Hagerstown, MD 21740.









A pooled analysis of three studies of nonpharmacological interventions for menopausal hot flashes

Nancy E. Avis, PhD, Beverly J. Levine, PhD, Suzanne Danhauer, PhD, and Remy R. Coeytaux, MD, PhD

Acupuncture, yoga, and health and wellness education classes all demonstrated statistically similar effectiveness in reduction of hot flash frequency compared to controls.

357

Sleep disturbance in women who undergo surgical menopause compared with women who experience natural menopause

Na Young Cho, BA, Soriul Kim, PhD, Sara Nowakowski, PhD, Chol Shin, MD, PhD, and Sooyeon Suh, PhD

Menopause can be both physically and psychologically challenging, but women who undergo surgical menopause experience worse sleep quality compared to women who experience natural menopause, and may benefit from behavioral intervention.

365

Dietary patterns and their association with menopausal symptoms: a cross-sectional study

Mahshid Soleymani, MS, Fereydoun Siassi, PhD, Mostafa Qorbani, PhD, Shahla Khosravi, PhD, Zahra Aslany, MS, Maryam Abshirini, MS, Ghazal Zolfaghari, BS, and Gity Sotoudeh, PhD

The current study demonstrated that there is an inverse association between the vegetable and fruit dietary pattern and menopausal symptoms. In contrast, the mayonnaise, liquid oils, sweets, and desserts (MLSD) as well as the solid fats and snacks (SFS) dietary patterns were correlated to an increased risk of these symptoms.

373

Decreasing menopausal symptoms of Asian American breast cancer survivors through a technology-based information and coaching/support program

Eun-Ok Im, PhD, MPH, FAAN, Sangmi Kim, PhD, MPH, Chiyoung Lee, MSN, Eunice Chee, BSE, Jun J. Mao, MD, MSCE, and Wonshik Chee, PhD

This study tested the efficacy of a technology-based information and coaching/support program on menopausal symptoms of Asian American breast cancer survivors. The program was effective in alleviating the women's menopausal symptoms.

383

Tissue-selective estrogen complex for women who experience breast discomfort or vaginal bleeding when on hormone therapy

Sung Eun Kim, MD, Dong-Yun Lee, MD, PhD, and DooSeok Choi, MD

This study suggests that tissue-selective estrogen complex is a good option for women who have breast discomfort or persistent bleeding during other hormone therapy when taking into account the differences in estrogen dose.









SDC

387

Age at natural menopause and life expectancy with and without type 2 diabetes
Eralda Asllanaj, MD, MSc, DSc, Arjola Bano, MD, MSc, DSc, Marija Glisic, MD, MSc,
Loes Jaspers, MD, PhD, Mohammad Arfan Ikram, MD, PhD, Joop S.E. Laven, MD, PhD,
Henry Vőlzke, MD, PhD, Taulant Muka, MD, PhD, and Oscar H. Franco, MD, PhD
Women who experience early menopause live shorter lives and spend fewer years without
diabetes than women who experience normal or late menopause. These findings underscore the
value of age at natural menopause as a potential marker for predicting future health disease
risk and mortality.

395

Clinical application and mid-term results of modified vaginal closure: pelvic symptoms, quality of life, satisfaction, and regret rate

Ningyi Jia, MD, Weihong Zhao, BS, Baojun Yang, MD, Yun Xu, MD, Jinghua Li, MD, PhD, and Limin Feng, MD, PhD

Modified vaginal closure had a positive impact on pelvic symptoms, a relatively high satisfaction rate and a low regret rate, and it improved the quality of life.

401

The Female Sexual Function Index: reliability and validity in Spanish postmenopausal women

Isabel Pérez-Herrezuelo, MD, Fidel Hita-Contreras, MD, PhD, Antonio Martínez-Amat, PhD, Agustín Aibar-Almazán, PhD, David Cruz-Díaz, PhD, Rosemary Wangensteen, PhD, Alexander Achalandabaso Ochoa, PhD, and Esther Díaz-Mohedo, PhD

The Spanish version of the Female Sexual Function Index has shown good internal consistency, test-retest reliability, and construct, concurrent and divergent validity in postmenopausal women. It is able to discriminate between women with and without female sexual dysfunctions among Spanish postmenopausal women.

409

The association of miR-25T>C, miR-32C>A, miR-125C>T, and miR-222G>T polymorphisms with a risk of primary ovarian insufficiency in Korean women Sung Hwan Cho, PhD, Young Ran Kim, MD, PhD, Ji Hyang Kim, MD, PhD, Hui Jeong An, BS, Jung Oh Kim, MS, Jung Jae Ko, PhD, Woo Sik Lee, MD, PhD, and Nam Keun Kim, PhD

Our findings suggest that polymorphisms of miR-25T>C, miR-32C>A, miR-125C>T, and miR-222G>T and putative gene–gene interaction between these four miRNAs may be involved in primary ovarian insufficiency development in Korean women.

Brief Report

417

Long-term weight loss maintenance, sex steroid hormones, and sex hormone-binding globulin

Catherine Duggan, PhD, Jean de Dieu Tapsoba, PhD, Frank Stanczyk, PhD, Ching-Yun Wang, PhD, Karen Foster Schubert, MD, and Anne McTiernan, MD, PhD Sustained weight loss results in reductions in free estradiol and testosterone and increases in sex hormone binding globulin 18 months post-intervention.





Case Report

423

Rethinking the techno vagina: a case series of patient complications following vaginal laser treatment for atrophy

Catherine Gordon, MD, Savanah Gonzales, and Michael L. Krychman, MD

Lasers are currently being used for genitourinary syndrome of menopause but reports of complications are rare in the literature. A case study of 4 laser related complications is reported.

Clinical Corner

NAMS Practice Pearl

428

Hypertension in menopausal women: the effect and role of estrogen

Kajenny Srivaratharajah, MD, MSc, FRCPC, and Beth L. Abramson, MD, MSc, FRCPC, FACC States of estrogen imbalance or deprivation are associated with higher risks of hypertension and cardiovascular disease in women; however, the effects of estrogen on hypertension are not completely understood. Improved screening for hypertension, especially in specific groups of younger women at higher risk, is recommended.

Review Article

431

A systematic review of the efficacy and safety of vaginal estrogen products for the treatment of genitourinary syndrome of menopause

Colton Biehl, BS, Olivia Plotsker, and Sebastian Mirkin, MD

This review supports the use of commercially available vaginal estrogen therapies as an effective and safe first line therapy for the treatment of moderate to severe genitourinary syndrome of 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-Reprints@wolterskluwer.com.

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 by Wolters Kluwer Health, Inc., at 14700 Citicorp Drive, Bldg 3, Hagerstown, MD 21742. Business offices are located at Two Commerce Square, 2001 Market St., Philadelphia, PA 19103. Annual subscription rate: \$581.

Copyright © 2019 by The North American Menopause Society. All rights reserved. Printed in the USA.



