

Menopause

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Fezolinetant findings can fuel future instrumentation inquiries Janet S. Carpenter, PhD, RN, FAAN

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Parity, education, and postmenopausal cognitive function Sybil L. Crawford, PhD

Original Studies



1350

Effect of the neurokinin 3 receptor antagonist fezolinetant on patient-reported outcomes in postmenopausal women with vasomotor symptoms: results of a randomized, placebo-controlled, double-blind, dose-ranging study (VESTA) Nanette Santoro, MD, Arthur Waldbaum, MD, Samuel Lederman, MD, Robin Kroll, MD, Graeme L. Fraser, PhD, Christopher Lademacher, MD, PhD, Laurence Skillern, MD, James Young, MS, and Steven Ramael, MD Oral fezolinetant was associated with higher responder rates than placebo and larger improvements in quality of life and other patient-reported outcome measures, including a reduction in vasomotor symptom-related interference with daily life.

(continued)



1357

Female reproductive health and cognitive function

Chia-Kuang Tsai, MD, PhD, Yuan-Yuei Chen, MD, Chung-Hsing Chou, MD, PhD, Tung-Wei Kao, MD, Chih-Sung Liang, MD, Fu-Chi Yang, MD, PhD, Chung-Ching Wang, MD, Jiunn-Tay Lee, MD, and Wei-Liang Chen, MD, PhD

The current study highlights the correlation between number of pregnancies and cognitive malfunction in postmenopausal women. Women with more pregnancies had poorer cognitive performance, especially those who had their last pregnancy after 28 years of age and less than 12 years of education.



1363

Impact of nulliparity, hypertensive disorders of pregnancy, and gestational diabetes on vasomotor symptoms in midlife women

Yamnia I. Cortés, PhD, MPH, FNP-BC, Rhoda Conant, MD, Janet M. Catov, PhD, Karen A. Matthews, PhD, Sybil L. Crawford, PhD, Monique M. Hedderson, PhD, and Rebecca C. Thurston, PhD

The purpose of this analysis is to determine whether women with a history of nulliparity, hypertensive disorders of pregnancy (HDP), or gestational diabetes mellitus (GDM) have a higher odds of reporting vasomotor symptoms (VMS) at midlife. History of HDP/GDM may be associated with more VMS and nulliparity with fewer VMS, but not independently of socio-demographic factors.



1371

Protocol for development of a core outcome set for menopausal symptoms (COMMA)

Bobae V. Kim, MCAud, Stamatina Iliodromiti, MD, PhD, Monica Christmas, MD, Robin Bell, MD, Sarah Lensen, PhD, Martha Hickey, MBChB, MD, on behalf of the International COMMA (Core Outcomes in Menopause) Consortium

The aim of this project is to produce, disseminate and implement a Core Outcome Set for Menopausal Symptoms (COMMA). This Core Outcome Set will better enable women and clinicians to select effective treatments, improve the quality of trial reporting, reduce research wastage and improve care for women with troublesome menopausal symptoms.



1376

Effect of sex hormones on coronavirus disease 2019: an analysis of 5,061 laboratory-confirmed cases in South Korea

Jae Hoon Lee, MD, Yong Chan Kim, MD, Si Hyun Cho, MD, PhD, Jinae Lee, PhD, Seng Chan You, MD, Young Goo Song, MD, PhD, Young Bin Won, MD, Young Sik Choi, MD, PhD, and Yun Soo Park, MD, PhD

Female sex hormones were not associated with the morbidity and mortality of COVID-19 in South Korea. Furthermore, use of hormone therapy was not associated with clinical outcomes in peri- and post-menopausal women.



1382

 $17\beta\text{-estradiol/progesterone}$ in a single, oral, softgel capsule (TX-001HR) significantly increased the number of vasomotor symptom-free days in the REPLENISH trial

Andrew M. Kaunitz, MD, Diana Bitner, MD, Ginger D. Constantine, MD, Brian Bernick, MD, Shelli Graham, PhD, and Sebastian Mirkin, MD

In the REPLENISH trial, postmenopausal women with moderate to severe vasomotor symptoms (VMS) treated with oral estradiol/progesterone capsules had greater responses to treatment with more VMS symptom-free days than with placebo.



1388

Breast effects of oral, combined 17β-estradiol, and progesterone capsules in menopausal women: a randomized controlled trial

James H. Liu, MD, Denise R. Black, MD, Lisa Larkin, MD, Shelli Graham, PhD, Brian Bernick, MD, and Sebastian Mirkin, MD

In the REPLENISH trial of a combined 17β-estradiol/progesterone formulation (E2/P4), the overall incidence of abnormal mammograms or breast cancer was low and consistent with the background rate in postmenopausal women, and E2/P4 caused little breast discomfort. The single-capsule, bioidentical E2/P4 hormone therapy is safe with no significant adverse impact on the breast after 1 year of use in this study.

1396

Factors associated with use of hormone therapy after preventive oophorectomy in BRCA mutation carriers

Javier Mejia-Gomez, MD, Jacek Gronwald, MD, Leigha Senter, MS, Beth Y. Karlan, MD, Nadine Tung, MD, Wendy Wolfman, MD, Rochelle Demsky, MS, Ping Sun, PhD, Steven A. Narod, MD, Joanne Kotsopoulos, PhD, and the Hereditary Breast Cancer Clinical Study Group

The uptake of hormone replacement therapy (HRT) following oophorectomy in women with a BRCA1 or BRCA2 mutation varies by age, education and surgical history. Clinician and patient awareness may lead to better utilization of HRT in women who undergo oophorectomy at an early age to help mitigate the adverse effects associated with surgical menopause.

1403

Reproductive risk factors for angiographic obstructive coronary artery disease among postmenopausal women

Jingyi Wen, MD, PhD, Wei Shuai, MD, PhD, Ting Ding, MD, PhD, Yanzhi Feng, MD, Jinjin Zhang, MD, PhD, and Shixuan Wang, MD, PhD

Multigravidity (three or more pregnancies), early menopause, and a shorter reproductive lifespan were independent risk factors of angiographic obstructive coronary artery disease (CAD) among postmenopausal women, which suggested that pregnancy and ovarian function may be important for the early identification and prevention of increased risk of female angiographic obstructive CAD.



1411

Medroxyprogesterone opposes estradiol-induced renal damage in midlife ovariectomized Long Evans rats

Margaret A. Zimmerman, PhD, Benard O. Ogola, PhD, Mary M. Wilkinson, BS, Bruna Visniauskas, PhD, Carmen De Miguel, PhD, Jill M. Daniel, PhD, and Sarah H. Lindsey, PhD Medroxyprogesterone was protective against E2-induced renal damage and dysfunction in middle-aged female Long Evans rats. Assessing the impact of hormone therapy on renal outcomes may be an important clinical factor when considering treatment options for postmenopausal women.

1420

Vaginal elasticity is significantly decreased in vaginal atrophy: a strain elastography study Krisztina Pákozdy, MD, Attila G. Sipos, MD, Mariann Bombicz, Pharm D, PhD, Rudolf Lampé, MD, PhD, Róbert Póka, MD, PhD, Peter Takacs, MD, PhD, MBA, and Bence Kozma, MD, PhD

Vaginal elasticity is significantly decreased in women with vaginal atrophy, measured by elastography index. The results of this study suggest that strain elastography might be useful in the diagnosis of vaginal atrophy.

Review Articles

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Effect of soy protein containing isoflavones on endothelial and vascular function in postmenopausal women: a systematic review and meta-analysis of randomized controlled trials

Maryam Abshirini, PhD, Mahsa Omidian, PhD, and Hamed Kord-Varkaneh, PhD These findings suggest that soy protein supplementation does not lead to meaningful improvement on flow-mediated dilation in postmenopausal women. However, this finding is based on a limited number of studies. Additional high-quality large-scale randomized controlled trials are warranted.

1434

Menopausal transition experiences and management strategies of Chinese immigrant women: a scoping review

Ping Zou, RN, PhD, Jing Shao, RN, PhD, Yan Luo, RN, PhD, Yanjin Huang, RN, PhD, Hui Zhang, RN, PhD(c), and Souraya Sidani, RN, PhD

Chinese immigrant women were resistant to Western Medicine management such as hormone therapy but were willing to incorporate traditional medicine into their health care, while they believed that a healthy mentality was important and used various psycho-cognitive strategies to maintain a good quality of life.

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