Menopause
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Contents

Editorial

1071
Postmenopausal vaginal microbiota: more to discover
Juana Hutchinson-Colas, MD, MBA

Original Study

1073
Relationships between the vaginal microbiota and genitourinary syndrome of menopause symptoms in postmenopausal women: the Study of Women’s Health Across the Nation
L. Elaine Waetjen, MD, Sybil L. Crawford, PhD, Pawel Gajer, PhD,
Maria M. Brooks, PhD, Ellen B. Gold, PhD, Barbara D. Reed, MD, MSPH,
Rachel Hess, MD, MS, and Jacques Ravel, PhD
In this diverse sample of postmenopausal women, vaginal microbiota community state types (CST) were associated with use of exogenous estrogen, serum levels of estradiol and estrone, and vaginal atrophy biomarkers (vaginal maturation index < 50 and pH > 5). Of the genitourinary syndrome of menopause symptoms, only sexual pain was independently associated with a CST IV-C1 dominated by Streptococcus spp and with the atrophy biomarkers.

1085
Associations between childhood adversity and age at natural menopause
Juliana M. Kling, MD, MPH, Mariam Saadedine, MD,
Stephanie S. Faubion, MD, MBA, Chrisandra L. Shufelt, MD, MS,
Kristin C. Mara, MS, Felicity T. Enders, PhD, Paru S. David, MD,
and Ekta Kapoor, MBBS
Adverse childhood experiences (ACEs) are reported in more than half of the women in the United States and have been shown to negatively impact the menopause experience. The objective of this study was to evaluate the association between ACEs and age at natural menopause.

(continued)
1090
Long-term effects of premenopausal bilateral oophorectomy with or without hysterectomy on physical aging and chronic medical conditions
Michelle M. Mielke, PhD, Ekta Kapoor, MBBS, MSCP, Jennifer R. Geske, MS, Julie A. Fields, PhD, Nathan K. LeBrasseur, PhD, Melissa M. Morrow, PhD, Stacey J. Winham, PhD, Laura L. Faubion, BS, Anna M. Castillo, MS, Ekaterina I. Hofrenning, BA, Kent R. Bailey, PhD, Walter A. Rocca, MD, MPH, and Kejal Kantarci, MD, MS
Women with a history of premenopausal bilateral oophorectomy with or without concurrent or preceding hysterectomy, especially at age <46 years, have more chronic conditions and slower walking speed in late mid-life compared to referent women.

1098
Comparative estrogen exposure from compounded transdermal estradiol creams and Food and Drug Administration-approved transdermal estradiol gels and patches
Mark S. Newman, MS, Doreen Saltiel, MD, JD, Jaclyn Smeaton, ND, and Frank Z. Stanczyk, PhD
This study suggests that women using compounded transdermal estradiol creams may be receiving less estrogen exposure when compared to women using FDA-approved transdermal estradiol formulations. Urinary estradiol concentrations did increase with increasing doses of compounded transdermal estradiol cream, similar to what has been seen with FDA-approved transdermal formulations.

1106
Sleep disturbances in women with early-onset menopausal transition: a population-based study
Satu A.E. Salin, MD, Susanna M. Savukoski, MD, Paula R.O. Pesonen, MSc, Juha P. Auvinen, MD, and Maarit J. Niinimäki, MD
This study investigated sleep disturbances in 46-year-old women and their association with early-onset menopausal transition. In this study, more advanced climacteric status was associated with sleep disturbances in women in their mid-40s and this association seemed to be particularly driven by hot flashes.

1114
Mechanisms of improved body composition among perimenopausal women practicing Meditative Movement: a proposed biobehavioral model
Dara L. James, PhD, MS, Linda K. Larkey, PhD, Bronwynne Evans, PhD, Ann Sebren, EdD, Kimberley Goldsmith, PhD, Erica Ahlich, PhD, Nanako A. Hawley, MA, Afton Kechter, PhD, and Dorothy D. Sears, PhD
The proposed model details a novel, evidence supported means to reduce risk for deleterious shifts in body composition throughout perimenopause and menopause thereafter. This study suggests these changes may occur directly and/or indirectly, through psychological, behavioral, and physiological mechanisms that facilitate the desired changes in body composition.
1124
Exploration of the association between menopausal symptoms, gastrointestinal symptoms, and perceived stress: survey-based analysis
Ieva Brimienė, MD, Monika Šiaudinytė, MD, Aurelijus Burokas, PhD, and Ramunė Grišienė, PhD
Perceived stress as well as some gastrointestinal symptoms in women were associated with menopausal symptoms. Reproductive stages, physical activity, body mass index, and previously diagnosed depression or anxiety disorder were related to the intensity of menopausal symptoms.

1132
Efficacy of Jiao's scalp acupuncture in combination with Xiangshao granules on chronic tension-type headache with concomitant nonalcoholic fatty liver disease in climacteric women
Feng Pei, MM, Wei-Jia Hu, MM, and Yu-Liang Zhao, PhD
Combining Jiao's Scalp Acupuncture with Xiangshao granules had significantly better efficacy on chronic tension-type headache with concomitant nonalcoholic fatty liver disease compared with simple acupuncture and medication.

1139
Correlation between bone mineral density and bone metabolic markers in postmenopausal women with osteoporotic fractures at different C-terminal telopeptide of type 1 collagen levels: a retrospective analysis study
Xiaohan Zhu, MM, Lin Chen, MD, Ling Pan, MD, Yuexi Zeng, MM, Qiang Fu, MD, Yabin Liu, MD, Yongde Peng, MD, Yufan Wang, MD, and Li You, MD
This study showed that serum C-terminal telopeptide of type 1 collagen (CTX) above 605.8 pg/mL was negatively associated with bone mineral density in postmenopausal osteoporotic women with first fracture.

1147
Evaluation of the Everyday Memory Questionnaire-Revised in a menopausal population: understanding the brain fog during menopause
Chen Zhu, MSc, Elizabeth HX Thomas, PhD, Qi Li, PhD, Shalini Arunogiri, MBBS, PhD, Natalie Thomas, PhD, and Caroline Gurvich, DPsych
The Everyday Memory Questionnaire-Revised retrieval subscale may serve as a potential instrument to assess memory retrieval symptoms that contribute to 'brain fog' in menopause. Increased memory retrieval complaints reported by the peri-menopausal group suggests a transition-related memory retrieval dysfunction during menopausal transition.

1157
The importance of female reproductive history on self-reported sleep quality, mood, and urogenital symptoms in midlife
Lenka Vorobělová, PhD, Darina Falbová, PhD, and Veronika Candráková Čerňanová, PhD
This cross-sectional pilot study suggests that women's reproductive history, as determined by parity and miscarriage, may be relevant to their midlife health and well-being.
Effect of dehydroepiandrosterone therapy on cognitive performance among postmenopausal women: a systematic review of randomized clinical trial data
Farhana Sultana, MSS, MPH, Susan R. Davis, MB, BS, FRACP, PhD, and Rakibul M. Islam, MSS, MPhil, MPH, PhD

This systematic review of randomized controlled trials evaluated the existing evidence on the effect of exogenous dehydroepiandrosterone (DHEA) on cognitive performance in postmenopausal women. The overall findings do not support a therapeutic benefit of DHEA on cognitive performance, although a statistically significant improvement was seen in five out of six tests of visual-spatial performance in one small study.

Erratum

Response to Letter to Editor: ERRATUM