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Original Articles

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Depressive symptomatology, psychological stress, and ovarian reserve: a role for psychological factors in ovarian aging?
Maria E. Bleil, PhD, Nancy E. Adler, PhD, Lauri A. Pasch, PhD, Barbara Sternfeld, PhD, Steven E. Gregorich, PhD, Mitchell P. Rosen, MD, and Marcelle I. Cedars, MD

*Cross-sectional evidence suggests that women with low positive affect may experience accelerated antral follicle count decline (AFC) and low positive affect may be a vulnerability factor, or, alternatively, high positive affect may be a protective factor, in moderating the negative effects of psychological stress on AFC decline.*
The association of menopause status with physical function: the Study of Women’s Health Across the Nation
Lisa A. Tseng, BA, Samar R. El Khoudary, PhD, MPH, Elizabeth A. Young, MPH, Ghada N. Farhat, PhD, MaryFran Sowers, PhD, Kim Sutton-Tyrrell, DrPH, and Anne B. Newman, MD, MPH
Women with surgical or naturally occurring menopause are at nearly four-fold higher odds of reporting greater limitations in physical function than premenopausal women, independent of age, only partly explained by higher BMI and depressive symptoms. This suggests that physiologic changes of menopause could contribute directly to limitations in physical function.

Frequency of FRAX risk factors in osteopenic postmenopausal women with and without history of fragility fracture
Francesc Baró, MD, Antonio Cano, MD, Rafael Sánchez Borrego, MD, Javier Ferrer, MD, Silvia Pilar González Rodríguez, MD, Jose Luis Neyro, MD, Esteban Rodriguez Bueno, MD, Cristina Sancho, Verónica Inaraja, Cristina Fernández, MD, and Carlos Corral, MD, for the FROSPE Study Group
The aim of this study was to compare the frequency of risk factors for fractures included in the FRAX algorithm, as well as others, in osteopenic postmenopausal women with and without prior fragility fractures in Spain.

Bone resorption and fracture across the menopausal transition: the Study of Women’s Health Across the Nation
Jane A. Cauley, DrPH, Michelle E. Danielson, PhD, Gail A. Greendale, MD, Joel S. Finkelstein, MD, Yue-Fang Chang, PhD, Joan C. Lo, MD, Carolyn J. Crandall, MD, MS, Robert M. Neer, MD, Kristine Ruppert, DrPH, Leslie Meyn, MS, Beth A. Prairie, MD, MS, and MaryFran R. Sowers, PhD
Higher urinary cross-linked N-telopeptide of type I collagen (NTX) excretion measured before menopause and greater increases in NTX across menopause are associated with a higher risk for fracture over the menopausal transition.

Hot flushes and night sweats differ in associations with cardiovascular markers in healthy early postmenopausal women
Christine Laura Hitchcock, PhD, Thomas G. Elliott, MBBS, Eric G. Norman, PhD, Vesna Stajic, MD, Helena Teede, MBBS, PhD, FRACP, and Jerilynn C. Prior, BA, MD
In this study daily number of hot flushes was associated with lower body mass index and more favorable blood pressure; night sweats, by contrast, were associated with higher blood pressure.
Depressive symptoms are increased in the early perimenopausal stage in ethnically diverse human immunodeficiency virus–infected and human immunodeficiency virus–uninfected women
Pauline M. Maki, PhD, Leah H. Rubin, PhD, Mardge Cohen, MD, Elizabeth T. Golub, PhD, MPH, Ruth M. Greenblatt, MD, Mary Young, MD, Rebecca M. Schwartz, PhD, Kathryn Anastos, MD, and Judith A. Cook, PhD

In this study, women were significantly more likely to show elevated depressive symptoms in the early perimenopausal period compared with the premenopausal period. This finding was similar for HIV-infected and HIV-uninfected women, but for HIV-infected women the likelihood was especially high in women not treated with highly active antiretroviral therapy.

Assessment of sexual function and related factors in mid-aged sexually active Spanish women with the six-item Female Sex Function Index
Faustino R. Pérez-López, MD, PhD, Ana M. Fernández-Alonso, MD, PhD, Martina Trabalón-Pastor, MD, Carmen Vara, MD, and Peter Chedraui, MD, MSc, for The Menopause Risk Assessment (MARIA) Research Group

Mid-aged Spanish women completed the 6-item Female Sexual Function Index, the Menopause Rating Scale, the Hospital Anxiety and Depression Scale and a sociodemographic questionnaire. Lower sexual function was related to menopausal and mood symptoms and several female and partner factors.

Serum lipid levels in women with premature ovarian failure
Ibrahim Gulhan, MD, Giray Bozkaya, MD, Ibrahim Uyar, MD, Deniz Oztekin, MD, Baris Onder Panuk, MD, and Erbil Dogan, MD

Estrogen deprivation in young women with premature ovarian failure may lead to unfavorable lipid changes.

Prevalence, risk factors, and predictors of pelvic organ prolapse: a community-based study
Johnny Awwad, MD, Raja Sayegh, MD, Joumana Yeretzian, MS, and Mary E. Deeb, PhD

This community study suggests that vaginal childbirth, advancing age, and increased body-mass index are the most significant risk factors of pelvic organ prolapse. While a steady and progressive rise in prolapse rates occurred with each additional vaginal delivery beyond the first, a plateauing prevalence was detected in the sixth decade of life.
1242
Effects of bazedoxifene acetate with and without conjugated equine estrogens on the breast of postmenopausal monkeys
Kelly F. Ethun, DVM, Charles E. Wood, DVM, PhD, Thomas C. Register, PhD, J. Mark Cline, DVM, PhD, Susan E. Appt, DVM, and Thomas B. Clarkson, DVM
Findings indicate that bazedoxifene acetate fully antagonizes the proliferative and transcriptional effects of conjugated equine estrogen in the breast of a postmenopausal nonhuman primate model, while bazedoxifene acetate alone has no stimulatory effects.

1253
Receptors for thyrotropin-releasing hormone, thyroid-stimulating hormone, and thyroid hormones in the macaque uterus: effects of long-term sex hormone treatment
Mariana Hulchiy, MD, Hua Zhang, MD, PhD, J. Mark Cline, DVM, PhD, Angelica Lindén Hirschberg, MD, PhD, and Lena Sahlin, PhD
The receptors involved in thyroid hormone function are all present in the monkey uterus. Their expression is influenced by long-term steroid hormone treatment and might therefore be of importance for uterine function.

1260
Association of methylenetetrahydrofolate reductase (MTHFR 677C>T) and thymidylate synthase (TSER and TS 1494del6) polymorphisms with premature ovarian failure in Korean women
HyungChul Rah, DVM, PhD, Young Joo Jeon, MS, Youngsok Choi, PhD, Sung Han Shim, PhD, Tae Ki Yoon, MD, PhD, Dong Hee Choi, MD, PhD, Sun Hee Cha, MD, PhD, and Nam Keun Kim, PhD
This study shows that the MTHFR 677C>T polymorphism and haplotypes are associated with risk for POF in Korean women whereas TSER and TS 1494del6 polymorphisms are not associated with POF risk. This finding suggests that the MTHFR 677T allele may increase the risk for POF occurrence.

1267
A rehabilitation exercise program induces severe bone mineral deficits in estrogen-deficient rats after extended disuse
Joshua F. Yarrow, PhD, Sean C. McCoy, PhD, J. Andries Ferreira, BS, Jennifer E. Pingel, BS, Bryan P. Conrad, PhD, Thomas J. Wronski, PhD, Alyssa A. Williams, BS, Stephen E. Borst, PhD, and Marybeth Brown, PhD
In this study estradiol protects against bone loss resulting from combined ovariectomy plus hind limb unloading of rodents and in the absence of estrogen, exercise induces disadvantageous early-phase bone adaptations following extended disuse.
Brief Reports

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Validation of body adiposity index as a measure of obesity in overweight and obese postmenopausal white women and its comparison with body mass index
Jennifer L. Lemacks, BS, RD, Pei-Yang Liu, PhD, RD, Hyehyung Shin, PhD, Penny A. Ralston, PhD, and Jasminka Z. Ilich, PhD, RD, FACN
Results showed that the Body Adiposity Index (BAI) slightly underestimated %adiposity compared to DXA. BAI shortcomings were opposite those of the Body Mass Index; BAI was more accurate at classifying correctly obese women and less accurate in classifying correctly non-obese women.

1280
Luteinizing hormone correlates with adrenal function in postmenopausal women
Aditi R. Saxena, MD, MMS, and Ellen W. Seely, MD
In this study, serum luteinizing hormone (LH) correlates positively with urinary free cortisol and negatively with urinary aldosterone. Elevated levels of LH in postmenopausal women may affect subtle changes in adrenal function to favor cortisol secretion over aldosterone secretion.

Erratum

1284
Association of past and recent major depression and menstrual characteristics in midlife: Study of Women’s Health Across the Nation: Erratum

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