Associated factors of vaginal laxity and female sexual function: a cross-sectional study

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Background: Female sexual dysfunction (FSD), including vaginal laxity (VL), can lead to a decrease in quality of life and affect partner relationships. Aim: We aimed to investigate the associated factors of VL and FSD and their relationship with other pelvic floor disorders in a female population. Methods: This cross-sectional study was conducted at Chelsea and Westminster Hospital from July to December 2022. All women referred to clinical care at the urogynecology clinic were included. Participants were assessed according to sociodemographic and clinical aspects, the Pelvic Organ Prolapse Quantification system, sexual function, VL, sexual attitudes, sexual distress, sexual quality of life, vaginal symptoms, and pelvic floor disorders. Unadjusted and adjusted associated factors of VL and FSD were analyzed. Outcomes: The primary outcome was the identification of the associated factors of VL and FSD in a female population, and secondary outcomes included the association between VL and pelvic organ prolapse (POP) with the questionnaire scores. Results: Among participants (N = 300), vaginal delivery, multiparity, perineal laceration, menopause, and gel hormone were significantly more frequent in those reporting VL (all P < .05). When compared with nulliparity, primiparity and multiparity increased the odds of VL by approximately 4 and 12 times, respectively (unadjusted odds ratio [OR], 4.26 [95% CI, 2.05-8.85]; OR, 12.77 [95% CI, 6.53-24.96]). Menopause and perineal laceration increased the odds of VL by 4 and 6 times (unadjusted OR, 4.65 [95% CI, 2.73-7.93]; OR, 6.13 [95% CI, 3.58-10.49]). In multivariate analysis, menopause, primiparity, multiparity, and POP remained associated with VL. Clinical implications: Parity, as an obstetric factor, and menopause and staging of POP, as clinical factors, were associated with VL. Strengths and limitations: The investigation of associated factors for VL will contribute to the understanding of its pathophysiology. The study design makes it impossible to carry out causal inference.

Association between Daily Dietary Calcium Intake and the Risk of Cardiovascular Disease (CVD) in Postmenopausal Korean Women

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We aimed to evaluate the association between daily dietary calcium intake and the risk of cardiovascular disease (CVD) in postmenopausal women using data from the Korean National Health and Nutrition Examination Survey (KNHANES). This cross-sectional study included 12,348 women aged 45-70 years who had reached natural menopause. They were classified into three groups according to daily dietary calcium intake: <400 mg, 400-800 mg, and >800 mg. The risks of CVD, stroke, angina, and myocardial infarction were assessed in each group. Further, we performed subgroup analysis according to the post-menopause duration (<10 vs. >10 postmenopausal years). We performed logistic regression analysis with adjustment for age, menopausal age, income, urban area, education, insulin use, body mass index, hypertension, diabetes mellitus, dyslipidemia, high alcohol intake, smoking, exercise, oral contraceptive use, and hormonal therapy use. Calcium intake level was not significantly associated with the risk of CVD in the total population and the <10 postmenopausal years subgroup. However, in the >10 postmenopausal years subgroup, daily calcium intake >800 mg was associated with significantly decreased risks of all CVD (odds ratio [OR], 0.27; 95% confidence interval [CI], 0.11-0.64), stroke (OR, 0.06; 95% CI, 0.01-0.42), and myocardial infarction (OR, 0.27; 95% CI, 0.11-0.64). Our findings suggest that a dietary calcium intake of >800 mg/day decreases the risk of CVD events in women who have been menopausal for >10 years.

Thyroid diseases and female sexual dysfunctions

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Introduction: Female sexual dysfunctions (FSDs) have received little attention in the context of thyroid diseases, despite the high prevalence of both conditions. Objectives: This review aims to update and summarize the state of knowledge on the association between thyroid diseases and FSDs and to investigate the complex mechanisms through which thyroid hormone imbalance can impact female sexual health in the context of the biopsychosocial model. Methods: A comprehensive literature search was performed through the PubMed, MEDLINE, and Scopus databases, using the following keywords: "female sexual function," "sexual dysfunction," "hypoactive sexual desire disorder," "thyroid disease," "thyroiditis," "hypothyroidism," and "hyperthyroidism." Results: To date, well-designed studies that describe the relationship between FSDs and thyroid disorders are lacking. However, despite the limitations on available studies, current data indicate that female sexual health alterations are frequently associated with thyroid diseases in women. A complex interplay of direct and indirect hormonal and nonhormonal mechanisms has been hypothesized, including hormonal changes, neurotransmitter imbalance, reduced nitric oxide release, mood disorders, and other systemic consequences of both hypothyroidism and hyperthyroidism. Thyroid hormone receptors have also been identified in the genitourinary system. Conclusions: In a clinical setting, physicians should investigate the sexuality of patients consulting for thyroid disease. At the same time, an evaluation of thyroid function should be performed in patients presenting with FSD, especially after menopause, when the risk of thyroid diseases and FSDs increases strongly.


Does everyday discrimination account for the increased risk of vasomotor symptoms in Black women?: the Study of Women's Health Across the Nation (SWAN)

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Objectives: Vasomotor symptoms (VMS), including hot flashes and night sweats, are hallmark symptoms of the menopause transition. Previous research has documented greater frequency, duration, and severity of VMS in Black women compared with women from other racial/ethnic groups, even after accounting for other factors. This analysis examined the association between discrimination and VMS and the extent to which discrimination accounts for the disproportionate burden of VMS in Black women. Methods: Using available discrimination and VMS data from the SWAN cohort study (n = 2,377, 48% White, 32% Black, 6% Japanese, 4% Chinese, and 9% Hispanic women) followed approximately yearly in midlife from premenopause (42-52 y) through postmenopause (~20 y), we assessed concurrent associations between discrimination and VMS frequency in the past 2 weeks using weighted generalized mixed models. We also assessed associations between chronic discrimination across first four visits and VMS trajectories from premenopause to postmenopause using weighted multinomial logistic regression. Models were adjusted for known risk factors for VMS. Results: Higher levels of discrimination were associated with concurrent reporting of any (odds ratio [OR], 1.57 [1.31-1.89]) and frequent (≥6 d) VMS (OR, 1.55 [1.21-1.99]). After adjustment, associations remained significant for any (OR, 1.30 [1.09-1.54]) but not frequent VMS. For any VMS trajectories, chronic discrimination was associated with "continuously high" (OR, 1.69 [1.03-2.77]) and "high pre-FMP-decline post-FMP" (OR, 1.70 [1.01-2.88]) versus "FMP-onset low" trajectories. After adjusting for discrimination, odds of reporting any, frequent, and of being in the "continuously high" any VMS trajectory remained elevated for Black versus White women. Conclusions: Discrimination is associated with greater concurrent risk of any (but not frequent) VMS, and chronic discrimination is associated with a continuously high reporting of any VMS over time, independent of known risk factors. Adjusting for discrimination attenuates but does not eliminate the increased risk of VMS for Black women.


Use of menopausal hormone therapy beyond age 65 years and its effects on women's health outcomes by types, routes, and doses

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Objectives: The study aims to assess the use of menopausal hormone therapy beyond age 65 years and its health implications by types of estrogen/progestogen, routes of administration, and dose strengths. Methods: Using prescription drug and encounter records of 10 million senior Medicare women from 2007-2020 and Cox regression analyses adjusted for time-varying characteristics of the women, we examined the effects of different preparations of menopausal hormone therapy on all-cause mortality, five cancers, six cardiovascular diseases, and dementia.
Results: Compared with never use or discontinuation of menopausal hormone therapy after age 65 years, the use of estrogen monotherapy beyond age 65 years was associated with significant risk reductions in mortality (19% or adjusted hazards ratio, 0.81; 95% CI, 0.79-0.82), breast cancer (16%), lung cancer (13%), colorectal cancer (12%), congestive heart failure (CHF) (5%), venous thromboembolism (3%), atrial fibrillation (4%), acute myocardial infarction (11%), and dementia (2%). For the use of estrogen and progestogen combo-therapy, both E+ progesterin and E+ progesterone were associated with increased risk of breast cancer by 10%-19%, but such risk can be mitigated using low dose of transdermal or vaginal E+ progestin. Moreover, E+ progesterin exhibited significant risk reductions in endometrial cancer (45% or adjusted hazards ratio, 0.55; 95% CI, 0.50-0.60), ovarian cancer (21%), ischemic heart disease (5%), CHF (5%), and venous thromboembolism (5%), whereas E+ progesterone exhibited risk reduction only in CHF (4%). Conclusions: Among senior Medicare women, the implications of menopausal hormone therapy use beyond age 65 years vary by types, routes, and strengths. In general, risk reductions appear to be greater with low rather than medium or high doses, vaginal or transdermal rather than oral preparations, and with E2 rather than conjugated estrogen.

Hormone Replacement Therapy in Post-Menopause Hormone-Dependent Gynecological Cancer Patients: A Narrative Review
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Background: Advances in the treatment of gynecological cancer have led to improvements in survival but also an increase in menopausal symptoms, especially in young women with premature iatrogenic menopause. Methods: A narrative review was performed to clarify the possibility of prescribing hormone replacement therapy (HRT) after hormone-dependent gynecological cancers (ovarian cancer [OC], cervical adenocarcinoma [AC], and endometrial cancer [EC]). Results: HRT can be prescribed to patients with early-stage, grade I-III OC who experience bothersome menopausal symptoms non-responsive to alternative non-hormone therapy after optimal surgery. Caution should be exercised in administering HRT after serous borderline tumors and endometrioid OC, and HRT is not recommended in low-grade serous OC. HRT is not contraindicated in AC survivors. After surgery for EC, HRT can be prescribed in women with early-stage low-grade EC. There is not enough data to give indications to patients with advanced EC. Conclusions: HRT can be discussed with patients, evaluating the risks and benefits of hormone-dependent gynecological cancer. Counseling should be performed by gynecologic oncologists experienced in the management of these patients.

Possible association between subclinical hypothyroidism and age at menopause in Colombian women
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Objective: To evaluate the association between subclinical hypothyroidism with early menopause, premature menopause, and last menstrual bleeding before the natural age of menopause. Methods: This was a cross-sectional study conducted in 643 postmenopausal women aged 40-69 years. Groups were formed according to last menstrual episode: ≥45 [Natural age at menopause], 40-44 and [Early menopause], <40 [Premature menopause], and ≤45 [last menstrual episode before the natural age of menopause]. The Zulewski scale was applied to identify manifestations related to hypothyroidism and subclinical hypothyroidism, diagnosed with a serum TSH > 4.5 µIU/mL plus T4-free between 0.7 and 1.9 ng/dL. Results: It was found that 24.4% had the last menstrual episode before the natural age of menopause, 18.6% had early menopause, and 5.7% had premature menopause. Subclinical hypothyroidism was diagnosed in 4.5% of patients. Among women with subclinical hypothyroidism, there was a higher frequency of early menopause, premature menopause, and last menstrual episode before the natural age of menopause, than in women without subclinical hypothyroidism (p < 0.05). Paresthesia (50%) and dry skin (40.7%) were the most reported hypothyroidism-related manifestations. Early menopause, premature menopause, and last menstrual episode before the natural age of menopause were associated with subclinical hypothyroidism, OR: 3.37 [95% CI: 1.40-8.10], OR: 4.31 [95% CI: 1.24-14.97], and OR: 3.57 [95% CI: 1.57-8.10], respectively. Conclusions: The last menstrual episode before the natural age of menopause, early menopause, and premature menopause were significantly associated with a higher chance of subclinical hypothyroidism.