Estrogen Drop Affects Peripheral Vasculature

BY SHARON WORCESTER Tallahassee Bureau

ORLANDO, FLA. — Declining estrogen levels during late perimenopause and postmenopause substantially affect the peripheral vasculature, recent study data suggest.

Specifically, lower estrogen levels during these periods were associated with larger common carotid artery (CCA) adventitial diameter, Rachel P. Wildman, Ph.D., reported at an international conference on women, heart disease, and stroke.

This can be problematic, because greater baseline dilation limits the future ability to dilate and compensate for adverse conditions such as increased blood pressure, explained Dr. Wildman of Tulane University, New Orleans.

In 377 white and African American women from the Pittsburgh and Chicago sites of the Study of Women's Health Across the Nation (SWAN), an ongoing multiethnic, multisite longitudinal study of the menopausal transition, the crosssectional relationship between the CCA adventitial diameter and both menopausal status and sex hormones was assessed.

Artery diameter was measured using Bmode ultrasound, and sex-hormone tests evaluated levels of estrogen, testosterone, FSH, sex hormone binding globulin, the free androgen index, testosterone not



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SEA0334 October 2004

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cy is commence. Extensive epidemiological studies have revealed no increased risk of birth defects in women who have used oral contraceptives prior to pregnancy. Studies also do not suggest a teratogenic effect, particularly in so far as cardia anomalies and limb-reduction defects are concerned, when taken inadvertently during early pregnancy (see CONTEMINICIATIONS section). The administration of oral contraceptives to induce withdrawal bleeding should not be used as a test for pregnancy. Oral contraceptives should

DURA MICO Duramed Pharmaceuticals, Inc. Subsidiary of Barr Pharmaceuticals, Inc. Pomona, New York 10970 bound by sex hormone binding globulin, and androgen excess.

The women had a mean age of 50 years, and 149 were in late perimenopause or postmenopause. These women, compared with those in pre- or early perimenopause, had significantly higher total and LDL cholesterol, lower HDL cholesterol, lower estrogen, and higher androgen excess levels.

CCA adventitial diameter in the late perimenopausal and postmenopausal women were significantly larger overall, compared with those in pre- or early perimenopause (6.84 mm vs. 6.70 mm), but the differences appeared to be limited to those with higher baseline cholesterol levels.

As for the relationship between sex hormones and CCA adventitial diameter, only decreased estrogen levels were significantly associated with increased diameters, but in the subset of patients with systolic blood pressure over 140 mm Hg, decreased androgen levels were also strongly associated with larger diameter.

The findings suggest that the menopausal transition with its accompanying decrease in estrogen levels is associated with decreased vascular tone, and it appears that women with higher cholesterol and blood pressure are at the greatest risk, she said,

Follow-up data in the SWAN participants are being collected by the investigators for further evaluation of these interactions.

New Immigrants Less Likely to Undergo Pap Test

WASHINGTON — Foreign-born women living in the United States were significantly less likely to have had a Pap test within the past 3 years, compared with American-born women, Xu Wang, M.D., and colleagues reported in a poster presented at the annual meeting of the American College of Preventive Medicine.

Immigration status was associated with lower Pap test use independently of poverty, lack of insurance, and lack of a regular source of medical care, noted Dr. Wang and associates of Meharry Medical College in Nashville, Tennessee.

The logistic regression analysis included data on 16,505 women taken from the 2000 National Health Interview Survey. Overall, the age-adjusted percentage of women who had Pap tests within the past 3 years increased the longer they lived in the United States. Only 47% of women who immigrated less than 5 years ago had undergone Pap tests, compared with 58% of women who immigrated 5-9 years ago, and 78% of American-born women.

Compared with the American-born women, the foreign-born women in the survey were more likely to be younger, impoverished, uninsured, educated at less than high school level, and lacking a regular source of health care.