

## Change in Gonadotropins in Post-Menopausal Women: Effects of Parity

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### ABSTRACT

This report assessed the effect of parity on gonadotropins pattern in postmenopausal women. We studied 280 post-menopausal women (40 each grouped into nuliparous to para 6). Although there was no significant different in their ages, serum follicle stimulating hormone (FSH) and luteinizing hormone (LH) appeared to correlate negatively with parity. Thus, the levels of gonadotropins may vary with parity in post-menopausal women. Endocrinologically, female aging caused a progressive increase and decrease in FSH and estrogen levels, respectively. However, reports showed that FSH secretion varies with individual's characteristics and only a few studies have investigated the effect of age, body mass index, lifestyle factors and ethnic differences. This report was to assess the effect of parity on gonadotropins changes in post-menopausal women. The study was conducted among 280 post-menopausal women attending clinic at Saint Philomena Catholic Hospital in Benin City, Nigeria. They consisted of 40 subjects each with natural menopause transition, devoid of medical, surgical or pathological influence and classified from nuliparous to para 6. After inform consent and approval was given, medical history and blood sample were obtained for serum FSH and luteinizing hormone levels. The mean age of the women ranges from  $56.05 \pm 6.91$  to  $59.25 \pm 5.45$  years parous post-menopausal women. Parity seems to negatively correlate with FSH and LH levels in post-menopausal women. Based on the results, serum gonadotropin levels may vary with parity as with age, BMI, lifestyle and ethnicity.

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