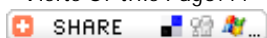




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Research Details :

Research Title	: <u><i>The relationship between Dehydroepiandrosterone, dehydroepiandrosterone - sulfate, insulin and obe</i></u> <u>دور العلاقة بين ديهيدرو ابندروسترون ، ديهيدرو ابندروسترون - سلفات الانسولين والسمنة في النساء السع</u>
Descriptipn	: Dehydroepiandrosterone (DHEA) and its sulphated metabolite (DHEA-S) are steroid hormones secreted primarily from the adrenal cortex. Both exist in the body at levels exceeding all other hormones. They are powerful hormone precursors of more than 50% of total androgen in men and over 90% of estrogens in postmenopausal women. Research has found that their levels are higher in healthy individuals than unhealthy men and women. In the present study, DHEA and DHEA-S levels were analyzed in relation to BMI, hip, WHR, sex hormones, insulin, lipid profile and age in 65 healthy Saudi women. The subjects were divided into two groups; obese and non-obese women according to their body mass index (8MI). Considering the whole population, the ratio of DHEA to DHEA-S was approximately (1: 100). Person r. test revealed a positive relationship between DHEA and DHEA-S. The analysis showed that DHEA-S levels were significantly higher in the lean group than obese group. While DHEA and DHEA-S were unrelated with waist to hip ratio, DHEA-S concentrations were negatively related to hips. Regarding the relationship between DHEA and DHEA-S with sex hormones, our data showed that DHEA did not correlated with estradiol but positively correlated with progesterone (at day 10), FSH (at day 24) and LH (at day 24). These hormones failed to show any significant correlation with DHEA-S. The correlation of DHEA and DHEA-S concentrations with testosterone was Highly significant. Furthermore, fasting insulin and lipid profile failed to show any significant correlation with DHEA and DHEA-S levels. Age is a major determinant of serum DHEA-S showing a progressive reduction during aging in both men and women. Our result confirmed that, in women DHEA-S levels were reached their peak at age ranges from 18-20 years
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