



بیست و یکمین کنگره بین المللی فیزیولوژی و فارماکولوژی ایران

۱ تا ۵ شهریور ۱۳۹۲

دانشگاه علوم پزشکی تبریز

21st International Iranian Congress of Physiology and Pharmacology

23-27 August 2013

Tabriz University of Medical Sciences



ID :	10879
Themes :	علوم اعصاب
Title :	study of attention alteration related to puberty and menopause in women (before and after compleat maturation / menopause)
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Abstract :	<p>Introduction: Cognitive performances dose not remain constant in lifetime, especially in women . so , Biological factors such as lifetime and changes in sex hormone levels are affected cognitive abilities such as attention , memory ,learning and..... . Methods: Three groups of participants were tested. The first group is immature girls (9-11 years old) . The second group is women (20-25 years old) who have completed their maturation . The thired group is postmenopausal women (45-55 years old) . Directly after the performance of stroop test , a blood sample was collected. Serum levels of estradiol and progesterone were analyzed by ELISA technique. Results: 1-Attention task : Intereference effect in the stroop test was significantly greater in postmenopausal women and prepubertal children ($p < 0/001$). That means the performance of attention was lower in these groups. 2- Hormonal results: Estradiol level in prepubertal children was significantly less than the other groups ($p < 0/001$). Progestrone level in postmenopausal women was significantly higher than the other groups ($p < 0/001$). Conclusion: The relationship between estrogen and cognitive performance of attention is significant than other groups.</p>
Keywords :	key words: Estrogen – Progestrone – Attention – Stroop – Sex hormone