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Adress:

Leiden University Medical Center
Albinusdreef 2
2333 ZA Leiden
The Netherlands

Postal Address:

M.F.L.S for the attention of LIMSC
K1-69
PO Box 9600
2300 RC Leiden

limsc@lumc.nl
www.limsc.nl

Text:

Organizing Committee LIMSC 2015

Lay-out:

S.E.M. Anema

Features etlopathogenetic changes in women after hysterectomy



Abstract nr: A175
Author: Olena Skorbach
Co-author: Lipko O.P.
University: Kharkiv National Medical University, Ukraine

Introduction

Modern scholars believe that radical surgery, including hysterectomy, "maim" women as hysterectomy promotes changing interconnections complex neuroendocrine system in the hypothalamus-pituitary-ovary-adrenal cortex-thyroid gland function and violates the pelvic floor, leads to changes in blood supply, innervation, lymph outflow. Thus, all these violations require further study to clarify the mechanisms of emergence. The aim of this study was to investigate hormonal characteristics, psycho-emotional and immunological processes in women after hysterectomy.

Methods

The study included 60 women of reproductive age who were divided into the following clinical groups: I gr. – 30 healthy women with preserved menstrual function; II gr. – 30 women undergoing surgery – hysterectomy preserving both ovaries. For the diagnosis of the syndrome of vegetative dystonia was used questionnaire "Questionnaire for signs of autonomic changes" (O. M. Wayne, 1998). Assessment of emotional state on the level of anxiety was determined by the CH.D. Spielberger's test (State-Trait-Anxiety-Inventory), adapted by Y. Khanin (1978). Assessment of hormonal carried in plasma by enzyme immunoassay using test kits manufacturing company "Alkor Bio" (St. Petersburg, Russia). Determination of the maintenance of basic pro- and anti-inflammatory cytokines in serum was performed by ELISA using commercial test kits produced by "Protein contour" (St. Petersburg, Russia).

Results

In the study it was found that in II gr. showed signs of neurovegetative dysfunction; significant increase in the content of follicle-stimulating and luteinizing hormones amid falling estradiol, progesterone [$p < 0.05$]. The study of cytokine status in II gr. showed a pronounced imbalance manifested increased levels of pro-inflammatory cytokines [IL-4 16.3 ± 2.7 pg/ml, IL-10 8.1 ± 1.4 pg/ml; $p < 0.05$], coupled with a reduction in the level of anti-inflammatory cytokines [IL-1 β 23.5 ± 3.8 pg/ml, IL-6 18.8 ± 1.7 pg/ml; $p < 0.05$].

Conclusion

Thus, we can conclude that in women after hysterectomy, which manifests estrogen deficient condition may affect the immune system of women and lead to significant immunological disorders. Immunological and hormonal changes lead to the formation and psycho-emotional disorders and neurovegetative violation.



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