

NEUROENDOCRINE REGULATION OF FEMALE REPRODUCTIVE SYSTEM. WHAT DO WE KNOW AND DON'T KNOW ABOUT THIS?

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Knowledge about the regulation of reproductive system underlie the different therapeutic approaches in treating of estrogen deficit conditions, for example, menopausal syndrome.

Gonadotropin-releasing hormone (GnRH) is a key reproductive neuro-hormone, to produce in the hypothalamus and made controlling the secretion of gonadotropins are luteinizing hormone (LH) and follicle stimulating hormone (FSH). In 1992 year demonstrated the importance of pulse secretion of GnRH to ensure cyclical function of reproductive age. By estrogen deficiency, we have hyperergic reactions GnRH with the expressed impaired tonic and especially pulse secretion. Anatomic proximity structures of hypothalamus responsible for reproduction and structures related to the regulation of vasomotor reactions, lies at the heart of the vasomotor manifestations of menopausal syndrome.

In recent years central departments links parent described the regulation directly affect GnRH. This KISS and gonadotropin-inhibitory hormones (GnIH), produced in the same neurons, as well as the role of endogenous melatonin in regulating the secretion of hormone GnIH.

From 2015 onwards a new injectable drug Pineamin[®] for the treatment of climacteric symptoms. Pineamin[®] containing PPG peptides, restores the functional density of pineal gland, stimulates the secretion of endogenous melatonin and thus restores the balance of interaction KISS and gonadotropin inhibiting neurons and returns the correct pulse rhythm and level of gonadolibarina, secretion of FSH and LH.

The central mechanism of action and injection form, Pineamin[®] has no influence on the endometrium, does not affect levels of female sex hormones (estradiol, FSH, LH). This is the main advantage of the preparation for safety in part of the proliferative effects on reproductive system.

The results of a clinical study Pineamin[®] and the results of the application of the current practice demonstrate the therapeutic efficacy and the benefits of the safety of the PPG class-effect.