The role of topic vaginal products in posthysterectomy vaginal atrophy

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ABSTRACT

Vaginal atrophy represents a frequently encountered condition which is significantly correlated with decreased amounts of circulating oestrogen levels. It is usually characterised by the presence of burning, itching, irritation and dyspareunia. In such cases attention was focused on identifying a topic product which might alleviate these symptoms and stop the deterioration process of the vaginal lining. One product which seems to have an effective role in order to stop this process and to offer a good local control of the disease should contain anti-inflammatory, healing and antiseptic principles. The aim of the current paper is to study the possible benefits of Cerviron a topic product with intravaginal administration which contains seven active principles in order to offer the above mentioned effects.

Keywords: vaginal atrophy, oestrogen, menopause, Cerviron

INTRODUCTION

Although attention has been widely focused worldwide on performing conservative procedures in order to preserve future fertility and to avoid pelvic disorders, hysterectomy still represents the cornerstone gynaecological procedure worldwide (1,2). Meanwhile, although surgical procedure significantly improved and minimally invasive surgery has been widely implemented in gynaecology surgery leading to a faster recovery, a lower degree of pain and a faster return to normal social life (3,4), it is still associated with significant psychological impact (5-8). A significant factor which might influence the postoperative psychological status of the patient is represented by the indication which leaded to the necessity of performing a hysterectomy; therefore while patients submitted to surgery for benign conditions will probably have a feeling of relief after surgery (due to the fact that their problem is basically solved), patients submitted to surgery for malignant conditions will still report a feeling of anxiety and depression due to the diagnostic of cancer (9).
POSTMENOPAUSAL OESTROGEN DEFICIENCY

Meanwhile, another significant modification which appears after hysterectomy is related to hormonal modifications such as oestrogen decrease. This hormonal imbalance seems to be responsive for a significant number of vascular, urogenital and musculoskeletal changes which have a psychological impact on the patients’ state and on their quality of life (10,11). One of the most common complaints which are described to develop in close connection with hysterectomy and estrogen level drop down is represented by vaginal atrophy. This condition is usually associated with symptoms like vaginal dryness – reported in up to half of patients, pruritus, itching, burning, dyspareunia (12). In order to better control these symptoms the first and most appropriate solution which was imagined consisted of local administration of oestrogen related topics (13). This way of administration offers an effective local absorption of this active principle and improves the local symptoms; meanwhile, although the systemic absorption is limited, it is still present and might have a serious impact on the risk of recurrence in patients with previous history of oestrogen dependent malignancies such as breast, endometrial or ovarian cancer (14-18).

VAGINAL ATROPHY (ATROPHIC VAGINITIS)

As mentioned before, one of the most commonly encountered modifications reported after total hysterectomy with bilateral adnexectomy is represented by vaginal atrophy. Also known as atrophic vaginitis, this condition is considered to be an unspecific vaginitis, characterised by the presence of a diminished elasticity of the vaginal mucosa, vaginal dryness and a thinner vaginal lining. Meanwhile, other symptoms such as reddish aspect of the vulvo-vaginal area or purulent discharge have been reported; in such cases a differential diagnostic with infectious vaginitis is needed in order to establish the right origin of the affection and to correctly conduct the treatment. In such cases direct visualisation provides the identification an extremely thin vaginal lining will establish the right diagnostic (19,20). In the meantime, association of imagistic studies such as transvaginal and even abdominal ultrasound provides a more objective information - the exact dimension of the vaginal mucosa; according to this information the degree of atrophy can be precisely determined and a proper treatment can be applied (21).

THERAPEUTIC STRATEGIES IN VAGINAL ATROPHY

In order to alleviate the above mentioned symptoms without increasing the risks of exposure to a high amount of unopposed oestrogen, different topical products have been proposed with various results. Therefore, in such cases a proper topic product should alleviate the symptoms, should decrease the risks of apparition of microtraumatisms and secondary infections and should provide an effective healing process.

In this respect, non-hormonal moisturizing vaginal gels or ovules have been widely investigated so far. Interesting results have been reported after the three times per week use of a gel consisting of purified water, glycerine, hydrogenated palm oil glyceride, polycarbophil and sorbic acid; surprisingly such products reported a superior efficacy when compared to oestrogen based products (22). Other effective agents are represented by homeopathic agents such as bryonia, belladonna, lycopodium, Calendula officinalis, Curcuma longa, Hydrastis canadensis or Thymus vulgaris or vitamins such as vitamin D, E or alpha-tocopherol (23-27). Another active principle which has been proposed is the one represented by pH balanced vaginal gel, which seems to re-establish the normal environmental vaginal pH, and to create a proper medium for an adequate development of a normal vaginal flora; the main active principle in such cases is represented by the lactic acid which provides a pH value of 4.2 (28).

An interesting product which includes multiple active principles such as homeopathic agents – Calendula officinalis, Curcuma longa, Hydrastis canadensis or Thymus vulgaris, collagen, hexylresorcinol and bismuth subgallate is represented by Cerviron, a topic agent with intravaginal administration; in atrophic vaginitis is recommended that this product should be administrated 10 days to three weeks in order to reduce local inflammation, to diminish the risk of infection and to provide an efficient healing process of the vaginal mucosa. This product also seem to increase the efficacy of system antibiotic treatment due to the association of hexylresorcinol and to minimise the risk of infectious complications. Meanwhile, the presence of bismuth subgallate seems to diminish the risk of bleeding and to have a hemostatic effect while collagen provides a protective pellicle at the level of the vaginal lining (29-32).

CONCLUSIONS

Although surgical technique significantly improved and so did the postoperative outcome of patients submitted to total hysterectomy with bilateral adnexectomy for both benign and malignant conditions, certain postoperative sequels such as vaginal atrophy still have a significant impact on the quality of life. It has been widely demonstrated that low
levels of oestrogens represent the most important factor for the apparition of these modifications and therefore, topical oestrogen products have been imagined. However, we should not omit the fact that although reduced, systemic absorption of oestrogen might occur, inducing significant risks especially in cases with previous history of oestrogen related malignancies. In this respect, attention was focused on determining which are the active principles which should be introduced in the composition of topical agents in order to diminish and alleviate these symptoms. A promising product which seem to associate multiple active principles is represented by Cerviron, a product with topic, intravaginal administration which associates both pharmacological and homeopathic agents but which does not contain at all any pure or oestrogen derivate.

REFERENCES