The potential protective effect of Hydrastasis Canadensis on the cervico-vaginal lesions

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ABSTRACT

Homeopathic principles have been widely investigated and proposed even from the ancient times in order to treat different wounds, to prevent inflammation and to treat infections. Although initially they have been tested in regard to skin wounds, their use was also tested in regard to different internal viscera with promising results. Therefore, such extracts have been proposed as part of the topical products proposed for treating certain pathologies of the uterine cervix such as infections, cervicitis or even in order to prevent the risk of uterine cervical cancer development.

The aim of the current paper is to discuss about the potential protective role of Hydrastasis Canadensis in treating different cervico-vaginal lesions.

Keywords: Hydrastasis Canadensis, cervico-vaginal lesions, inflammation, angiogenesis

INTRODUCTION

Although uterine cervix is a relatively facile to be examined organ and screening tests for early detection of preneoplastic lesions have been widely implemented so far, uterine cervix cancer still represents a significant health problem in a significant number of countries [1]. Meanwhile, this organ seems to be also predisposed to different types of infectious aggressions leading to the apparition of local inflammation; meanwhile, due to the fact that it is a natural barrier against bacteria, viruses, fungi and parasites, in certain cases uterine cervix is significantly affected by these pathogenic germs and loses the protection function; in such cases all...
these pathogenic microorganisms which can be found at the level of the vaginal and uterine cervix will be no longer impeded to colonize the uterine cavity and even the peritoneal cavity through the fallopian tubes [2-4]. In this respect, attention was focused on creating efficient vaginal topic agents which might destroy these pathogenic microorganisms and in the meantime which might reestablish the normal vaginal flora. Moreover, certain homeopathic agents proved to be particularly efficient in regard to stimulation of collagen synthesis and meanwhile in inhibiting different pro-inflammatory molecules [5].

The aim of the current paper is to discuss the potential benefit of Hydrastasis Canadensis in treating different cervico-vaginal disorders.

THE BENEFITS OF HYDRASTASIS CANADENSIS

Hydrastasis Canadensis represents one of the most commonly used botanical remedies in order to treat allergies, inflammatory disorders or digestive tract disorders. Also known under the name of goldenseal, this small plant originates from North America and has been traditionally used for treating skin and ocular inflammation (figure 1)[6-9]. However, when administrated as part of the alimentary supplements, it should not be omitted the fact that in high concentrations, berberine can become toxic and cause serious conditions such as cardiac arrhythmia and even cardiac arrest [8]. Therefore, attention was focused on administrating this substance as topic agents such as intravaginal ovules; in this way the antibacterian and anti-inflammatory effect of Hydrastasis Canadensis can be efficiently used with minimum systemic side effects due to the almost inexistent systemic absorption.

RATIONALE FOR USING HYDRASTASIS CANADENSIS AS PART OF THE VAGINAL TOPICAL PRODUCTS

When it comes to the role of Hydrastasis Canadensis effect on the gynecological tract it seems that it provides the regularization of the menstrual cycle as well as of the excessive bleeding [8]. Meanwhile, it seems to have a protective role on the uterine cervix erosions improving the quantity and quality of the uterine cervix mucus; therefore it has been included in topic vaginal products with promising results [8].

In the meantime, the antiseptic role of Hydrastasis Canadensis has been widely demonstrated in patients with urinary or vaginal infections; meanwhile it seems...
to have an anti-inflammatory and hemostatic role; the main active compounds are represented by berberine, hydrastine and canadine with an active antimicrobial role against microorganisms such as Entamoeba histolytica, Giardia lamblia, Gardnerella vaginalis and Trichomonas vaginalis [6-8]. Meanwhile, goldenseal extract demonstrated a significant efficacy in treating candida infection especially when located at the level of the mucosa [6]. Chlamydia trachomatis, another common sexually transmitted germ which can cause serious troubles such as infertility or can induce pneumonia or ophthalmological diseases in new born if contamination during vaginal born occur, seems to be also destroyed by berberine [9]. Other studies came to demonstrate that berberine is also effective against herpes virus transmission and replication [9-12].

CONCLUSIONS

Hydrastis Canadensis seems to represent an efficient homeopathic product in treating different cervico-vaginal disorders. The main properties which are to be taken in consideration are represented by the anti-inflammatory, antibacterial and hemostatic role inducing therefore a better healing process at this level. Meanwhile, due to its antibacterial effects it seems to increase the chances to re-establish the normal vaginal microbioma.

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