Expression of local estrogen receptor and progesterone receptor in endometrial polyp in patients with perimenopause and post menopause

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View from specialist; It is creative and of certain scientific and educational value.

[ABSTRACT] Objective: To explore expression of local estrogen receptor (ER) and progesterone receptor (PR) in endometrial polyp in patients with perimenopause and post menopause. Methods: A total of 80 cases with confirmed endometrial polyp, who underwent surgery under hysteroscopy and admitted from June 2010 to June 2012 were selected. They were divided into perimenopause group (n=38) and post menopause group (n=42), and 40 healthy persons with health examination were also selected as control group. Endometrial tissues were extracted. ER and PR protein expression was detected by immunohistochemical SP method, while ER and PR mRNA was detected by RT-PCR. Results: Compared with control group, protein and mRNA expressions of ER and PR in perimenopause group and post menopause group were significantly upregulated (P<0.05 or P<0.01), and the increase in post menopause group was more significant (P<0.05). ER and PR proteins in control group are clearly expressed, with clear boundary. The color was darker and the number was increased in perimenopause group and post menopause group. All proteins were of irregular shape and distributed in disorder. Conclusions: The cause of endometrial polyp is related to change of local hormone level to some extent. Detection of ER and PR in time is helpful to diagnosis and prognosis evaluation of endometrial polyp.

[KEY WORDS] Endometrial polyp; ER; PR; Perimenopause; Postmenopause