

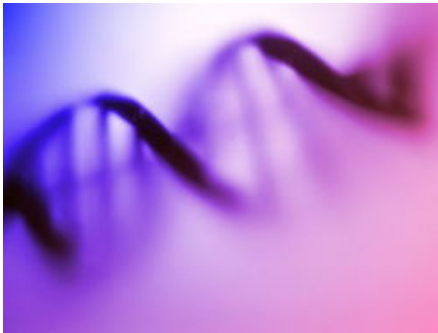
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Upregulation of hTERT and Ki-67 in ectopic endometrium is associated with recurrence of endometriosis

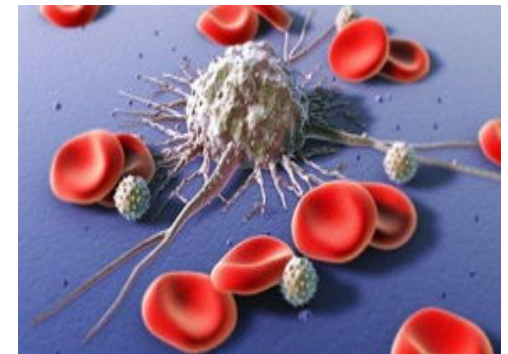
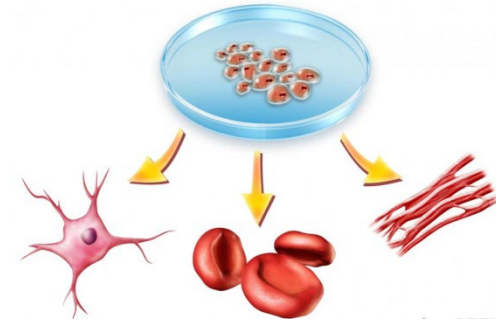
Keywords: Ovarian endometriomas, recurrence, Human telomerase reverse transcriptase, Ki-67, CA125

Research Summary

The main current treatment for endometriosis is surgery to remove endometriotic lesions, however, the recurrence rate following surgical treatment is as high as 21.5% at 2 years and 40%-50% at 5 years post-surgery



In this study, the expression profile and clinical significance of hTERT and Ki-67 in recurrent endometriosis were investigated.

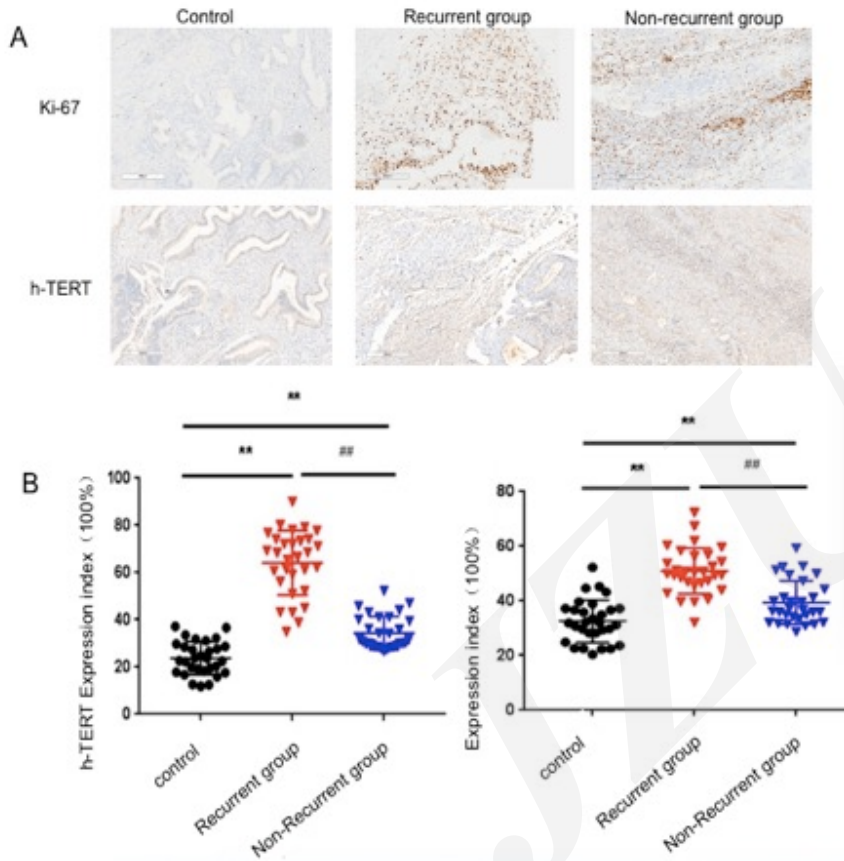


Considering the complex cellular and molecular mechanisms involved in the progression of endometriosis, and the similarities between endometriosis and tumorigenesis and metastasis, we assumed a possible relationship between hTERT and endometriosis development

CA 125 is clinically used as a marker for the diagnosis of endometriosis or therapeutic effect evaluation, CA125 may lead to the upregulation of h-TRET in the endometrium



Innovation points

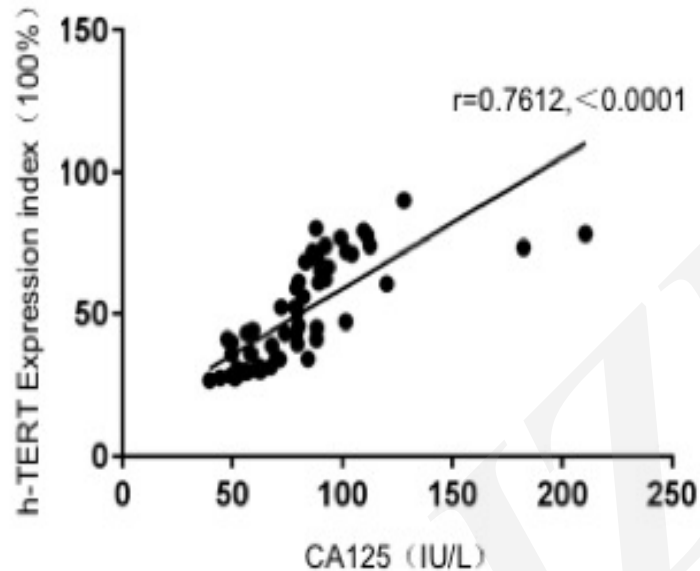


A higher incidence of hTERT and Ki67 expression was observed in ectopic endometrium in the endometriosis groups, as compared with that of eutopic endometrium in the control group .

As for patients with recurrent ovarian endometrioma, the incidence of hTERT and Ki67 expression were significantly higher compared to the non-recurrent ovarian endometrioma patients

Innovation points

Correlation between h-TERT expression index and serum CA125 levels



h-TERT protein expression in ectopic endometrium was positively associated with the serum CA125 levels of patients with ovarian endometrioma