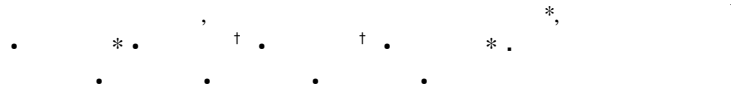


Estrogen Telomerase



=ABSTRACT=

Expression of Estrogen Receptor and Telomerase Activity in Chorionic Villi and Decidua of Early Human Gestation

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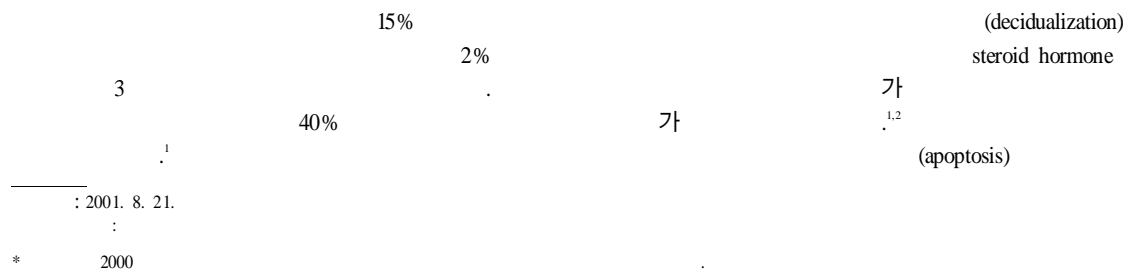
Objective : To investigate whether there is any differences between normal pregnancy (NP) and spontaneous abortion (SAB) regarding estrogen receptor (ER) expression and telomerase activity (TA) in the chorionic villi and decidual tissues.

Methods : Chorionic villi and decidual tissues were obtained between 6 and 9 weeks' gestation from 14 patients with SAB and 17 normal pregnant women who have undergone an elective abortion. All tissue samples were assayed for ER with enzyme immunoassay and also TA was analysed using telomeric repeat amplification protocol.

Results : A significant decrease in ER expression (2.81 ± 2.77 fmol/mg of protein; $p < 0.001$) was demonstrated in SAB group compared to that of NP group (4.56 ± 1.85 fmol/mg) in decidua. However, no significant difference in ER expression in chorionic villi was found between the two groups. SAB group showed significantly lower levels of TA than that of NP group in both chorionic villi (21.4% vs. 82.4%; $p = 0.002$) and deciduas (7.1% vs. 52.9%; $p = 0.009$).

Conclusion : Our results suggest that decreased level of ER expression in deciduas might cause decidual senescence and eventually, spontaneous abortion.

Key Words : Spontaneous abortion, Estrogen receptor, Telomerase activity.



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- Expression of estrogen receptor and telomerase activity -

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 estrogen estrogen 가 estrogen 가 estrogen
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 antiestrogen 가 estradiol 가 가
 Estrogen 가 estrogen 가 estrogen
 estrogen 가 estrogen estrogen telomerase
 Telomere TTAGGG tandem repeat estrogen
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 mitotic clock 10,13 Telomerase
 ribonucleoprotein, RNA dependent DNA polymerase 17
 RNA component template
 telomeric DNA telomere -80°C Hematoxylin-eosin 가
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 estrogen telomerase
 estrogen ERE (estrogen response element) estrogen
 c-Myc telomerase estrogen ER monoclonal kit (Abbott Laboratories, IL,USA) (1 mg/ml)