

**Title: Expression of PTEN marker in endometrial hyperplasia without atypia – One year observational study.**

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**Abstract (upto 300 words)**

**Introduction:** Role of PTEN in endometrial carcinogenesis is of great importance. Loss of PTEN immunohistochemical expression in endometrial hyperplasia is significantly associated with increased overall risk of endometrial carcinoma.

**Aim:** To evaluate PTEN (phosphatase and tension homolog) expression in Endometrial hyperplasia without atypia.

**Material and methods:** 60 cases of histopathologically diagnosed endometrial hyperplasia without atypia were subjected to Immunohistochemical staining with PTEN antibody. The staining intensity and proportion score were evaluated.

**Results:** The study population consisted of total 60 cases of endometrial hyperplasia without atypia. 52 cases had (86.70%) simple hyperplasia and 8 cases (13.30%) had complex hyperplasia. Out of total 60 cases, only 2 cases of complex hyperplasia showed negative staining depicting loss of PTEN. The correlation between endometrial hyperplasia and colour intensity was highly significant with 'p' value of 0.001. Also, correlation between endometrial hyperplasia and proportion score was statistically significant with 'p' value of 0.001.

**Conclusion:** Loss of PTEN expression is rarely seen in cases of hyperplasia without atypia, and if seen needs closer follow up to evaluate for atypia and endometrial carcinoma.

**Clinical significance:** We propose that endometrial hyperplasia without atypia with loss PTEN should be closely followed up for progression to atypia or carcinoma.

**Key words:** Endometrial Hyperplasia without atypia, PTEN, IHC, endometrial cancer

**Biography (upto 150 words)**

Ganga Pilli has completed her MD pathology in 1993 and PhD in the 2016 from KLE University, Belgaum, Karnataka state India. She has served in various capacities at JN Medical College Belgaum for almost 38 years and presently, she is the Head( Chair) of department Pathology at JGM Medical College Hubballi. She has 40 publications in reputed Journals and an author of three books in her speciality. Her research work is focussed on gynecological pathology.

**Recent publication:**

1. Roshini Shekhar, Ganga S. Pilli, Ramadevi V. Wani and Mrityunjay C. Metgud. Role of D-dimer and CA-125 in the detection of ovarian malignancy. J Indian Med Association 2023; 121: 28-31
2. Lakhani A , Wani R , Pilli GS. Expression of PTEN Marker in Endometrial Hyperplasia without Atypia: One-year Observational Study. Journal of South Asian Federation of Obstetrics and Gynaecology, 2023;15: : 10.5005/jp-journals-10006-2160

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