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Methods to detect endometrial carcinoma in a LMIC country like India

Endometrial cancer is the second most common and fourth leading cause of death due to gynaecological malignancy worldwide as recorded in 2020.

In India, the incidence of endometrial cancer is very low as compared to developed countries with a reported incidence of 16,413 cases in 2020. GLOBOCAN 2020 also reported the mortality of 6385 cases and the cumulative risk of diagnosis as 0.75 %.

The risk factors like various reproductive factors such as younger age at menarche and late age at menopause, infertility, nulliparity, age at first delivery and long-term use of unopposed oestrogens during hormone replacement therapy has been associated with a significantly increased risk of developing endometrial cancer. Since the presence of obesity, PCOS, diabetes, oral contraceptives and tamoxifen therapy is being discussed by many studies these factors have gain importance with increased clinical presentations of abnormal bleeding in women few rare conditions like lynch's syndrome.

The investigations involved with this background are clinical findings, transvaginal sonography TVS, cytology mainly liquid based cytology (LBC) both by manual liquid based cytology {MLBC}, semiautomated method like eziprep and endometrial biopsy with ki67 marker studies.

Conclusion: We are presenting few cases to highlight the

importance of various methods of detecting endometrial hyperplasia, endometrial carcinoma so as to detect these conditions at a much early stage.

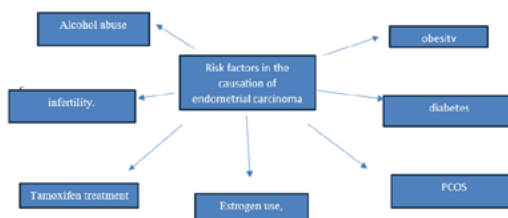


Figure: showing risk factors in the causation of endometrial carcinoma

Biography

Dr Nandini N. M, Professor, JSS Medical College, Mysore, is attached as a teaching faculty from the past 25 years in the department of pathology . She has worked in the field of cytology of cervix and breast. She has attended many national and international conferences in countries like U.K, USA, Singapore and Netherland. She has worked on liquid based cytology, cell block technique and has come up with indegenious methods. She has severael publications and books to her credit written on cervical and breast cancer.