



## Diagnostic Pathology by use of Manual Liquid based Cytology (MLBC) in LMIC

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### Abstract

Liquid based cytology (LBC) is a procedure wherein cells are spread in a monolayer with a clean background. It is usually automated, semi-automated and manual method. Manual liquid based cytology (MLBC) is an indigenous, cost effective method of cytology which we have used in our setup of low middle income group country (LMIC). Also it helps us to use the residual sample for study of ancillary techniques like cell block (CB), immunocytochemistry, ICC and IHC on MLB and CB respectively. Molecular tests like HPV can also be performed.

Aim of the study: to study the utility of MLBC in cervical, breast and thyroid lesions. To use ancillary techniques like CB and Molecular techniques like PCR to improve diagnosis by use of ICC or IHC wherever possible. MLBC was done by using an in house method by use of polymer solution. The systems studied were pap smear screening for cervical lesions, breast, and thyroid. The study was conducted over a period of 5 years till 2020, covering each aspect of MLBC in step wise manner. ICC was conducted on both cervix (p16marker) and breast (ER).IHC was done on CB for cervix (p16, ki67) and breast (ER, PR, HER2).

The results for all the three systems showed good results giving a better diagnostic accuracy of non-neoplastic and neoplastic conditions. MLBC is a complimentary test for routine screening procedure like pap smear screening and FNAC of breast and thyroid. It helps to give a better diagnosis as it helps to remove obscuring factors like blood and inflammatory cells.

### Biography

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 several publications and books to her credit written on cervical and breast cancer.



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