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Comparison between modified ultrafast Papanicolaou stain (MUFP), rapid economic acetic acid Papanicolaou (REAP) and Papanicolaou stain (PAP) in routine cytology

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Objectives: The objective of this study is to compare three stains MUFP (Modified Ultrafast Papanicolaou), REAP (Rapid Economic Acetic acid Papanicolaou) and PAP (Papanicolaou) on routine cytopathology, to assess its utility depending on nuclear characteristics, cytoplasmic details, air drying artefacts, cell morphology and background and to calculate the quality index.

Methods: 100 patients attending fine needle aspiration (FNA) clinic of tertiary hospital of India were selected. Various sites including breast, thyroid, lymph nodes, salivary glands and Gynecological smears were included. Three smears per organ were made and stained with MUFP, PAP and REAP respectively.

Results: Air dried fixed and MUFP stained smears showed clean background. MUFP stained smears showed crisp nuclear characteristics. REAP stained smears were similar and economical to PAP stained smears but nuclear morphology was not very clear.

Conclusions: MUFP is a very good alternative to PAP stain in benign as well as malignant lesions. REAP stain is a good economical alternative in benign lesions.

Biography

Reena Tomar has completed her MD in Pathology from Government Medical College, India in 2010. She is currently an Assistant Professor at Department of Pathology at Maulana Azad Medical College (MAMC), India. She has great interest in cytohistopathology and has published many articles in national and international journals.

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