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Spectrum of different lesion's in pleural effusion on cytopathology

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Introduction: Cytological evaluation of pleural effusion is used routinely in the diagnosis, prognosis and management of inflammatory, benign and malignant lesions. In developing nations like India, pleural effusion cytopathology can aid in the discrimination of reactive, benign and malignant lesions.

Aim: The main aim of the present study was evaluate the spectrum of lesions presenting as pleural effusion and to discuss the cytomorphological features on cytospin smears in the Department of Pathology, Jawaharlal Nehru Medical College; AMU, Aligarh from January 2012 to November 2015.

Methods & Materials: This cross sectional study on 150 pleural tap specimens was stained by the Papanicolaou and Hematoxylin and eosin stains. Lesions were categorized into non neoplastic which included tuberculosis, non specific infections and reactive mesothelial hyperplasia. Neoplastic lesions which are further divided primary, secondary, suspicious for malignancy and malignant cells of unknown primary.

Conclusions: Cytopathology is a useful and reliable tool in discrimination between malignant and benign pleural effusions. However use of pertinent clinical history, cell block analysis with histopathology and immunohistochemical studies is accessory investigative tools in few atypical cases.

Biography

Murad Ahmed has completed his MD (Pathology) from Jawaharlal Nehru Medical College, Aligarh Muslim University, India. He is presently working as Senior Resident in the Department of Pathology. He has published 10 papers in reputed journals. He has published a book entitled "*ER, PR and EGFR2 Status in the Variants of Female Breast Duct Carcinoma*" published by Lap Lambert Academic Publication, Germany 2013. He has also attended more than 20 conferences/ CME and has presented oral & poster presentation in 13 conferences.

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