

## EFFICACY OF PLEURAL BRUSH CYTOLOGY IN DIAGNOSIS OF PLEURAL DISEASES

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**Introduction:** Medical thoracoscopy has an established role in the achieving etiology of pleural effusion. Thorascopic guided pleural biopsy though provides good yield but is limited by a delay of three to five days. We, in this study, used pleural brushings obtained by using bronchoscopy brush through the working channel of rigid thoracoscopy. The hypothesis was that cytology gives earlier results and if the results of cytology are concordant with pleural biopsy, it may help early institution of therapy.

**Aims & Objectives:** The aim of this study is to access feasibility of brush smear from parietal pleura during thoracoscopy and to study efficacy of pleural brushing by comparing its cytology with pleural biopsy.

**Material & Methods:** All consecutive patients of undiagnosed pleural effusion by routine investigations of pleural fluid, who were subjected to medical thoracoscopy during the period between Dec2015 to June 2017 were included in the study. After informed consent, brush smears and pleural biopsies were obtained from the suspected sites of parietal pleura during thoracoscopy. The results of cytology of brush smears were assessed and compared with results of pleural biopsy.

**Results:** 45 patients were recruited during the study period of 1.5 years, mean age was 59.68 years. Nodule was the most common finding on thorascopic examination. Brush cytology report when compared to that of pleural biopsy the concordance was seen in 80%, which is highly significant. Detail study will be presented

## BIOGRAPHY

Varuna Jethani has done her post-graduation in pulmonary medicine from Swami Rama Himalayan University, Jollygrant Dehradun. Now She is working as Assistant Professor in pulmonary medicine department in same university. She has 10 publications in reputed journals. She is editorial board member of EC pulmonary and Respiratory Medicine .

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