

Title: Comparision of Sputum Cytology with Broncho Alveolar Lavage in the diagnosis of Lung Cancer: A Hospital based Study in B.P.K.I.H.S

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Background: Lung cancer is one of the commonest cancers and cause of cancer-related deaths over the world. It accounts for 19% of cancer-related deaths worldwide. In Nepal, lung cancer is the commonest cancer among male and third most common cancer in the female population. Cytology is being increasingly used for the evaluation and diagnosis of pulmonary malignancies. Commonly used modalities are Sputum and BAL Cytology. **Objective:** To compare the Sputum cytology with BAL cytology in the diagnosis of lung cancer and correlating them with trans-bronchial biopsy. **Methods:** Cross sectional study was conducted with a sample size of 34. All patients presenting to department of pathology with sputum, BAL and bronchial biopsy samples for evaluation of lung cancer were included. **Results:** Sensitivity, Specificity, PPV & NPV for Sputum were 38.09%, 100%,100% and 33% whereas those for BAL were 68.4%, 100%, 92.8%, 42.8% respectively. Diagnostic efficacy of biopsy in suspected lung cancer was 64.5%. Smoking showed statisticaclly significant association with cancer. **Conclusion:** BAL is superior to sputum cytology in detecting lung malignancy with higher sensitivity as well as higher NPV. In limited resource , sputum can still be undertaken as a tool for lung cancer screening wherein other facilities are not available.

Biography

Dr. Smriti Karki has completed her MD Pathology at the age of 30 years from B.P. Koirala Institute Of Health Sciences, Dharan, Nepal. She is the Professor of department. She has published more than 35 papers in reputed journals.

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