

**Relationship of Various Characteristics of Lung
Adenocarcinoma Patients with Status of Mutation of
Epidermal Growth Factor Receptor (EGFR) In Haji Adam
Malik Medan Hospital 2015-2017**

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Abstract : Lung cancer is a major cause of malignancy in the world, reaching up to 13% of all cancer diagnoses. In addition, lung cancer also causes 1/3 of all chemotherapy caused by cancer in men. Of the types of *Non Small Cell Lung Carcinoma (NSCLC)*, pulmonary adenocarcinoma is the most common. Various characteristics of patients such as age, gender, occupation, ethnicity, smoking status and *EGFR* mutation status. This study was conducted to provide an overview of the distribution and frequency of all these characteristics, and find a relationship of various characteristics of adenocarcinoma patients based on gender, ethnicity and smoking status with *EGFR* mutation status in Haji Adam Malik General Hospital Medan 2015-2017. This research is descriptive-analytic with a cross sectional approach. Data on patient characteristics are obtained from medical records and cytology / histopatology images and the results of *EGFR* mutations have been examined and the results are known. In this study most of the patients were 55-64 years old. From the analysis of the relationship between sex with *EGFR* mutation status, *p value* = 0.043, analysis of the relationship between smoking status and *EGFR* mutation status, obtained *p value* = 0.040, while the analysis between the terms and mutation status obtained *p value* = 0.11.

Keywords : Lung adenocarcinoma, *EGFR* mutation, *EGFR*.

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