Diagnosis of EGFR deletion mutation in lung cancer patients’ cells”

 Name:

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ABSTRACT

Background

 Lung cancer is one of the most common type of cancers worldwide.Mutations in EGFR gene is frequently observed in lung tumours which points to it’s clinical relevance in targeted therapies.EGFR gene tends to be muated at very specific locations.One such mutation is observed in exon 19.

Objective

The aim of this study is to detect EGFR deletion mutation at exon 19 in lung cancer patients.

Methods

Samples were collected from 2 lung cancer patients-Sample A and B.EGFR deletion mutation at exon-19 was detected using molecular techniques.DNA was extracted from the given sample,purified and amplified by PCR.-BIPASA assay followed by agarose gel electrophoresis to detect the mutation.

Result

EGFR deletion mutation at exon-19 was observed in one of the samples(Sample B).This indicates clinical significance of EGFR deletion mutation in patient outcomes and treatment response.

Conclusion

This study represents a significant advance in our understanding of EGFR deletion mutations in lung cancer.By running agarose gel electrophoresis,we can accurately idemtify these mutations,permitting clinicians to make improved treatment decisions,thereby providing high quality care to lung cancer patients..