

中国肺癌杂志。PISSN 1009-3419

首页 | 关于我们 | 登录 | 注册 | 搜索 | 最新一期 | 过刊浏览 | 公告 | 稿约 | 在线投稿 |

Online submission

Endnote参考文献模板 提前在线出版

Clinical Significance of CK20, CK19, CEA mRNAs in Peripheral Blood from Lung Cancer Patients

Ying GUO, Jingmei WANG, Peilin HUANG

摘要

Background and objective The tumor cells may disseminate into circulation even in early stages. However, the numbers of such cells are so small that they cannot be detected by conventional diagnostic methods. Developments in molecular technology have made it possible to detect small numbers of tumor cells in peripheral blood. In this study, 83 preoperative peripheral blood samples from patients with lung cancer were analyzed for the determination of CEA, CK19, and CK20 mRNA expression in peripheral blood, and its clinical significance was evaluated. Methods Nested reverse transcriptasepolymerase chain reaction (nested RT-PCR) was used to analyze CEA, CK19, and CK20 mRNA expression in peripheral blood. Fresh tumor tissues from patients with esophageal cancer (n=15) were used as a positive control, and blood samples from 15 healthy volunteers as a negative control. Results Among 83 blood samples from patients with lung cancer, the expression of CK20, CK19 and CEA mRNA was 41.0%, 36.1% and 48.2%, respectively. 73.5% were positive for at least one markers for these three genes, and were significantly correlated with the metastasis of the cancer (P < 0.05), but had no correlation with age and sex. In primary esophageal tumors, 15 tumor tissues were all positive for CEA, CK19, and CK20 mRNA. 2 of 15 blood samples from healthy donors were positive for CK19 and CEA mRNA, and 1 of 15 blood sample positive for CK20 mRNA. Conclusion The three markers of CK20, CK19 and CEA mRNA could be the target genes in detecting circulating tumor cells in peripheral blood from patients with lung cancer. The combined detection of CK20, CK19 and CEA mRNA by RT-PCR assay may contribute to the PCR positivity and sensitivity, and CK20, CK19, CEA mRNA expression increase the specificity.

全文: PDF HTML



ARTICLE TOOLS



索引源数据



💶 如何引证项目



🔟 查找参考文献



审查政策

Email this article (Login required)

RELATED ITEMS



Related studies **Databases** Web search



💐 Show all

ABOUT THE **AUTHORS**

Ying GUO

Jingmei WANG

Peilin HUANG





