

## TS mRNA 水平对食管癌化疗的预测价值

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### Thymidylate Synthase mRNA Level in Untreated Esophageal Cancer Tissue and Its Prediction to Efficacy of Chemotherapy with Cisplatin and 5-fluorouracil

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#### 摘要

**目的** 探讨化疗前食管癌组织中胸苷酸合成酶(thymidylate synthase,TS)转录水平及其对顺铂/5-氟脲嘧啶(DDP/5-Fu)疗效的预测价值. **方法** 20例食管癌患者均接受2个周期DDP/5-Fu化疗.DDP 15~20 mg/m<sup>2</sup>/d,iv d1-5; 5-Fu 375~500 mg/m<sup>2</sup>/d,ivgtt 8 h,d1-5,休息4周后,进行第二个周期化疗.以β-肌动蛋白(β-actin)作内参照,应用半定量RT-PCR技术检测化疗前食管癌组织中TS mRNA水平,以TS/β-actin比值表示.实验数据经SPSS 10.0统计软件处理,化疗有效和无效组间TS mRNA水平间差异分析采用Wilcoxon秩和检验;双侧检验,α取0.05作为显著性检验的标准. **结果** 20例食管癌患者中,11例化疗有效者的TS/β-actin mRNA水平中位值为3.90×10<sup>-1</sup>,而9例化疗无效者的TS/β-actin mRNA水平中位值为9.10×10<sup>-1</sup>,两组差异具有统计学意义(P<0.05). **结论** 化疗前食管癌组织中TS mRNA水平对应用DDP/5-Fu治疗食管癌的疗效具有一定预测价值.

**关键词:** 食管癌 胸苷酸合成酶 顺铂 5-氟脲嘧啶 疗效

**Abstract:** **Objective** To evaluate the predictive effect of the thymidylate synthase mRNA level to the response of the chemotherapy with cisplatin and fluorouracil in untreated esophageal cancer by detecting the thymidylate synthase. **Methods** 20 patients with untreated esophageal cancer accepted two cycles combined chemotherapy with cisplatin and 5-fluorouracil. cisplatin 15~20mg/ m<sup>2</sup> /d was intravenously infused in consecutive five days and 52fluorouracil 375~500 mg/ m<sup>2</sup> / d was intravenously infused for eight hours per day in consecutive five days per cycle, there were four weeks gap between two cycles. β-actin was used as an internal reference gene and the mRNA level of TS/β-actin in esophageal cancer tissue was determined by semi-quantitative reverse-transcription polymerase chain reaction (RT2PCR). Data was analysed by Wilcoxon rank sum test in SPSS 10.0 statistical program. There was a statistical significance, when P< 0.05 occurred with two-sided test. **Results** For 20 untreated esophageal cancer patients, the median of TS mRNA level from 11 responding patients was higher than that of 9 nonresponding patients. There was a significant difference between the two groups (Wilcoxon rank sum test, P < 0.05). **Conclusion** The TS mRNA level has a certain predictive value to the efficacy of chemotherapy with cisplatin and fluorouracil in esophageal cancer.

**Key words:** Esophageal cancer Thymidylate synthase Cisplatin 5-fluorouracil Efficacy

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