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王珍芳,万卫星,郁春景.食管癌中氟代脱氧葡萄糖摄取水平与葡萄糖转运蛋白1表达的关系及其临床意义[J].中国医学影像技术,2009,25(11):2110~2113

食管癌中氟代脱氧葡萄糖摄取水平与葡萄糖转运蛋白1表达的关系及其临床意义

## Correlation between FDG uptake and the expression of GLUT1 in esophageal cancer and clinical significance

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中文摘要:

目的 探讨食管癌组织中氟脱氧葡萄糖F18(<sup>18</sup>F-FDG)的摄取靶本比(T/N)和葡萄糖转运蛋白1(GLUTI)表达的关系,分析T/N与食管癌分期、病灶浸润深度、淋巴结转移和预后的关系。 方法 对35例食管癌患者术前行<sup>18</sup>F-FDG符合线路显像,术后应用SP免疫组织化学方法检测食管癌组织标本,并与10名正常人食管组织活检标本对比观察GLUTI蛋白表达。 结果 35例食管癌患者病变部位均见不同程度的异常放射性浓聚灶,经病理证实均为原发性食管鳞癌,其中82.86%(29/35)T/N≥2.0(4.86±2.08),其余17.14%(6/35)T/N≥2.0(1.65±0.18)。 35例食管癌组织均有GLUTI蛋白表达,阳性细胞率为(80.00±19.10)%,10名正常人食管组织中均无GLUTI表达。FDG摄取值(T/N)与GLUTI蛋白表达呈显著正相关(r=0.786,P<0.001)。T/N与患者的临床分期、肿瘤浸润深度、患者生存期有关系(P<0.05),但T/N与淋巴结转移无明显关系。 结论 食管癌中FDG摄取水平(T/N)与GLUTI表达有直接的关系,T/N对确定食管癌患者的临床分期及预后判断有较大的帮助,对原发肿瘤和淋巴结转移的定性诊断价值有限。

## 英文摘要:

Objective To analyze the correlation of  $^{18}$ F-fluorodeoxyglucose ( $^{18}$ F-FDG) uptake (T/N) and expression of glucose transporter-1 (GLUTI) in patients with esophageal cancer, and the relationship between T/N and tumor staging, infiltration depth, lymph node metabasis and prognosis. **Methods** A total of 35 patients with esophageal cancer underwent  $^{18}$ F-FDG SPECT examinations before surgery. The expressions of GLUTI in 35 patients and 10 normal esophageal tissues were evaluated with sterpavidin peroxidase (SP) immunohistochemistry. **Results** There were abnormal radioactive high uptake regions on SPECT imaging of esophagus in the 35 patients, which were confirmed by pathology as the primary esophageal squamous cell carcinoma. T/N was found higher than or equal to 2.0 (4.86 $\pm$ 2.08) in 29 (29/35, 82.86%), while lower than 2.0 (1.65 $\pm$ 0.18) in 6 patients (6/35, 17.14%). All the 35 tumors tested were GLUTI positive, and the positive tumor cell area was (80.00 $\pm$ 19.10)%, whereas 10 normal esophageal tissues tested were GLUTI negative. Correlation was found among FDG uptake (T/N) and GLUTI expression (r=0.786, P<0.001), as well as T/N and staging, infiltration depth, survival time (P<0.05), but not with lymph node metabasis. **Conclusion** FDG uptake (T/N) appears to be correlated with GLUTI expression in patients with esophageal cancer. T/N shows great value in staging and prognosis judgement, but has limited value in qualitative diagnosis.

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