

## FoxP<sub>3</sub> mRNA 在胃癌患者CD4<sup>+</sup>CD25<sup>+</sup>调节性T细胞中的表达及其临床意义

付泽娴\*, 孟繁杰, 李保东, 李冬斌, 谢绍建, 陈小贺, 范晓燕, 蔡建辉

050000 石家庄, 河北医科大学第二医院胃肠外科 (\* 现工作单位: 056000 邯郸, 河北工程大学附属医院普外科)

### Clinical Significance of FoxP<sub>3</sub> mRNA Expression in CD4<sup>+</sup>CD25<sup>+</sup> Regulatory T Cells Isolated from Patients with Gastric Cancer

FU Ze-xian, MENG Fan-jie, LI Bao-dong, LI Dong-bin, XIE Shao-jian, CHEN Xiao-he, FAN Xiao-yan, CAI Jian-hui

Department of Gastrointestinal Surgery, The Second Affiliated Hospital, Hebei Medical University, Shijiazhuang 050000, China (\* Present: Department of General Surgery, The Affiliated Hospital of Hebei University of Engineering)

- 摘要
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**摘要** 目的 探讨胃癌患者体内CD4<sup>+</sup>CD25<sup>+</sup>调节性T细胞的含量及FoxP<sub>3</sub> mRNA在Treg中的表达情况及其临床意义。方法 应用流式细胞术 (FCM) 测定20例胃癌患者外周血中Treg细胞含量, 同时采用RT-PCR技术检测其FoxP<sub>3</sub> mRNA的表达情况, 并与20例健康志愿者的外周血进行对比研究和统计学分析。结果 胃癌患者外周血中Treg细胞占CD4<sup>+</sup>T细胞总数的(12.76±0.46)%, 显著高于健康对照组的(6.81±0.66)%, (P<0.01); FoxP<sub>3</sub> mRNA在胃癌患者外周血Treg细胞中呈现高表达(0.84±0.02)%, 明显高于其在健康对照组中表达(0.76±0.03)%, (P<0.05)。结论 胃癌患者外周血中Treg的数量较正常人明显增高, 同时伴随有FoxP<sub>3</sub> mRNA高表达, 提示FoxP<sub>3</sub> 基因可能对Treg有重要的调节功能, 从而影响胃癌病人的抗肿瘤自身免疫功能。

**关键词:** 调节性T细胞 胃癌 FoxP<sub>3</sub>mRNA 流式细胞术

**Abstract:** Objective To investigate the contents of CD4<sup>+</sup>CD25<sup>+</sup>T cells and the expression of FoxP<sub>3</sub> mRNA in these Treg cells in peripheral blood of the patients with gastric cancer and to characterize their clinical significance. Methods By using flow cytometry, the levels of CD4<sup>+</sup>CD25<sup>+</sup>T cells in peripheral blood of 20 preoperative patients with gastric cancer were determined. RT-PCR techniques were used to detect the expression of FoxP<sub>3</sub> mRNA in these Treg cells, and the results were analyzed statistically in comparison with that of 20 healthy volunteers. Results The percentage of CD4<sup>+</sup>CD25<sup>+</sup>T cells in total CD4<sup>+</sup>T cells isolated from the patients with gastric cancer was (12.76±0.46)%, in comparison, it was (6.81±0.66)% in those from healthy volunteers. It was obviously different between Treg cells amount of gastric patients and that of volunteers (P<0.01). The FoxP<sub>3</sub> mRNA expression of Treg cells in the patients with gastric cancer (0.84±0.02)%) was significantly higher than that in healthy volunteers ((0.76±0.03)%, (P<0.05). Conclusion The levels of CD4<sup>+</sup>CD25<sup>+</sup>T cells in peripheral blood and the FoxP<sub>3</sub> mRNA expression of Treg cells in gastric cancer patients were increasing significantly. FoxP<sub>3</sub> genes may play a pivotal role in regulating the function of Treg cells in self-tumor immunity of the patients with gastric cancer.

**Key words:** Regulatory T cell Gastric cancer FoxP<sub>3</sub> mRNA Flow cytometry

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