



[首页](#)

[期刊概况](#)

[编委会](#)

[期刊内容](#)

[特邀审稿](#)

[投稿指南](#)

[出版发行](#)

315~319.喉鳞癌患者外周血CD45 low CD34 + KDR + 内皮祖细胞的检测及其临床意义[J].董龙宝,厉倩,徐林根,田振华,谭龙益.中国肿瘤生物治疗杂志,2011,18(3)

喉鳞癌患者外周血CD45 low CD34 + KDR + 内皮祖细胞的检测及其临床意义 [点击下载全文](#)

[董龙宝](#) [厉倩](#) [徐林根](#) [田振华](#) [谭龙益](#)

中国人民解放军第455医院 耳鼻咽喉头颈外科, 上海 200052,上海市第一人民医院宝山分院 检验科, 上海200940,复旦大学 附属金山医院 耳鼻咽喉头颈外科, 上海 200540,中国人民解放军第455医院 耳鼻咽喉头颈外科, 上海 200052,上海市第一人民医院宝山分院 检验科, 上海200940

基金项目: 上海卫生局青年科技基金项目 (No.2007Y43)

DOI:

摘要:

目的: 研究喉鳞癌患者外周血中循环CD45 low CD34 + KDR + 内皮祖细胞 (endothelial progenitor cells, EPCs) 的水平及其与喉鳞癌发生、发展的相关性。方法: 收集2010年2月至2011年2月20例喉鳞癌患者外周血标本, 10例健康志愿者外周血作为对照。流式细胞术检测CD45 low CD34 + KDR + EPCs占外周血CD34 + 造血干细胞或外周血淋巴细胞的比例, 实时定量PCR检测PBMC中KDR mRNA和CD133 mRNA的表达水平, ELISA与Griess法分别检测血清中VEGF和NO的水平。结果: 临床II期~IV期的喉鳞癌患者外周血CD45 low CD34 + KDR + EPCs占CD34 + 造血干细胞的比例和占淋巴细胞的比例均较健康对照组明显升高[ (55.4±11.4)% vs (21.0±5.8)%, P <0.05; (1.27±0.25) vs (0.25±0.09), P <0.05]。临床II期~IV期喉鳞癌患者PBMC中KDR mRNA和CD133 mRNA的表达水平及血清中VEGF水平均明显高于健康对照组 ( P <0.05), NO水平没有明显差异; 而临床I期的喉鳞癌患者CD45 low CD34 + KDR + EPCs比例、KDR mRNA和CD133 mRNA表达以及VEGF水平与健康对照组相比无差异。结论: 晚期喉鳞癌患者外周血循环CD45 low CD34 + KDR + EPC和血清中VEGF水平均明显升高, 可能与肿瘤的发生有关。

关键词: [喉癌](#) [鳞癌](#) [内皮祖细胞](#) [血管内皮生长因子](#)

Detection of CD45 low CD34 + KDR + endothelial progenitor cells in laryngeal squamous carcinoma patients and their clinical significance [Download Fulltext](#)

[DONG Long-bao](#) [LI Qian](#) [XU Lin-Gen](#) [TIAN Zhen-hua](#) [TAN Long-yi](#)

Department of Otolaryngology, No. 455 Hospital of PLA, Shanghai 200052, China, Department of Clinical Laboratory, Baoshan Branch of Shanghai First People's Hospital, Shanghai 200940, China, Department of Otolaryngology, Jinshan Hospital Affiliated to Fudan University, Shanghai 200540, China, Department of Otolaryngology, No. 455 Hospital of PLA, Shanghai 200052, China and Department of Clinical Laboratory, Baoshan Branch of Shanghai First People's Hospital, Shanghai 200940, China

Fund Project: Project supported by the Science Foundation for Young Scholars from Health Bureau of Shanghai (No. 2007Y43)

Abstract:

Objective: To study the ratio of circulating CD45 low CD34 + KDR + endothelial progenitor cells (EPCs) in peripheral blood of laryngeal squamous carcinoma patients, and to investigate its relationship with the development and progress of laryngeal squamous carcinoma. Methods: Blood samples from 20 laryngeal squamous carcinoma patients, who were diagnosed from Feb. 2010 to Feb. 2011, and 10 healthy volunteers were included in the present study. The ratio of CD45 low CD34 + KDR + EPCs in peripheral CD34 + haemopoietic stem cells or peripheral lymphocytes was detected by flow cytometry, the expressions of KDR and CD133 mRNA in PBMC were examined by real-time RT-PCR, and the levels of VEGF and NO in plasma were assayed by ELISA and Griess assay, respectively. Results: The ratios of CD45 low CD34 + KDR + EPCs in both peripheral CD34 + haemopoietic stem cells and peripheral lymphocytes of laryngeal squamous carcinoma patients in stage II-stage IV were significantly higher than those in healthy volunteers [(55.4±11.4)% vs [21.0±5.8]%, P <0.05; [1.27±0.25] vs [0.25±0.09], P <0.05). The expressions of KDR and CD133 mRNA and the level of plasma VEGF in laryngeal squamous carcinoma patients of stage II-stage IV were significantly higher than those in healthy volunteers ( P <0.05), but there was no significant difference in NO level. The ratio of CD45 low CD34 + KDR + EPCs, the expression of KDR mRNA and CD133 mRNA, and the level of plasma VEGF in laryngeal squamous carcinoma patients of stage I were similar to those in healthy volunteers. Conclusion: The ratio of circulating CD45 low CD34 + KDR + EPCs in peripheral blood and serum VEGF in advanced laryngeal squamous carcinoma patients are increased, which may be related to the development of tumors.

Keywords: [laryngeal carcinoma](#) [squamous cell carcinoma](#) [endothelial progenitor cells](#) [VEGF](#)

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

Copyright © Biother.Org™ All Rights Reserved

主管单位: 中国科学技术协会 主办单位: 中国免疫学会、中国抗癌学会

地址: 上海市杨浦区翔殷路800号 邮政编码: 200433 京ICP备06011393号-2

本系统由北京勤云科技发展有限公司设计