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[1]陈凯,李中虎,江鹏,等.CD44、CD133和TF与肝癌中门静脉癌栓形成及恶性预后相关[J].第三军医大学学报,2014,36(10):1068-1073.



Chen Kai, Li Zhonghu, Jiang Peng, et al. CD44, CD133 and TF correlate with formation of portal vein tumor thrombus and poor prognosis in patients with hepatocellular carcinoma[J]. J Third Mil Med Univ, 2014, 36(10):1068-1073.



CD44、CD133和TF与肝癌中门静脉癌栓形成及恶性预后相关。 分享

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Title: CD44, CD133 and TF correlate with formation of portal vein tumor

thrombus and poor prognosis in patients with hepatocellular

carcinoma

作者: 陈凯; 李中虎; 江鹏; 张曦; 张玉君; 江艳; 李晓武

第三军医大学西南医院全军肝胆外科研究所

Author(s): Chen Kai; Li Zhonghu; Jiang Peng; Zhang Xi; Zhang Yujun; Jiang Yan; Li

Xiaowu

Institute of Hepatobiliary Surgery, Southwest Hospital, Third Military Medical

University, Chongqing, 400038, China

关键词: 肝细胞癌; CD44; CD133; 组织因子; 免疫组织化学; 预后

Keywords: hepatocellular carcinoma; CD44; CD133; tissue factor; immunohistochemistry;

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摘要: 目的 探讨肝癌干细胞表面标志物CD44、CD133与组织因子(tissue factor, TF)在

> 肝癌组织中的表达及分析其与肝癌临床病理资料及生存预后间的相互关系。 应用免疫组化法检测387例肝癌组织中CD44、CD133和TF的表达,比较其表达与 ①387例肝癌组织中CD44、CD133和 肝癌临床病理资料及预后间的关系。 结果 TF的阳性率分别为60.47%、55.81%和65.12%; CD44与CD133双阳性表达(CD44⁺ CD133[†])阳性率41.60%; CD44、CD133和TF三阳性表达(CD44[†] CD133[†] TF[†])阳性率 35.14%; ②CD44、CD133与TF单独阳性表达以及CD44+ CD133+和CD44+ CD133+ TF+均 与肝癌患者门静脉癌栓、TNM 分期和Edmendson分级具显著相关性(P<0.01); ③ CD90、CD44和CD133蛋白表达呈正相关(P<0.01): ④CD44、CD133和TF阳性组的总生存 时间短于阴性组,差异有统计学意义(P<0.05); CD44 $^{\dagger}CD133$ † 组总生存时间短于非CD44 † CD133⁺组总生存时间及CD44⁺ CD133⁺ TF⁺组总生存时间短于非CD44⁺ CD133⁺ TF⁺组,差 异均有统计学意义(P<0.01);⑤多因素分析门静脉癌栓、TF † 、CD44 † CD133 † 和CD44 †

> > 结论

CD44、CD133和TF

均与门静脉癌栓形成及恶性预后密切相关,可作为判断患者预后的指标。

CD133⁺ TF⁺是影响肝癌预后的独立危险因数(P<0.01)。

Abstract: Objective Investigate the expression of CD44, CD133 and tissue factor (TF) and

> their clinicopathologic significance in hepatocellular carcinoma (HCC). Methods The expression of CD44, CD133 and TF was detected using

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immunohistochemistry in 387 liver tissue samples from HCC patients. We further evaluated the relationship between the expression and clinical pathology and Results prognosis of HCC. The positive expression rates of CD44, CD133 and TF in HCC patients were 60.47%, 55.81%, and 65.12%, respectively. The positive rate of co-expression of CD44 and CD133 (CD44⁺ CD133⁺) was 41.60%. The positive rate of co-expression of CD44, CD133 and TF (CD44⁺ CD133⁺ TF⁺) was 35.14%. Clinical analysis showed that single expression of CD44, CD133 or TF was associated with portal vein tumor thrombus, TNM staging and grading of Edmendson. CD44⁺ CD133⁺ and CD44⁺ CD133⁺ TF⁺ had the same results (P<0.01 and P<0.01, respectively). The difference of survival rate between CD44-positive and CD44-negative groups was observed, and the CD133-positive and CD133-negative groups as well as the TF-positive and TF-negative groups had the same result (P<0.01 all). The protein expression CD90, CD44 and CD133 was positively correlated (P<0.01). The total survival time of CD44, CD133 and TF positive groups was shorter than the negative groups and the differences were statistically significant (all P<0.01). The total survival time of CD44⁺ CD133⁺ group was shorter than that of non-CD44⁺ group (P<0.01). The total survival time of CD44⁺ CD133⁺ TF⁺ group was shorter than that of non-CD44⁺ CD133⁺ TF⁺ group and the differences were statistically significant (P<0.01). Multivariate analysis suggested that portal vein tumor thrombus, TF⁺, CD44⁺ CD133⁺ and CD44⁺ CD133⁺ TF⁺ were the independent risk factors of the prognosis of HCC (P<0.01 all). The positive expression of CD44, CD133 and TF is associated with each other and closely correlated with the formation of portal vein tumor thrombus, indicating the poor prognosis of HCC.

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