

## 血管内皮生长因子(VEGF)、CA125和CA72-4联合检测诊断卵巢癌的临床价值探讨

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**中文摘要:**目的探讨VEGF、CA125和CA72-4联合检测在卵巢癌诊断中的应用价值。方法诊断明确的卵巢癌患者68例、卵巢良性肿瘤患者45例以及正常对照40例,血清VEGF检测采用ELISA法,CA125、CA72-4采用美国ARCHITECT i2000SR免疫分析仪检测;利用ROC曲线评价3种指标单独和联合检测诊断卵巢癌的效能。结果卵巢癌患者血清VEGF、CA125、CA72-4表达均高于卵巢良性肿瘤组和正常对照组( $P<0.05$ )。ROC曲线分析:VEGF、CA125、CA72-4诊断卵巢癌的曲线下面积(AUC)分别是0.792, 0.834, 0.711, 3项指标联合的AUC是0.921, 3项指标联合检测的AUC大于单项检测( $P<0.05$ )。单项检测中CA125敏感性(69.2%)最高,CA72-4的特异性(88.2%)最好, 3项指标联合检测的敏感性和特异性分别为81.0%和84.7%。结论VEGF、CA125、CA72-4三种指标联合检测能有效提高卵巢癌诊断的准确度。

**中文关键词:** [卵巢癌](#) [VEGF](#) [CA125](#) [CA72-4](#)

## Diagnostic Evaluation of Vascular Endothelial Growth Factor (VEGF), CA125 and CA72-4 Combinedly in Detecting Ovarian Cancer

**Abstract:** Objective To evaluate the diagnostic value of the combination detection of vascular endothelial growth factor (VEGF), CA125 and CA72-4 in ovarian cancer. Methods The level of VEGF was measured in 68 cases of ovarian cancer patients, 45 cases of benign ovarian tumor patients and 40 cases of healthy control women by ELISA method. The serum levels of CA125 and CA72-4 were measured by ARCHITECT i2000SR immunoassay at the same time. The diagnostic efficacy of one marker and the three markers combined in detection in ovarian cancer was evaluated by ROC curve. Results The levels of VEGF, CA125 and CA72-4 in ovarian cancer patients were higher than those of the benign group and the control group ( $P<0.05$ ). The area under the ROC curve (AUC) of VEGF, CA125 and CA72-4 to diagnose ovarian cancer were 0.792, 0.834, 0.711. The AUC of three indicators combined in ovarian cancer was 0.921. And the AUC of three indicators combined in detection in ovarian cancer was higher than one marker detection in ovarian cancer ( $P<0.05$ ). The sensitivity of CA125 (69.2%) was higher than the other indicators, and the specificity of CA72-4 was higher than the other indicators. The sensitivity and the sensitivity of three indicators combined in detection in ovarian cancer were 81.0% and 84.7%. Conclusion The combined detection of VEGF, CA125 and CA72-4 can improve the diagnostic accuracy of ovarian cancer.

**keywords:** [Ovarian cancer](#) [VEGF](#) [CA125](#) [CA72-4](#)

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