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## 超声造影与乳腺癌肿瘤微血管密度测定的相关性

### Study on the correlation between contrast-enhanced sonography and MVD in breast cancer

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英文关键词: [Ultrasonography](#) [Contrast media](#) [Breast neoplasms](#) [Microvessel density](#) [Vascular endothelial growth factor](#)

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#### 中文摘要:

目的 研究乳腺癌超声造影与肿瘤微血管密度(MVD)的相关性。方法 乳腺癌49例术前接受超声造影检查,应用时间-强度曲线分析软件测定定量参数,所得参数与术后病理组织免疫组化染色测得的MVD和血管内皮生长因子(VEGF)表达对照,进行相关性分析。结果 峰值强度、增强强度指数与MVD、VEGF表达显著正相关( $P<0.01$ ),始增时间、峰值时间与VEGF表达负相关( $P<0.05$ ),但与MVD无相关性( $P>0.05$ ),曲线上升支斜率、平台持续时间与MVD、VEGF表达均无相关性( $P>0.05$ )。结论 超声造影峰值强度、增强强度指数与MVD、VEGF表达显著相关,可以作为定量评价肿瘤血管生成的依据。

#### 英文摘要:

Objective To observe the correlation between contrast-enhanced sonography and microvessel density (MVD) in breast cancer. **Methods** Contrast-enhanced sonography was performed in 49 women with breast cancer before surgery. The time-intensity curve (TIC) on the enhanced images was analyzed quantitatively with computer. Vascular endothelial growth factor (VEGF) expression and MVD tagged by CD34 were measured by immunohistochemistry in the above 49 breast cancers after operation. Parameters of TIC were compared with MVD, VEGF expression, and the correlation were statistically studied. **Results** The peak intensity and enhancement intensity-index were correlated significantly to MVD and VEGF expression of histological section after operation. The arrived time and peak time were correlated to VEGF expression ( $P<0.05$ ) but not with MVD ( $P>0.05$ ). The platform time, rise slope rate of the curve were not correlated to MVD and VEGF expression. **Conclusion** The peak intensity and enhancement intensity-index are correlated significantly to MVD and VEGF expression. They are valuable indexes in evaluating angiogenesis in breast cancer.

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