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Title: Expression and significance of cathepsin S and NF- κ B p65 in abdominal aortic aneurysm

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摘要: 目的 观察组织蛋白酶S(cathepsin S)及核因子 κ B (nuclear factor- κ B, NF- κ B) p65在腹主动脉瘤(abdominal aortic aneurysm, AAA)中的表达,探讨其在AAA发生、发展及破裂中的作用及相关性。方法 收集我科2008年1月至2013年3月行手术治疗AAA术中留取的腹主动脉瘤壁组织78例,其中AAA(最大直径5~7 cm)组29例、AAA(最大直径>7~9 cm)组34例、破裂腹主动脉瘤(ruptured abdominal aortic aneurysm, RAAA)(最大直径>7~9 cm)组15例。采用免疫组化、Western blot检测cathepsin S及核因子 κ B p65的表达, Spearman等级相关分析检测两者的相关性。结果 免疫组化结果显示NF- κ B p65集中于细胞质和细胞核表达, cathepsin S主要集中在细胞质表达。NF- κ B p65及cathepsin S在AAA(>7~9 cm)组中的阳性率明显高于AAA(5~7 cm)组($P<0.05$),在RAAA(>7~9 cm)组中阳性率较AAA(>7~9 cm)组显著升高($P<0.05$)。差异性分析显示cathepsin S和NF- κ B p65在AAA组织中的表达与高血压、冠心病有关($P<0.05$), NF- κ B p65在AAA中的表达还与吸烟有关($P<0.05$)。Western blot法检测显示NF- κ B p65及cathepsin S在AAA组(>7~9 cm)中的表达显著高于AAA(5~7 cm)组($P<0.05$),在RAAA(>7~9 cm)组中表达显著高于AAA(>7~9 cm)组($P<0.05$)。相关性分析显示NF- κ B p65与cathepsin S的表达呈正相关($P<0.05$)。结论 cathepsin S与NF- κ B p65在3组AAA组织中均有表达,其表达量均随AAA直径的增加及破裂呈现递增趋势,提示两种蛋白在AAA发生、发展、破裂中发挥重要作用。

Abstract: Objective To investigate the expression of cathepsin S and NF- κ B p65 in abdominal aortic aneurysm (AAA), and determine their roles in the occurrence, progress and rupture of AAA. Methods Surgical specimens of abdominal aortic aneurysm wall tissue from 78 cases undergoing surgery in our department

from January 2008 to March 2013 were collected. There were 29 cases with the aneurysm size of 5 to 7 cm, 34 cases with the size of 7 to 9 cm, and 15 cases with ruptured abdominal aortic aneurysm in size of 7 to 9 cm (RAAA).

Immunohistochemical assay and Western blotting were applied to detect the expression of cathepsin S and NF- κ B in the tissue specimens. Spearman analysis was carried out for the correlation of the expression with aneurysm size.

Results Immunohistochemistry assay showed that NF- κ B p65 was expressed in the cytoplasm and nucleus, while cathepsin S was mainly concentrated in the cytoplasm. The positive rate of NF- κ B p65 and cathepsin S was significantly higher in 7-9 cm AAA group than in 5-7 cm AAA group ($P<0.05$). The positive rate of NF- κ B p65 and cathepsin S was significantly higher in 7-9 cm RAAA group than in 7-9 cm AAA group ($P<0.05$). The expression of both cathepsin S and NF- κ B p65 in abdominal aortic aneurysm tissues was correlated with hypertension and coronary artery diseases ($P<0.05$), and NF- κ B p65 expression was also associated with smoking ($P<0.05$). Western blotting showed that NF- κ B p65 and cathepsin S in 7-9 cm AAA group was higher than that in 5-7 cm AAA group ($P<0.05$). NF- κ B p65 and cathepsin S in RAAA (7-9 cm) group was higher than that in 7-9 cm AAA ($P<0.05$). Among 78 cases of abdominal aortic aneurysm, NF- κ B p65 and cathepsin S expression was positively correlated ($P<0.05$).
Conclusion Cathepsin S and NF- κ B p65 are expressed in AAA, and their expression is positively correlated with the aneurysm size and rupture, suggesting that they might play important roles in the occurrence, development and rupture of AAA.

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