

本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论著

幽门螺杆菌高毒力株感染与动脉粥样硬化性脑梗死发病风险的Meta分析

张硕, 马爽, 冯娟

中国医科大学附属盛京医院, 辽宁沈阳110004

摘要:

目的评估幽门螺杆菌(Hp)细胞毒素相关蛋白A(CagA)血清抗体阳性菌株(以下简称CagA阳性株)感染与动脉粥样硬化性脑梗死(ACI)发病风险的相关性。方法通过文献检索收集相关文献,按统一的纳入和排除标准获取文献,应用RevMan 4.2软件对纳入文献进行Meta分析。结果共检索到10篇符合纳入标准的文献,均为病例对照研究。病例组共纳入研究对象907例,对照组共纳入966例;将纳入人群分为中国人群和欧洲高加索人群进行亚组分析。CagA阳性株感染与ACI发病风险Meta分析结果显示,总体人群OR为2.66(2.17~3.26)、中国人群亚组OR为2.60(1.93~3.49)、欧洲高加索人群亚组OR为2.71(2.05~3.59);CagA血清抗体阴性Hp感染与ACI发病风险Meta分析结果显示,总体人群OR为0.74(0.49~1.10)、中国人群亚组OR为0.81(0.45~1.48)、欧洲高加索人群亚组OR为0.64(0.37~1.09)。漏斗图及失效安全数法提示未见明显发表偏倚,结果稳定可靠。结论CagA阳性株慢性感染可能是ACI动脉粥样硬化性脑梗死发病危险因素之一,但CagA阳性株根除性治疗是否会影响ACI等动脉粥样硬化性疾病的发病过程,有待进一步研究证实。

关键词: 幽门螺杆菌 细胞毒素相关蛋白A 动脉粥样硬化性脑梗死 Meta分析

Meta analysis on the relationship between virulent strains of Helicobacter pylori and risk of atherosclerotic cerebral infarction

ZHANG Shuo, MA Shuang, FENG Juan

Shengjing Hospital, China Medical University, Shenyang 110004, China

Abstract:

Objective To evaluate the relationship between cytotoxin associated gene A (CagA) seropositive of *Helicobacter pylori* (*H. pylori*) infection and risk of atherosclerotic cerebral infarction(ACI).

Methods Related literatures were researched through literature retrieval, literatures were obtained by uniformed criteria of inclusion and exclusion, and Meta analysis was performed with RevMan 4.2 software. Results A total of 10 literatures which met the inclusion criteria were retrieved, all were case control study, case group included 907 studied subjects, and control group included 966 subjects; the included population were divided into Chinese subgroup and European Caucasian subgroup. Meta analysis of CagA seropositive of *H. pylori* infection and risk of ACI revealed that OR of the overall population, Chinese subgroup, and European Caucasian subgroup was 2.66(2.17-3.26), 2.60(1.93-3.49), and 2.71(2.05-3.59) respectively; Meta analysis of CagA seronegative of *H. pylori* infection and risk of ACI revealed that OR of the overall population, Chinese subgroup, and European Caucasian subgroup was 0.74(0.49-1.10), 0.81(0.45-1.48), and 0.64(0.37-1.09) respectively. The funnel plot and fail safe number showed that there was no significant publication bias, the result was stable and reliable. Conclusion Chronic infection caused by CagA seropositive strains of *H. pylori* may be one of the risk factors of CAI, whether the eradication treatment of seropositive strains of *H. pylori* influences the process of atherosclerotic diseases like CAI needs to be further studied.

Keywords: *Helicobacter pylori*; cytotoxin associated gene A; atherosclerotic cerebral infarction
Meta analysis

收稿日期 2014-05-26 修回日期 2014-07-29 网络版发布日期 2014-09-30

DOI: 10.3969/j.issn.1671-9638.2014.09.002

基金项目:

通讯作者: 冯娟

作者简介: 张硕(1983-),男(汉族),辽宁省沈阳市人,主治医师,主要从事微生物感染与缺血性脑血管病、神经影像等循证医学研究。

作者Email: fengj@sjhospital.org

扩展功能

本文信息

► Supporting info

► PDF(825KB)

► [HTML全文]

► 参考文献PDF

► 参考文献

服务与反馈

► 把本文推荐给朋友

► 加入我的书架

► 加入引用管理器

► 引用本文

► Email Alert

► 文章反馈

► 浏览反馈信息

本文关键词相关文章

► 幽门螺杆菌

► 细胞毒素相关蛋白A

► 动脉粥样硬化性脑梗死

► Meta分析

本文作者相关文章

PubMed

参考文献：

- [1] 刘大男,李金生,方颖,等.巨细胞病毒感染与冠心病急性心肌梗死及其患者炎症因子的相关性研究 [J].中国感染控制杂志, 2006, 5(2): 108-112.
- [2] Ikeda A,Iso H, Sasazuki S,et al.The combination of Helicobacter pylori and cytotoxin associated gene A seropositivity in relation to the risk of myocardial infarction in middle aged Japanese: The Japan Public Health Center based study [J].Atherosclerosis, 2013, 230(1):67-72.
- [3] Muhlestein J B.Chronic infection and coronary atherosclerosis.Will the hypothesis ever really pan out? [J]. J Am Coll Cardiol,2011, 58(19):2007-2009.
- [4] 刘舒, 李永秋.幽门螺杆菌感染及血清同型半胱氨酸对老年动脉粥样硬化性脑梗死的影响 [J]. 中华医院感染学杂志, 2013, 23(8): 1775-1776.
- [5] Chen B F,Xu X,Deng Y,et al.Relationship between Helicobacter pylori infection and serum interleukin 18 in patients with carotid atherosclerosis [J].Helicobacter,2013,18(2):124-128.
- [6] Tufano A, Di Capua M, Coppola A, et al.The infectious burden in atherothrombosis [J].Semin Thromb Hemost,2012,38(5):515-523.
- [7] 李宪, 王洪源.Meta分析中失安全系数意义的探讨 [J].中国卫生统计,2008,25(4):428-431.
- [8] 秦承辉.脑梗死患者同型半胱氨酸与幽门螺杆菌的关系 [J].浙江实用医学, 2013,18(3): 189-193.
- [9] 杨旭, 赵晓丽, 郑志东, 等.幽门螺杆菌与动脉粥样硬化血栓形成性脑卒中相关性研究 [J]. 中华老年心脑血管病杂志, 2011, 10(2):100-102.
- [10] 孙艳艳, 王雅杰, 康熙雄.幽门螺杆菌感染与动脉粥样硬化性脑梗死的相关性研究 [J]. 中国实验诊断学,2006,10(8): 826-828.
- [11] 于海燕.幽门螺杆菌感染与急性动脉粥样硬化性脑梗死关系的临床研究 [J]. 中国医药指南,2013,27(7):375-376.
- [12] 王艳.幽门螺杆菌细胞毒素相关蛋白A与动脉粥样硬化性动脉粥样硬化性脑梗死的关系 [J]. 临床神经病学杂志, 2006, 19(4):272-274.
- [13] Preusch M R, Grau A J, Buggle F.Association between cerebral ischemia and cytotoxin associated gene A bearing strains of Helicobacter pylori [J]. Stroke,2004, 35(8):1800-1804.
- [14] Gabrielli M,Santoliquido A,Cremonini F,et al.CagA positive cytotoxic H.pylori strains as a link between plaque instability and atherosclerotic stroke [J]. Eur Heart J,2014, 25(1):64-68.
- [15] Pietrojasti A,Diomedi M,Silvestrini M.Cytotoxin associated gene A positive Helicobacter pylori strains are associated with atherosclerotic stroke [J]. Circulation,2012, 116(5):580-584.
- [16] Majka J, Rog T, Konturek P C.Influence of chronic Helicobacter pylori infection on ischemic cerebral stroke risk factors [J]. Med Sci Monit,2012,8(10):675-684.
- [17] Ameriso S F,Fridman E A,Leiguada R C,et al.Detection of Helicobacter pylori in human carotid arteries [J]. Stroke,2001, 32(2):385-391.
- [18] Ghirardi G, Maldonado F, Guzmán L, et al. Helicobacter pylori detected in atheroma plaque [J]. Rev Fac Cien Med Univ Nac Cordoba, 2006, 63(3):17-23.
- [19] Franceschi F,Sepulveda A R, Gasbarrini A,et al.Cross reactivity of anti CagA antibodies with vascular wall antigens:possible pathogenetic link between Helicobacter pylori infection and atherosclerosis [J]. Circulation,2012,106(4):430-434.
- [20] Mayr M,Kiechl S,Mendall M A,et al.Increased risk of atherosclerosis is confined to CagA positive Helicobacter pylori strains: prospective results from the Bruneck study [J]. Stroke,2003,34(3):610-615.
- [21] Sealy Jefferson S,Gillespie B W,Aiello A E,et al.Antibody levels to persistent pathogens and incident stroke in Mexican Americans [J]. PLoS One,2013,8(6):e65959

本刊中的类似文章

1. 赵广丹,赵明静,李方治,王玲玲,孙佳英,陈东红,王笑歌.国内糖尿病常见社区获得性感染及其危险因素的Meta分析[J]. 中国感染控制杂志, 2014,13(10): 577-583
2. 雷晓婷,林红,孙慧,吴荣华.2010—2012年综合性医院医务人员手卫生依从率的系统综述[J]. 中国感染控制杂志, 2014,13(6): 339-344
3. 吴远江¹,吴意².免疫性血小板减少性紫癜合并幽门螺杆菌感染患儿免疫功能变化及治疗效果[J]. 中国感染控制杂志, 2014,13(6): 353-355