



广西医科大学第一附属医院
THE FIRST AFFILIATED HOSPITAL OF
GUANGXI MEDICAL UNIVERSITY

**FIRST AFFILIATED HOSPITAL of GUANGXI MEDICAL
UNIVERSITY
ETHICAL REVIEW COMMITTEE
Approval Notice**

Approval Number: 2018(KY-E-053)

Title: Biomarkers and potential pathogenesis of colorectal cancer related ischemic stroke.

Research Contents: To investigate the specific biomarkers and potential pathogenesis of colorectal cancer related ischemic stroke (CRCIS). A retrospective study was conducted on CRCIS patients (active colorectal cancer with acute ischemic stroke patients without conventional stroke risk factors) who admitted to the hospitals between January 2007 and December 2017. CRCIS patients' clinical data, laboratory and imaging findings were compared with age- and sex- matched patients with colorectal cancer (CRC) without ischemic stroke. Our results revealed that the levels of plasma D-dimer, carcinoembryonic antigen (CEA), cancer antigen (CA) 125 and neutrophil count (NC) were independent risk factors for CRCIS. In addition, ROC curve revealed that the area under curve (AUC) for the product was 0.889 ± 0.022 , the optimal cut-off value for the product of D-dimer, CEA and NC was 252.06 which was called CRCIS index in present study, with a sensitivity of 86.0% and a specificity of 79.8%. Our findings suggested that hypercoagulability that induced by elevated CEA and increased NC may be an important pathogenesis of CRCIS, and CRCIS index could serve as a novel biomarker of CRCIS.

Applicant: Zhijian Liang

Application Department: Department of Neurology, the First Affiliated Hospital of Guangxi Medical University.

Acknowledgement: This study was supported by supported by grants from the National Natural Science Foundation of China, No. 81260186.

Date of Application: August 21, 2018

Date of Approval: August 22, 2018

Conclusion: This project fully considered and protected the rights and interests of the study objects. It meets the criteria of Ethical Review Committee. The Medical Ethics Committee of First Affiliated Hospital of Guangxi Medical University has approved the protocol.

Signature: _____

Songqing He

(Vice) Director of Ethical Review Committee

First Affiliated Hospital of Guangxi Medical University

Date: _____

August 22, 2018

地址：广西南宁市双拥路6号 邮编：530021 电话：0771-5350895

NO.6 SHUANGYONG ROAD NANNING GUANGXI P.C.: 530021 TEL: +86-771-5350895



广西医科大学第一附属医院
THE FIRST AFFILIATED HOSPITAL OF
GUANGXI MEDICAL UNIVERSITY

广西医科大学第一附属医院

伦理审批意见

NO.伦审 2018(KY-E-053)号

题 目：结直肠癌相关脑梗死的生物标志物及潜在发病机制

研究内容：目前癌症相关脑梗死备受关注，但其生物标志物和发病机制尚不清楚。既往研究表明，不同类型癌症的临床特点，包括原发部位，病理类型和生长阶段可能会以不同方式影响脑梗死的发生发展。更重要的是，结直肠癌也可增加脑梗死的风险。本研究通过回顾性分析结直肠癌相关脑梗死患者的临床资料，并与年龄、性别相匹配的单纯结直肠癌患者进行对比，旨在探讨其特异生物标志物及潜在发病机制。本研究结果显示由癌胚抗原升高和中性粒细胞增加引起的高凝状态可能是结直肠癌相关高凝状态的主要发病机制，而结直肠癌相关脑梗死指数可作为一种新的生物标志物。

申 请 人：梁志坚

所在单位：广西医科大学第一附属医院

申请日期：2018年8月21日

审批日期：2018年8月22日

结 论：该项课题经广西医科大学第一附属医院医学伦理委员会审查，研究方案符合医学伦理学的要求。

广西医科大学第一附属医院医学伦理委员会

(副)主任委员（签名）：

日 期：

2018.8.22