论文发表伦理审查申请表

文章题目	Elevated RBP4 levels were associated with atherosclerosis in diabetes rats via JAK signaling pathway		
拟发表刊物	World Journal of Diabetes		
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Objective The aim of the present study was to summarize the potential role of retinol binding protein 4 (RBP4) in the pathogenesis of diabetic atherosclerosis, particularly related to RBP4-Janus kinase 2 /signal transducer and activator of transcription3 (JAK2/STAT3) signal pathway. Methods Male wistar rats were randomly divided into 3 groups, including the control group (NC), the diabetic rats (DM) and the diabetic atherosclerosis rats (DA). Fasting insulin (FINS), fasting plasma glucose (FPG), total cholesterol (TC), high-density lipoprotein cholesterol (HDL-c), triglycerides (TG), low-density lipoprotein cholesterol (LDL-c), hemoglobin A1c (HbA1c) were measured. Simultaneously the levels of RBP4 in serum and adipose, the expressions of JAK2, p-JAK2 (phosphorylated janus kinase 2), STAT3, p-STAT3 (phosphorylated signal transducer and activator of transcription-3), Cyclin D1, B-cell lymphoma-2 (Bcl-2) in aortic tissues were detected. Homeostasis model assessment of insulin resistance (HOMA-IR) and atherogenic indexes (AI) were calculated. Results Compared with group NC and group DM, the levels of the expressions of LDL-c, TG, TC, FINS, HOMA-IR, RBP4, AI increased, while the level of HDL-c decreased in group DA ($P < 0.05$); Pearson analysis showed that serum RBP4 was positively correlated with TG, TC, LDL-c, FINS, HbA1C, P-JAK2, P-STAT3, Bcl-2, CyclinD1, AI, HOMA-IR and negatively correlated with HDL-c. In addition, multivariable logistic regression analysis showed that serum RBP4, P-JAK2, P-STAT3 and LDL-c were predictors for the presence of diabetic atherosclerosis. Conclusion RBP4 could involve in the improvement of diabetic atherosclerosis by regulating JAK2/STAT3 signaling pathway

Keywords Diabetes mellitus; RBP4; Atherosclerosis; JAK2

作者声明：

本人即将发表刊出的文章，就研究方法而言符合世界医学会《赫尔辛基宣言》、国际医学科学组织理事会《涉及人的生物医学研究国际伦理准则》、ICH GCP、国家卫生计生委《涉及人的生物医学研究伦理审查办法》等相关法规和准则，保证受试者的尊严、安全和权益；就研究数据而言，本人保证所用数据的真实性，统计方法的合理性以及所得研究结果的科学性。

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2020 年 10 月 28 日

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2020 年 10 月 28 日