

- 分析[J]. 医学影像学杂志, 2019, 29(5): 775–778, 793.
- [19] 栾玉爽, 李媛媛, 朱爱艳, 等. 不同类型非哺乳期乳腺炎的超声特征与鉴别诊断[J]. 中国超声医学杂志, 2021, 37(1): 25–27.
- [20] Azizi A, Prasath V, Canner J, et al. Idiopathic granulomatous mastitis: management and predictors of recurrence in 474 patients[J].

Breast J, 2020, 26(7): 1358–1362.

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论著

血清半乳糖凝集素-3 与急性心肌梗死患者新发心房颤动的关联性研究

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[摘要] 目的 探讨血清半乳糖凝集素-3(Gal-3)与急性心肌梗死(AMI)患者新发心房颤动(AF)的关联性。**方法** 选择 2018 年 10 月至 2019 年 12 月广西壮族自治区人民医院收治的 AMI 合并新发 AF 患者 30 例(新发 AF 组), 另选同期 AMI 未合并新发 AF 患者 30 例(非 AF 组)。通过医院病历系统收集两组的临床资料, 采用多因素 logistic 回归分析影响 AMI 患者新发 AF 的因素, 采用 Pearson 相关分析探讨 Gal-3 与 B 型利钠肽前体(NT-proBNP)、左房前后径的相关性。**结果** 新发 AF 组左心房前后径、NT-proBNP 和血清 Gal-3 水平高于非 AF 组, 差异有统计学意义($P < 0.05$)。多因素 logistic 回归分析结果显示, 较高水平的血清 Gal-3 是促进 AMI 患者新发 AF 的危险因素($OR = 2.719, P = 0.006$)。AMI 患者的血清 Gal-3 水平与 NT-proBNP 水平、左心房前后径呈显著正相关($P < 0.05$)。**结论** 血清 Gal-3 水平与 AMI 患者新发 AF 密切相关, 具有作为预测 AMI 患者新发 AF 标志物的潜力。

[关键词] 半乳糖凝集素-3; 急性心肌梗死; 心房颤动

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A study on the association between serum galectin-3 and new-onset atrial fibrillation in patients with acute myocardial infarction LI Qing-kuan, QIN Shao-ming, LU Zhi-hong, et al. Department of Cardiology, the People's Hospital of Guangxi Zhuang Autonomous Region, Nanning 530021, China

[Abstract] **Objective** To investigate the association between serum galectin-3 (Gal-3) and new-onset atrial fibrillation (AF) in patients with acute myocardial infarction (AMI). **Methods** From October 2018 to December 2019, 30 patients with AMI complicated with new-onset AF who were admitted to the People's Hospital of Guangxi Zhuang Autonomous Region were selected as the new-onset AF group, and 30 patients with AMI but without new-onset AF during the same period were selected as the non-AF group. The clinical data of the two groups were collected through the hospital medical record system. Multivariate logistic regression analysis was used to analyze the factors influencing new-onset AF in the AMI patients, and Pearson correlation analysis was used to investigate the correlation between Gal-3 and N-terminal prohormone of brain natriuretic peptide (NT-proBNP) and the anteroposterior diameter of the left atrium. **Results** The anteroposterior diameter of the left atrium, the levels of NT-proBNP and serum Gal-3 in the new-onset AF group

综上所述,在 AMI 患者中,血清 Gal-3 与 NT-proBNP、左心房前后径呈正相关,具有作为预测 AMI 患者新发 AF 标志物的潜力。但本研究仍存在研究样本量偏小、随访时间短等缺点,也尚未能解释 Gal-3 是否参与了 AMI 新发 AF 的发生、发展过程,这有待更大规模的前瞻性临床研究进行验证。

参考文献

- [1] Poçi D, Hartford M, Karlsson T, et al. Effect of new versus known versus no atrial fibrillation on 30-day and 10-year mortality in patients with acute coronary syndrome[J]. Am J Cardiol, 2012, 110(2): 217–221.
- [2] Jabbé P, Jouven X, Adnet F, et al. Atrial fibrillation and death after myocardial infarction: a community study[J]. Circulation, 2011, 123(19): 2094–2100.
- [3] Martínez-Martínez E, Calvier L, Fernández-Celis A, et al. Galectin-3 blockade inhibits cardiac inflammation and fibrosis in experimental hyperaldosteronism and hypertension[J]. Hypertension, 2015, 66(4): 767–775.
- [4] Thygesen K, Alpert JS, Jaffe AS, et al. Fourth universal definition of myocardial infarction (2018)[J]. Glob Heart, 2018, 13(4): 305–338.
- [5] Fuster V, Rydén LE, Cannom DS, et al. ACC/AHA/ESC 2006 guidelines for the management of patients with atrial fibrillation: full text: a report of the American College of Cardiology/American Heart Association Task Force on practice guidelines and the European Society of Cardiology Committee for Practice Guidelines (Writing Committee to Revise the 2001 guidelines for the management of patients with atrial fibrillation) developed in collaboration with the European Heart Rhythm Association and the Heart Rhythm Society[J]. Europace, 2006, 8(9): 651–745.
- [6] Li J, Li X, Wang Q, et al. ST-segment elevation myocardial infarction in China from 2001 to 2011 (the China PEACE-Retrospective Acute Myocardial Infarction Study): a retrospective analysis of hospital data [J]. Lancet, 2015, 385(9966): 441–451.
- [7] 金彦彦,白 融,叶 明,等.急性心肌梗死后新发心房颤动的危险因素及预后分析[J].中华内科杂志,2019,58(2):133–138.
- [8] Huang SS, Chan WL, Leu HB, et al. Association between CHADS₂ score and the preventive effect of statin therapy on new-onset atrial fibrillation in patients with acute myocardial infarction[J]. PLoS One, 2013, 8(8): e74709.
- [9] 李庆宽,覃绍明.半乳糖凝集素-3 与心房颤动的研究进展[J].中国临床新医学,2019,12(1):107–110.
- [10] Ho JE, Yin X, Levy D, et al. Galectin 3 and incident atrial fibrillation in the community[J]. Am Heart J, 2014, 167(5): 729–734.
- [11] Yalcin MU, Gurses KM, Kocigit D, et al. The association of serum galectin-3 levels with atrial electrical and structural remodeling[J]. J Cardiovasc Electrophysiol, 2015, 26(6): 635–640.
- [12] Nattel S. New ideas about atrial fibrillation 50 years on[J]. Nature, 2002, 415(6868): 219–226.
- [13] Witt C, Kapa S. The inflammatory hypothesis of atrial fibrillation: diagnostic marker, therapeutic target, or innocent bystander? [J]. J Cardiovasc Electrophysiol, 2015, 26(6): 641–643.
- [14] Takemoto Y, Ramirez RJ, Yokokawa M, et al. Galectin-3 regulates atrial fibrillation remodeling and predicts catheter ablation outcomes [J]. JACC Basic Transl Sci, 2016, 1(3): 143–154.
- [15] Asanin M, Stankovic S, Mrdovic I, et al. B-type natriuretic peptide predicts new-onset atrial fibrillation in patients with ST-segment elevation myocardial infarction treated by primary percutaneous coronary intervention[J]. Peptides, 2012, 35(1): 74–77.
- [16] De Lemos JA, Morrow DA, Bentley JH, et al. The prognostic value of B-type natriuretic peptide in patients with acute coronary syndromes [J]. N Engl J Med, 2001, 345(14): 1014–1021.
- [17] Verma A, Wazni OM, Marrouche NF, et al. Pre-existent left atrial scarring in patients undergoing pulmonary vein antrum isolation: an independent predictor of procedural failure[J]. J Am Coll Cardiol, 2005, 45(2): 285–292.

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