2020/8/4 文章摘要

术前NLR、PLR与三阴性乳腺癌患者预后的相关性分析

《**现代肿瘤医学》[ISSN:1672-4992/CN:61-1415/R] 期数:** 2019年12期 **页码:** 2087-2091 **栏目:** 论著(胸部肿瘤) **出版日期:** 2019-05-08

Title: Correlation between preoperative NLR,PLR and prognosis of three negative breast cancer

patients

作者: 崔浩; 吴瑶瑶; 章龙珍

徐州医科大学附属医院放疗科, 江苏 徐州 221000

Author(s): Cui Hao; Wu Yaoyao; Zhang Longzhen

Department of Radiotherapy, The Affiliated Hospital of Xuzhou Medical University, Jiangsu Xuzhou 221000,

China.

关键词: 三阴性乳腺癌; NLR; PLR; 预后

Keywords: TNBC; NLR; PLR; prognosis

分类号: R737.9

DOI: 10.3969/j.issn.1672-4992.2019.12.013

文献标识码: A

摘要: 目的:探讨术前外周血中性粒细胞与淋巴细胞计数比值(NLR)联合血小板与淋巴细胞计数比值(PLR)对三阴性乳腺癌

(TNBC)患者预后的评估价值。方法:收集155例TNBC患者,根据NLR水平分为低NLR组和高NLR组,根据PLR水平分为低PLR组和高PLR组,分别分析NLR和PLR与TNBC患者临床特征和预后的关系,采用x2检验进行影响患者预后的单因素分析,Kaplan-Meier法绘制生存曲线,Cox回归模型分析影响患者预后的独立危险因素。结果:术前外周血NLR与TNBC患者的淋巴结转移、病理分期及复发转移有关(P < 0.05),与年龄、肿瘤大小、组织学分级及月经均无关(P > 0.05)。PLR与TNBC患者的临床特征无关(P > 0.05)。单因素分析结果显示:淋巴结转移、病理分期、NLR、复发转移与患者的3年无病进展期相关。Cox回归模型多因素分析结果显示,病理分期、淋巴结转移、NLR是影响TNBC患者预后的独立风险因素。结论:NLR与TNBC患者的病理分期、淋巴结转移及复发转移密切相关,高NLR可作为判断患

者预后的独立危险因素; PLR与TNBC患者的临床特征及预后无明显相关性。

Abstract: Objective: To investigate the prognostic value of peripheral blood neutrophils/lymphocyte ratio (NLR) and

platelet/lymphocyte ratio (PLR) in triple-negative breast cancer(TNBC) patients. Methods: Clinical data of 155 patients with TNBC were collected. The differences between groups were compared using chi-square test. The Kaplan-Meier method was used to drawing the survival curve. The Cox regression model was applied to analyze the independent prognostic risk factors, which may affect the survival rate. Results: The high NLR value was related with the pathological stage, lymph node metastasis, recurrence and metastasis (P < 0.05). However, NLR was not correlated with age, tumor size, histological grade or menstruation (P > 0.05). PLR was not correlated with clinical characteristics (P > 0.05). Univariate analysis showed that lymph node metastasis, pathological stage, recurrence and metastasis and NLR value were related to the 3 years disease-free progression in TNBC patients. Cox multivariate analysis showed that lymph node metastasis, pathological stage and NLR value were independent predictors of prognosis in TNBC patients. Conclusion: In TNBC patients, the NLR level is related to lymph node metastasis and pathological stage significantly. High level of NLR value can be used as independent predictors of prognosis in TNBC patients. However, there is no significant correlation among PLR, clinical characteristics and prognosis.

参考文献/REFERENCES

- [1] Metzger-Filho O.Dissecting the heterogeneity of triple-negative breast cancer [J] .J Clin Oncol, 2012, 30(15):1879-1887.
- [2] Lee A,MBA Djamgoz. Triple negative breast cancer: Emerging therapeutic modalities and novel combination therapies [J] . Cancer Treat Rev, 2018, 62:110-122.
- [3] Hanahan D,RA Weinberg.Hallmarks of cancer:The next generation [J] .Cell,2011,144(5):646-674.
- [4] Rajala MW,PE Scherer.Minireview:The adipocyte-at the crossroads of energy

2020/8/4 文章摘

homeostasis, inflammation, and atherosclerosis [J] . Endocrinology, 2003, 144(9): 3765-3773.

- [5] Caronni N,B Savino,R Bonecchi.Myeloid cells in cancer-related inflammation [J] .Immunobiology,2015,220(2):249-253.
- [6] Pauken KE,EJ Wherry. Overcoming T cell exhaustion in infection and cancer [J] . Trends Immunol, 2015, 36(4):265-2676.
- [7] Hoffmann TK.Spontaneous apoptosis of circulating T lymphocytes in patients with head and neck cancer and its clinical importance [J] .Clinical Cancer Research, 2002, 8(8):2553-2562.
- [8] Vayrynen JP.Detailed analysis of inflammatory cell infiltration in colorectal cancer [J] .Br J Cancer, 2013, 109(7):1839-1847.
- [9] Bhat T.Neutrophil to lymphocyte ratio and cardiovascular diseases:a review [J] .Expert Rev Cardiovasc Ther, 2013, 11(1):55-59.
- [10] Kim YJ.Pretreatment neutrophil-to-lymphocyte ratio and its dynamic change during neoadjuvant chemotherapy as poor prognostic factors in advanced ovarian cancer [J] .Obstet Gynecol Sci,2018,61(2):227-234.
- [11] Palin RP.Association of pretreatment neutrophil-lymphocyte ratio and outcome in emergency colorectal cancer care [J] .Ann R Coll Surg Engl, 2018, 100(4):308-315.
- [12] Rossi S.Are markers of systemic inflammation good prognostic indicators in colorectal cancer [J] ? Clin Colorectal Cancer, 2017, 16(4): 264-274.
- [13] Schlesinger M.Role of platelets and platelet receptors in cancer metastasis [J] .J Hematol Oncol, 2018, 11(1):125.
- [14] Song W.Preoperative platelet lymphocyte ratio as independent predictors of prognosis in pancreatic cancer: A systematic review and meta-analysis [J] .PLoS One,2017,12(6):e0178762.
- [15] Zhang X.Prognostic value of platelet-to-lymphocyte ratio in oncologic outcomes of esophageal cancer: A systematic review and meta-analysis [J] .Int J Biol Markers, 2018:1724600818766889.
- [16] Vernieri C.The neutrophil-to-lymphocyte and platelet-to-lymphocyte ratios predict efficacy of platinum-based chemotherapy in patients with metastatic triple negative breast cancer [J] .Sci Rep,2018,8(1):8703.
- [17] Xu J.Association of neutrophil/lymphocyte ratio and platelet/lymphocyte ratio with ER and PR in breast cancer patients and their changes after neoadjuvant chemotherapy [J] .Clin Transl Oncol,2017,19(8):989-996.
- [18] Asano Y.Predictive value of neutrophil/lymphocyte ratio for efficacy of preoperative chemotherapy in triple-negative breast cancer [J] .Ann Surg Oncol, 2016, 23(4):1104-1110.

备注/Memo: 江苏省普通高校研究生科研、实践创新计划项目 (编号: KYCX18_2188)

更新日期/Last Update: 1900-01-01