A High or a Reasonably-Reactively Elevated Platelet-to-Lymphocyte Ratio,

Which Plays the Role?

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Supplementary Table 1 Mean value of concerned parameters in 26,145 adult HC(age 21 or older)

	n	Age	WBC	PLT	NE#	LY#	PLR
Male	13790	45.2±13.9	6.53±1.68	213±50	3.77±1.27	2.12±0.70	107±39
Female	12355	43.2±14.2	5.99±1.54	227±55	3.50±1.24	1.97±0.54	122±42
Total	26145	44.3±14.1	6.28±1.64	220±53	3.64±1.26	2.05±0.63	114±41

The data are expressed as mean ± SD. WBC, white blood cell count; PLT, platelet count; LY#, lymphocyte count; NE#, neutrophil count; PLR, platelet-to-lymphocyte ratio.

Supplementary Table 2 Review of Previous Literature

Title	First author	Year	Cancer yes or no?	Healthy control	Patient number	PLR cutoff	PLR mean/median
<i>Prognostic value of preoperative platelet-lymphocyte and neutrophil-lymphocyte ratio in patients undergoing surgery for esophageal squamous cell cancer</i>	Xie X	2014	yes	NA	317	103	116
<i>Platelet-to-lymphocyte ratio acts as a prognostic factor for patients with advanced hepatocellular carcinoma</i>	Li X	2015	yes	NA	243	111	112
<i>Postoperative neutrophil-to-lymphocyte ratio plus platelet-to-lymphocyte ratio predicts the outcomes of hepatocellular carcinoma</i>	Li C	2015	yes	NA	236	116	116; 83(127;104)*
<i>Negative Impact of Preoperative Platelet-Lymphocyte Ratio on Outcome After Hepatic Resection for Intrahepatic Cholangiocarcinoma</i>	Chen Q	2015	yes	NA	322	123	140
<i>Predictive value of pre-transplant platelet to lymphocyte ratio for hepatocellular carcinoma recurrence after liver transplantation</i>	Xia W	2015	yes	NA	343	125	NA
<i>Prechemotherapy neutrophil : lymphocyte ratio is superior to the platelet : lymphocyte ratio as a prognostic indicator for locally advanced esophageal squamous cell cancer treated with neoadjuvant chemotherapy</i>	Ji WH	2015	yes	NA	41	130	143
<i>Prognostic value of pre-operative inflammatory response biomarkers in gastric cancer patients and the construction of a predictive model</i>	Deng Q	2015	yes	NA	389	132	NA
<i>Value of the platelet to lymphocyte ratio in the diagnosis of ovarian neoplasms in adolescents</i>	Ozaksit G	2015	yes	NA	196	140	130; 176; 157*

<i>Neutrophil and platelet-to-lymphocyte ratio as new predictors of dropout and recurrence after liver transplantation for hepatocellular cancer</i>	Lai Q	2014	yes	NA	211	150	NA
<i>The platelet-to-lymphocyte ratio predicts poor survival in patients with huge hepatocellular carcinoma that received transarterial chemoembolization</i>	Xue TC	2015	yes	NA	291	150	NA
<i>Diagnostic Role of Platelet Lymphocyte Ratio(PLR) in Pancreatic Head Masses.</i>	Miglani RK	2013	yes	NA	45	150	125; 191*
<i>The platelet-lymphocyte ratio improves the predictive value of serum CA19-9 levels in determining patient selection for staging laparoscopy in suspected periampullary cancer.</i>	Smith RA	2008	yes	NA	263	150	147; 202; 176*
<i>Clinical Significance of Preoperative Neutrophil Lymphocyte Ratio versus Platelet Lymphocyte Ratio in Patients with Small Cell Carcinoma of the Esophagus.</i>	Feng J	2013	yes	NA	43	150	NA
<i>Pretreatment platelet-to-lymphocyte ratio (PLR) as a predictor of response to first-line platinum-based chemotherapy and prognosis for patients with non-small cell lung cancer.</i>	Liu H	2013	yes	NA	210	153	NA
<i>Prognosis of resected ampullary adenocarcinoma by preoperative serum CA19-9 levels and platelet-lymphocyte ratio.</i>	Smith RA	2008	yes	NA	52	160	NA
<i>Prognostic significance of neutrophil lymphocyte ratio and platelet lymphocyte ratio in advanced gastric cancer patients treated with FOLFOX chemotherapy.</i>	Lee S	2013	yes	NA	174	160	NA
<i>Utility of pre-treatment neutrophil-lymphocyte ratio and platelet-lymphocyte ratio as prognostic factors in breast cancer</i>	Koh CH	2015	yes	NA	1435	185	144

<i>Neutrophil-lymphocyte and platelet-lymphocyte ratio in patients after resection for hepato-pancreatico-biliary malignancies</i>	Spolverato G	2015	yes	NA	452	190	NA
<i>Evaluation of the platelet-to-lymphocyte ratio as a prognostic indicator in a European cohort of patients with prostate cancer treated with radiotherapy</i>	Langsenlehner T	2015	yes	NA	374	190	NA
<i>Prognostic impact of preoperative platelets to lymphocytes ratio (PLR) on survival for oesophageal and junctional carcinoma treated with neoadjuvant chemotherapy: A retrospective monocentric study on 153 patients</i>	Messenger M	2015	yes	NA	153	192	NA
<i>Are Neutrophil/Lymphocyte and Platelet/Lymphocyte Rates in Patients with Non-Small Cell Lung Cancer Associated with Treatment Response and Prognosis?</i>	Unal D	2013	yes	NA	94	194	194
<i>Prognostic role of pretreatment platelet/lymphocyte ratio in patients with non-small cell lung cancer</i>	Kos M	2015	yes	NA	145	198	NA
<i>Platelet to lymphocyte ratio as a prognostic factor for epithelial ovarian cancer.</i>	Raunkaewmanee S	2012	yes	NA	166	200	181
<i>Platelet to lymphocyte ratio as a new prognostic for patients with metastatic renal cell cancer</i>	Gunduz S	2015	yes	NA	100	210	NA
<i>Prognostic Significance of Retroperitoneal Lymphadenectomy, Preoperative Neutrophil Lymphocyte Ratio and Platelet Lymphocyte Ratio in Primary Fallopian Tube Carcinoma: A Multicenter Study</i>	Gungorduk K	2014	yes	NA	91	233	NA
<i>Platelet-lymphocyte ratio is a predictor of venous thromboembolism in cancer patients</i>	Yang W	2014	yes	NA	173	260	NA

<i>Preoperative Neutrophil-to-Lymphocyte Ratio is a Better Prognostic Serum Biomarker than Platelet-to-Lymphocyte Ratio in Patients Undergoing Resection for Nonmetastatic Colorectal Cancer</i>	Choi WJ	2015	yes	NA	549	295	NA
<i>The comparison of thrombocytosis and platelet-lymphocyte ratio as potential prognostic markers in colorectal cancer</i>	Baranyai Z	2014	yes	NA	454	300	NA
<i>Haemoglobin, neutrophil to lymphocyte ratio and platelet count improve prognosis prediction of the TNM staging system in nasopharyngeal carcinoma: development and validation in 3,237 patients from a single institution.</i>	Chang H	2013	yes	NA	3237	300	NA
<i>Preoperative platelet lymphocyte ratio as an independent prognostic marker in ovarian cancer.</i>	Asher V	2011	yes	NA	235	300	267
<i>Elevated preoperative platelet to lymphocyte ratio associated with decreased survival of women with ovarian clear cell carcinoma</i>	Supoken A	2014	yes	NA	36	300	NA
<i>Elevated Preoperative Platelet to Lymphocyte Ratio Associated with Decreased Survival of Women with Ovarian Clear Cell Carcinoma</i>	Supoken A	2015	yes	NA	39	300	NA
<i>Could the platelet-to-lymphocyte ratio be a novel marker for predicting invasiveness of cervical pathologies?</i>	Kose M	2015	yes	NA	105	111000	125; 150*
<i>The Platelet-to-Lymphocyte Ratio Versus Neutrophil-to-Lymphocyte Ratio: Which is Better as a Prognostic Factor in Gastric Cancer?</i>	Kim EY	2015	yes	NA	1986	126; 200	116
<i>Clinical significance of preoperative neutrophil-lymphocyte versus platelet-lymphocyte ratio in patients with operable colorectal cancer</i>	Kwon H	2012	yes	NA	200	150; 300	NA

<i>Preoperative platelet-lymphocyte ratio is an independent significant prognostic marker in resected pancreatic ductal adenocarcinoma.</i>	Smith RA	2009	yes	NA	110	150; 300	159
<i>High levels of platelet/lymphocyte ratio are associated with metastatic gastric cancer</i>	Cetinkunar S	2015	yes	NA	228	182; 209	160; 232*
<i>Prognostic value of the platelet to lymphocyte ratio change in liver cancer</i>	Peng W	2015	yes	NA	219	2.875#	68/100; 95;67*
<i>Enhancing the accuracy of platelet to lymphocyte ratio after adjustment for large platelet count: a pilot study in breast cancer patients.</i>	Seretis C	2012	yes	NA	79	NA	138; 145; 160
<i>May the platelet to lymphocyte ratio be a prognostic factor for epithelial ovarian cancer?</i>	Kokcu A	2014	yes	NA	100	NA	164; 245
<i>Benign prostatic hyperplasia and prostate cancer differentiation via platelet to lymphocyte ratio</i>	Kaynar M	2015	yes	NA	201	NA	132/125/124; 120/126/191; 123/123/179*
<i>Preoperative hematologic markers as independent predictors of prognosis in resected pancreatic ductal adenocarcinoma: neutrophil-lymphocyte versus platelet-lymphocyte ratio.</i>	Bhatti I	2010	yes	NA	84	NA	110
<i>Two new inflammatory markers associated with Disease Activity Score-28 in patients with rheumatoid arthritis: neutrophil-lymphocyte ratio and platelet-lymphocyte ratio</i>	Uslu AU	2015	no	51	104	NA	115; 137(119;147)*
<i>Endothelial Dysfunction in Patients with Pulmonary Thromboembolism: Neutrophil to Lymphocyte Ratio and Platelet to Lymphocyte Ratio</i>	Kurtipek E	2015	no	56	71	NA	112; 141*

<i>Platelet-lymphocyte ratio is an independent predictor for cardiovascular disease in obstructive sleep apnea syndrome</i>	Koseoglu HI	2015	no	57	367	109	87; 95; 97; 127*
<i>The significance of neutrophil to lymphocyte ratio and platelet to lymphocyte ratio in vestibular neuritis</i>	Chung JH	2015	no	70	70	NA	103; 129*
<i>The association between platelet/lymphocyte ratio and coronary artery disease severity</i>	Yuksel M	2014	no	80	308	111	106; 114; 142*
<i>Relationship between platelet-to-lymphocyte ratio and coronary slow flow.</i>	Oylumlu M	2014	no	102	95	NA	135; 113*
<i>Increased Platelet to Lymphocyte Ratio is Related to Slow Coronary Flow</i>	Akboga MK	2015	no	293	221	NA	104; 130*
<i>Association of Platelet to Lymphocyte Ratio With Inflammation and Severity of Coronary Atherosclerosis in Patients With Stable Coronary Artery Disease</i>	Akboga MK	2015	no	474	1172	110	98; 120; 147*
<i>Neutrophil-to-lymphocyte ratio and platelet-to-lymphocyte ratio: novel markers for diagnosis and prognosis in patients with idiopathic sudden sensorineural hearing loss</i>	Seo YJ	2014	no	537	348	NA	147; 169(148;200)*
<i>Platelet to Lymphocyte Ratio Can be a Predictor of Infarct-Related Artery Patency in Patients With ST-Segment Elevation Myocardial Infarction</i>	Yayla C	2015	no	NA	452	80	138; 95*
<i>Association Between Platelet to Lymphocyte Ratio and Saphenous Vein Graft Disease</i>	Yayla C	2015	no	NA	220	106	77; 137*

<i>Platelet-to-Lymphocyte Ratio Predicts Contrast-Induced Nephropathy in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome</i>	Kocas C	2015	no	NA	488	112	120; 153*
<i>Usefulness of the platelet-to-lymphocyte ratio in predicting bare-metal stent restenosis</i>	Yilmaz S	2015	no	NA	675	122	94; 115; 147*
<i>Platelet-to-lymphocyte ratio is a marker of poor prognosis in patients with diabetes mellitus and ST-elevation myocardial infarction</i>	Hudzik B	2015	no	NA	523	124	NA
<i>Usefulness of the platelet-to-lymphocyte ratio in predicting angiographic reflow after primary percutaneous coronary intervention in patients with acute ST-segment elevation myocardial infarction</i>	Kurtul A	2014	no	NA	520	126	115; 219*
<i>Could elevated platelet-lymphocyte ratio predict left ventricular systolic dysfunction in patients with non-ST elevated acute coronary syndrome?</i>	Bekler A	2014	no	NA	220	135.6	NA
<i>Platelet to lymphocyte ratio as a prognostic marker in primary percutaneous coronary intervention</i>	Ayca B	2014	no	NA	440	137	NA
<i>Platelet-to-lymphocyte ratio is a predictor of in-hospital mortality patients with acute coronary syndrome</i>	Oylumlu M	2015	no	NA	587	142	84; 127; 214*
<i>The relation between platelet-to-lymphocyte ratio and Pulmonary Embolism Severity Index in acute pulmonary embolism</i>	Kundi H	2015	no	NA	646	149	143(125;187) *
<i>Preoperative Platelet-Lymphocyte Ratio Augments CA 19-9 as a Predictor of Malignancy in Chronic Calcific Pancreatitis</i>	Rammohan A	2015	no	NA	83	150	NA

<i>Novel predictors of infarct-related artery patency for ST-segment elevation myocardial infarction: Platelet-to-lymphocyte ratio, uric acid, and neutrophil-to-lymphocyte ratio</i>	Acet H	201 4	no	NA	324	190	141; 176*
<i>Value of platelet/lymphocyte ratio as a predictor of all-cause mortality after non-ST-elevation myocardial infarction.</i>	Azab B	201 2	no	NA	619	118.4;176	NA
<i>The Relation of Platelet-Lymphocyte Ratio and Coronary Collateral Circulation in Patients With Stable Angina Pectoris and Chronic Total Occlusion</i>	Acar G	201 3	no	NA	294	NA	157; 132*

*Multiple groups

Δ PLR calculated by subtracting the preoperative PLR from the postoperative PLR.

NA, not applicable