Table 4 Study population characteristics stratified by BLRmax quintile

Variables	Q1	Q2	Q3	Q4	Q5	*p* for trend
granulocytes(%)	56.8±9.2	63.5±8.4	71.1±6.3	74.3±8.0	76.3±6.3	<0.001
metamyelocytes(%)	9.2±4.2	10.8±3.3	10.7±4.7	11.3±4.3	13.6±3.6	0.031
erythrocytes(%)	24.0±9.1	19.9±8.2	15.6±5.4	14.2±9.0	14.8±6.7	0.004
lymphocytes(%)	15.5±11.4	12.7±7.2	10.2±4.4	8.6±3.1	7.0±3.9	0.005
monocytes(%)	2.5±1.7	2.7±1.8	2.4±1.4	2.2±2.5	2.1±1.6	0.496
promyelocytes(%)	1.7±1.2	1.0±0.9	0.4±0.4	1.9±2.1	2.7±2.9	0.105
myelocytes (%)	8.4±3.7	8.8±5.6	9.2±2.7	9.0±5.5	12.8±4.2	0.057
band forms neutrophils(%)	13.9±5.1	16.6±6.3	19.6±8.2	18.7±7.4	17.9±5.1	0.143
segmented neutrophils(%)	21.0±8.1	24.6±11.4	25.4±13.8	28.9±13.9	25.5±8.6	0.26
neutrophils(%)	54.4±9.6	62.0±9.1	65.4±14.2	70.2±8.4	73.1±5.8	<0.001
ferritin(ng/ml)	653.9±802.3	1253.6±764.3	1594.6±774.3	1612.6±718.2	1789.5±462.5	0.005
CRP(mg/l)	28.6±45.8	49.3±47.4	52.7±84.8	68.8±55.0	88.1±51.1	0.027
hemoglobin(g/l)	109.1±15.6	102.8±22.0	115.2±22.0	104.9±13.2	101.2±18.9	0.481
alkaline phosphatase(U/L)	98.7±62.0	119.9±59.0	72.7±37.1	117.4±55.9	115.4±56.6	0.588
total protein(g/l)	70.3±15.9	66.3±9.3	65.1±10.2	65.3±3.5	63.3±7.3	0.167
albumin(g/l)	34.4±5.3	33.3±6.8	34.0±4.7	31.4±4.5	31.3±4.4	0.144
ALT(U/L)	71.9±151.0	32.6±19.8	43.3±49.2	55.2±44.0	67.0±43.6	0.876

AST(U/L)	68.9±150.4	38.6±26.6	48.8±49.4	53.7±31.3	77.6±102.8	0.725

Table 5 Rank correlation analysis

	BLRmax	SLRmax
age	-0.095(0.532)	0.035(0.820)
gender	-0.061(0.686)	-0.100(0.510)
fever	-0.295(0.046)	-0.427(0.003)
glucose level	-0.132(0.381)	0.033(0.830)
hemoglobin	-0.113(0.455)	-0.309(0.036)
CRP	0.426(0.005)	0.349(0.025)
ferritin	0.540(0.001)	0.392(0.024)
total protein	-0.307(0.038)	-0.274(0.066)
albumin	-0.248(0.097)	-0.187(0.214)
alkaline phosphatase	0.113(0.457)	0.023(0.879)
alanine aminotransferase	0.298(0.044)	0.268(0.071)
aspartate aminotransferase	0.334(0.023)	0.446(0.002)
haemopoietic activity	-0.324(0.028)	-0.025(0.870)
granulocytes	0.743(<0.0001)	0.443(0.002)
erythrocytes	-0.474(0.001)	-0.136(0.368)

lymphocytes	-0.466(0.001)	-0.441(0.002)
monocytes	-0.129(0.392)	-0.216(0.149)
promyelocytes	0.142(0.346)	0.250(0.094)
myelocytes	0.287(0.053)	0.327(0.026)
metamyelocytes	0.332(0.024)	0.313(0.034)
band forms neutrophils	0.274(0.066)	0.182(0.225)
segmented neutrophils	0.210(0.162)	0.013(0.930)
neutrophils	0.665(<0.0001)	0.393(0.007)

Values indicate correlation coefficient (r) and p-value (in parentheses).

Table 6 Multivariate stepwise linear regression between BLRmax and participant variables.

model	step	variable	R	adjusted R^2	Unstandardized B (95% CI)	standardized β coefficient	t	Sig.
1[a]	1	granulocytes	0.67	0.431	0.042(0.028 to 0.056)	0.666	5.926	<0.0001
	1	ferritin	0.482	0.208	0.0003(0.000 to 0.001)	0.354	2.519	0.018
2[b]	2	CRP	0.622	0.346	0.005(0.001 to 0.009)	0.331	2.356	0.025
	3	metamyelocytes	0.685	0.414	0.058(0.002 to 0.115)	0.304	2.116	0.043

[a] Participant variables in model 1 included BMA variables(the proportion of granulocytes, lymphocytes, erythrocytes, and monocytes in BM), laboratory variables and clinical variables.[b] In model 2, the BMA variables were replaced with the proportion of promyelocytes, myelocytes, metamyelocytes, band forms, and segmented neutrophils in BM.

Table 7 Multivariate stepwise linear regression between SLRmax and participant variables.

step	variable	R	adjusted R*2*	Unstandardized B (95% CI)	standardized β coefficient	t	Sig.
1	ferritin	0.409	0.14	0.0002(0.000 to 0.0004)	0.507	3.151	0.004
2	hemoglobin	0.532	0.235	-0.008(-0.015 to -0.001)	-0.354	-2.203	0.035