

**Table S1** Correlation analysis of the NLPR, NLR and PLR with clinical variables

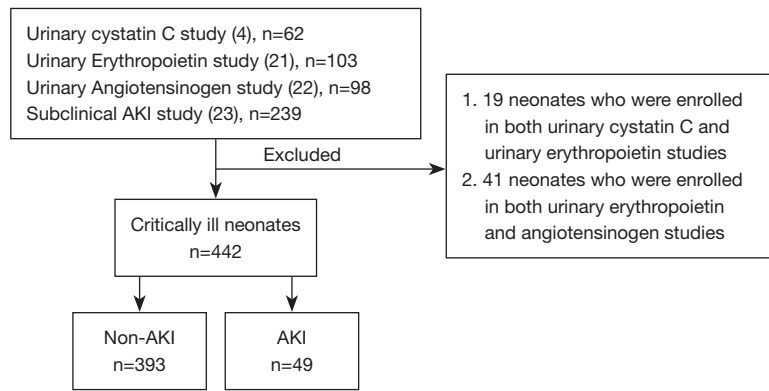
Variables	NLPR <sup>a</sup>		NLR <sup>a</sup>		PLR <sup>a</sup>	
	r	P value	r	P value	r	P value
Gestational age, weeks	0.385	<0.001	0.427	<0.001	0.056	0.236
Birth weight, g	0.377	<0.001	0.438	<0.001	0.065	0.172
Male	-0.032	0.501	-0.026	0.580	-0.005	0.917
SNAP, score	-0.134	0.005	-0.205	<0.001	-0.194	<0.001
AKI	-0.026	0.586	-0.100	0.036	-0.125	0.008
Apnea <sup>b</sup>	-0.079	0.099	-0.168	<0.001	-0.052	0.274
Sepsis <sup>b</sup>	-0.008	0.862	-0.078	0.103	-0.012	0.796
RDS <sup>b</sup>	-0.197	<0.001	-0.198	<0.001	-0.013	0.787
HIE <sup>b</sup>	0.139	0.003	0.120	0.012	-0.033	0.484
CPAP <sup>b</sup>	-0.083	0.083	-0.110	0.020	-0.057	0.233
MV <sup>b</sup>	-0.085	0.074	-0.136	0.004	-0.170	<0.001
Surfactant <sup>b</sup>	-0.230	<0.001	-0.231	<0.001	-0.093	0.051
Inotrope <sup>b</sup>	-0.075	0.115	-0.125	0.008	-0.174	<0.001
NICU mortality	-0.090	0.059	-0.184	<0.001	-0.123	0.010
Serum sodium <sup>c</sup> , mmol/L	-0.030	0.535	-0.038	0.435	-0.089	0.066
Serum potassium <sup>c</sup> , mmol/L	0.016	0.736	0.018	0.704	-0.007	0.889
Serum glucose <sup>c</sup> , mmol/L	0.064	0.182	0.120	0.013	0.173	<0.001
Serum bicarbonate <sup>c</sup> , mmol/L	0.002	0.963	-0.003	0.953	0.012	0.806
Serum creatinine <sup>c</sup> , μmol/L	0.244	<0.001	0.229	<0.001	0.005	0.919
BUN <sup>c</sup> , mmol/L	0.228	<0.001	0.203	<0.001	0.046	0.339
Neutrophil <sup>a</sup> , 10 <sup>9</sup> /L	0.736	<0.001	0.813	<0.001	0.009	0.853
Lymphocyte <sup>a</sup> , 10 <sup>9</sup> /L	-0.465	<0.001	-0.517	<0.001	-0.779	<0.001
Platelet <sup>a</sup> , 10 <sup>9</sup> /L	-0.358	<0.001	0.019	0.694	0.547	<0.001

r, spearman's correlation coefficient. AKI was developed during the first 7 days after NICU admission. <sup>a</sup>, obtained on NICU admission; <sup>b</sup>, developed during NICU stay; <sup>c</sup>, the first available laboratory results during the first 24 h after admission. AKI, acute kidney injury; BUN, blood urea nitrogen; CPAP, continuous positive air way pressure; HIE, hypoxic ischemic encephalopathy; MV, mechanical ventilation; NICU, neonatal intensive care unit; NLPR, neutrophil, lymphocyte, and platelet ratio; NLR, neutrophil-lymphocyte ratio; PLR, platelet-lymphocyte ratio; RDS, respiratory distress syndrome; SNAP, the score for neonatal acute physiology.

**Table S2** Comparisons of the demographic and clinical characteristics and laboratory results between survivors and non-survivors

Variables	Survivors, n=407	Non-survivors, n=35	P value
<b>Neonatal characteristics</b>			
Gestational age, weeks	35.1 [32.7–38.1]	31.4 [29.4–35.9]	<0.001
26–28	10 (2.5)	6 (17.1)	<0.001
29–32	99 (24.3)	16 (45.7)	0.006
33–36	159 (39.1)	7 (20.0)	0.025
37–42	139 (34.2)	6 (17.1)	0.040
Birth weight, g	2,305.0 [1,800.0–3,100.0]	1,500.0 [1,100.0–2,000.0]	<0.001
Male	253 (62.2)	22(62.9)	0.935
SNAP score	7.0 [5.0–10.0]	10.0 [7.0–12.0]	<0.001
Apnea <sup>a</sup>	62 (15.2)	18 (51.4)	<0.001
AKI	39 (9.6)	10 (28.6)	0.002
Sepsis <sup>a</sup>	27 (6.6)	9 (25.7)	0.001
RDS <sup>a</sup>	55 (13.5)	12 (34.3)	0.003
HIE <sup>a</sup>	23 (5.7)	3 (8.6)	0.449
CPAP <sup>a</sup>	128 (31.4)	20 (57.1)	0.003
MV <sup>a</sup>	59(14.5)	19 (54.3)	<0.001
Surfactant <sup>a</sup>	44 (10.8)	7 (20.0)	0.161
Inotrope <sup>a</sup>	58 (14.3)	10 (28.6)	0.031
Serum sodium <sup>b</sup> , mmol/L	135.6 [133.0–138.0]	135.0 [132.0–138.2]	0.292
Serum potassium <sup>b</sup> , mmol/L	4.6 [4.2–5.1]	4.6 [4.2–5.1]	0.994
Serum glucose <sup>b</sup> , mmol/L	3.4[2.5–4.3]	3.9 [2.3–5.1]	0.412
Serum bicarbonate <sup>b</sup> , mmol/L	19.3 [17.5–21.2]	18.3 [16.6–20.5]	0.064
Serum creatinine <sup>b</sup> , $\mu$ mol/L	58.2 [48.9–69.9]	59.0 [44.3–72.3]	0.891
BUN <sup>b</sup> , mmol/L	3.8 [3.1–4.9]	4.0 [3.2–5.8]	0.512
NLPR <sup>c</sup>	0.9 [0.5–1.7]	0.7 [0.3–1.2]	0.059
NLR <sup>c</sup>	2.2 [1.2–3.6]	1.6 [0.7–2.0]	<0.001
PLR <sup>c</sup>	67.0 [50.9–93.1]	40.7 [30.6–99.2]	0.010
<b>Maternal characteristics</b>			
Hypertension <sup>d</sup>	34 (8.4)	4 (11.4)	0.527
Diabetes <sup>d</sup>	23 (5.7)	2 (5.7)	0.990
Prenatal steroids	46 (11.3)	5 (14.3)	0.581

Values are median [interquartile range] or number (percentage). AKI was developed during the first 7 days after NICU admission. <sup>a</sup>, developed during NICU stay; <sup>b</sup>, the first available laboratory results during the first 24 hours after NICU admission; <sup>c</sup>, obtained on NICU admission; <sup>d</sup>, diagnosed during the pregnancy. AKI, acute kidney injury; BUN, blood urea nitrogen; CPAP, continuous positive air way pressure; HIE, hypoxic ischemic encephalopathy; MV, mechanical ventilation; NICU, neonatal intensive care unit; NLPR, neutrophil, lymphocyte, and platelet ratio; NLR, neutrophil-lymphocyte ratio; PLR, platelet-lymphocyte ratio; RDS, respiratory distress syndrome; SNAP, the score for neonatal acute physiology.



**Figure S1** Study flow diagram. AKI, acute kidney injury.