

Supplement 1. Postoperative hematological findings

Variable	Median (IQR)		P-value
	AA(+) group	AA(-) group	
1 week after surgery	n=73	n=82	
White blood cells (/μL)	7,800 (6,550–10,100)	7,500 (6,300–9,100)	0.1271
Neutrophils (/μL)	6,125 (4,781–8,109)	5,420 (4,532–6,922)	0.0545
Lymphocytes (/μL)	929 (800–1,218)	1,006 (786–1,256)	0.3190
Hemoglobin (g/dL)	10.6 (9.5–11.8)	10.7 (9.6–12.1)	0.4407
Platelets (×10 ⁴ /μL)	33.0 (26.6–37.1)	30.3 (26.0–35.8)	0.3027
Serum albumin (mg/dL)	3.0 (2.7–3.2)	2.9 (2.7–3.1)	0.5547
AST (U/L)	23.0 (17.5–33.0)	26.0 (17.0–35.0)	0.6747
ALT (U/L)	42.0 (26.0–71.0)	39.0 (20.8–69.0)	0.3086
γ-GTP (U/L)	102 (44–179)	60.5 (34–140)	<u>0.0217</u>
Total bilirubin (mg/dL)	0.7 (0.5–1.0)	0.7 (0.5–0.9)	0.5103
CRP (mg/dL)	4.96 (2.06–8.96)	4.81 (2.48–7.89)	0.8297
NLR	6.5 (4.3–9.2)	5.4 (3.6–7.8)	0.0719
PLR	337.1 (252.9–412.3)	319.1 (225.1–405.5)	0.3440
PNI	35.5 (31.2–37.7)	35 (32.0–37.4)	0.9443
2 weeks after surgery	n=72	n=82	
White blood cells (/μL)	6,900 (5,600–8,925)	6,800 (5,500–8,525)	0.8891
Neutrophils (/μL)	4,889 (3,868–6,824)	4,857 (3,614–6,231)	0.5816
Lymphocytes (/μL)	1,092 (914–1,318)	1,118 (844–1,497)	0.8745
Hemoglobin (g/dL)	10.9 (9.9–11.6)	11.0 (10.1–12.2)	0.1872
Platelets (×10 ⁴ /μL)	48.6 (39.3–63.8)	46.5 (40.3–57.5)	0.3928
Serum albumin (mg/dL)	3.3 (3.0–3.5)	3.3 (3.0–3.5)	0.6800
AST (U/L)	20.0 (15.3–26.0)	19.0 (15.0–26.3)	0.6309
ALT (U/L)	30.0 (17.0–44.8)	18.5 (13.8–44.5)	0.0789
γ-GTP (U/L)	102.5 (49.5–180.5)	53.0 (29.0–101.0)	<u>0.0007</u>
Total bilirubin (mg/dL)	0.5 (0.4–0.6)	0.4 (0.3–0.6)	0.4353
CRP (mg/dL)	0.83 (0.37–2.63)	1.02 (0.56–1.88)	0.7078
NLR	4.3 (3.1–6.1)	4.0 (2.9–6.1)	0.3962
PLR	443.3 (321.9–592.8)	437.2 (305.8–550.5)	0.5829
PNI	38.3 (35.4–41.2)	38.8 (35.2–41.3)	0.9550
4 weeks after surgery	n=62	n=56	
White blood cells (/μL)	5,850 (4,575–7,225)	5,400 (4,300–6,975)	0.5038
Neutrophils (/μL)	3,534 (2,659–4,975)	3,343 (2,516–4,422)	0.2606

Lymphocytes (/μL)	1,292 (1,053–1,563)	1,376 (1,084–1,704)	0.3808
Hemoglobin (g/dL)	11.7 (10.7–12.6)	11.8 (10.9–12.5)	0.9570
Platelets (×10 ⁴ /μL)	24.6 (20.6–31.5)	24.2 (20.9–30.7)	0.9463
Serum albumin (mg/dL)	3.8 (3.4–4.0)	3.7 (3.4–3.9)	0.7251
AST (U/L)	19.0 (15.0–23.3)	19.5 (17.0–23.0)	0.7705
ALT (U/L)	17.0 (13.0–24.3)	18.0 (13.0–28.0)	0.8292
γ-GTP (U/L)	53.0 (29.5–73.5)	28.0 (20.0–44.0)	<u>0.0021</u>
Total bilirubin (mg/dL)	0.5 (0.4–0.6)	0.5 (0.3–0.6)	0.6137
CRP (mg/dL)	0.18 (0.05–0.82)	0.16 (0.05–0.37)	0.4175
NLR	2.5 (2.0–4.0)	2.3 (1.7–3.8)	0.1468
PLR	193.9 (138.2–271.2)	191.3 (137.7–238.4)	0.5105
PNI	44.6 (40.6–46.9)	44.6 (40.1–46.7)	0.9484

IQR, interquartile range; AA(+), IV amino acids administered by postoperative day 6; AA(–), no amino acids administered; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GTP, γ-glutamyl transpeptidase; CRP, C-reactive protein; NLR, neutrophil to lymphocyte ratio; PLR, platelet to lymphocyte ratio; PNI, prognostic nutritional index.