

S1 Table. Analysis of factors affecting the development of acute severe lymphopenia^{a)}

Variable	Univariable analysis		Multivariable analysis	
	OR (95% CI)	p-value	OR (95% CI)	p-value
Age > 60 yr (vs. ≤ 60 yr)	0.33 (0.14-0.75)	0.009	-	-
Female (vs. male)	0.91 (0.33-2.47)	0.852	-	-
Hepatitis viral infection (vs. no infection)	1.22 (0.45-3.28)	0.695	5.26 (0.86-32.02)	0.072
Multiple tumors (vs. single tumor)	1.18 (0.53-2.66)	0.683	-	-
Liver cirrhosis (vs. no)	2.42 (1.06-5.51)	0.035	-	-
Child-Pugh class B (vs. A)	2.14 (0.63-7.3)	0.224	-	-
PVTT (vs. no)	3.86 (1.65-9.01)	0.002	-	-
Previous treatment (vs. no)	0.38 (0.16-0.87)	0.022	-	-
UICC stage III/IV (vs. I/II)	2.63 (0.99-6.99)	0.053	-	-
AFP (per 1 ng/mL increase)	1.00 (1.00-1.00)	0.159	-	-
PIVKA-II (per 1 mAU/mL increase)	1.00 (1.00-1.00)	0.012	-	-
Baseline lymphopenia (≤ 1000 cells/μL; vs. no)	11.55 (4.37-30.52)	< 0.001	30.13 (6.83-132.85)	< 0.001
Combined therapy (vs. radiotherapy alone)	4.89 (1.78-13.44)	0.002	-	-
Total radiation dose (per 1 Gy increase)	1.03 (0.96-1.12)	0.384	-	-
Mean liver dose (per 1 Gy increase)	1.04 (1.02-1.07)	< 0.001	1.10 (1.05-1.15)	< 0.001
Pre-radiotherapy IL-7 (per 1 pg/mL increase)	0.71 (0.54-0.94)	0.015	0.51 (0.32-0.82)	0.005

AFP, α -fetoprotein; CI, confidence interval; IL-7, interleukin-7; OR, odds ratio; PIVKA-II, protein induced by vitamin K absence-II; PVTT, portal vein tumor thrombosis; UICC, Union for International Cancer Control. ^{a)}Acute severe lymphopenia was defined as a total lymphocyte count of < 200 cells/μL during radiotherapy (i.e., grade 4 lymphopenia).