

**Table S2.** Univariate and multivariate survival analyses in patients treated with hematopoietic stem cell transplantation

	Overall group				Propensity-score matched group			
	5-yr OS (%)	Univariate p-value	Multivariate HR (95% CI) p-value		5-yr OS (%)	Univariate p-value	Multivariate HR (95% CI) p-value	
Age (yr), continuous variable		<0.001	-			<0.001	-	
≤ 20	70.2	<0.001	Ref		69.8	<0.001	Ref	
> 20 and ≤ 47	60.0		1.47 (1.27–1.69)	<0.001	62.0		1.38 (1.15–1.65)	<0.001
> 47	51.0		2.04 (1.77–2.36)	<0.001	51.6		1.90 (1.58–2.29)	<0.001
Sex								
Male	53.3	0.010	Ref		58.5	0.018	Ref	
Female	61.1		0.86 (0.78–0.94)	0.002	63.0		0.84 (0.74–0.96)	0.007
Subtype								
Lymphoid leukemia (C91)	57.0	0.006	Ref		59.5	0.601	-	
Myeloid leukemia (C92)	61.0		0.81 (0.73–0.89)	<0.001	61.5		-	
Others (C93–C95)	54.5		0.98 (0.81–1.18)	0.800	58.8		-	
Insurance								
Medicare	59.2	0.250	Ref		57.9	0.531	-	
Medicaid	55.9		0.85 (0.69–1.03)	0.100	61.5		-	
Hospital location (provinces)								
Seoul	60.7	<0.001	Ref		61.2	<0.001	Ref	
Gyeonggi	52.3		1.08 (0.86–1.37)	0.500	53.1		1.11 (0.77–1.61)	0.6
Gyeongsang	52.8		1.03 (0.83–1.28)	0.800	38.3		1.65 (1.07–2.55)	0.022
Jeolla	69.1		0.69 (0.55–0.86)	<0.001	71.0		0.74 (0.52–1.05)	0.090
Chungcheong/Gangwon	48.9		1.12 (0.81–1.54)	0.500	33.3		1.86 (0.80–4.35)	0.15
Hospital volume								
≤ 200 cases	53.3	<0.001	Ref		52.0	0.001	Ref	
> 200 cases	61.7		0.85 (0.71–1.03)	0.091	61.7		0.88 (0.67–1.17)	0.4
CCI		0.052				<0.001	-	
0–2	60.1	0.004	Ref		62.3	<0.001	Ref	
3	55.9		1.11 (0.99–1.25)	0.085	56.9		1.13 (0.98–1.31)	0.10
≥ 4	52.7		1.26 (1.02–1.57)	0.035	50.6		1.45 (1.12–1.88)	0.005
Year of transplantation								
2009–2012	59.4	0.489	NA		60.6	0.821	-	
2013–2016	58.6		-		60.5		-	
Chemotherapy								
Bu/Flu or Bu/Flu containing CTx	58.6	0.734	NA		60.4	0.432	-	
Bu/Cy or BuCy containing CTx	57.1		-		58.7		-	
Cy or Cy containing CTx	59.6		-		59.9		-	
Cy/Flu or Cy/Flu containing CTx	62.9		-		63.3		-	
AraC or AraC containing CTx	60.1		-		61.1		-	
Flu or Flu containing Ctx	63.7		-		63.1		-	
Other	65.5		-		91.7		-	
ATG								
Not administered	58.3	0.610	NA		60.6	0.590	-	
Administered	59.6		-		60.4		-	
TBI								
Not performed	57.7	0.041	Ref		59.3	0.432	-	
Performed	61.8		0.84 (0.72–0.98)	0.031	61.8		-	

TBI, total body irradiation; CCI, Charlson Comorbidity Index; Bu, busulfan; Flu, fludarabine; Cy, cyclophosphamide; CTx, chemotherapy, AraC, cytarabine; ATG, anti-thymocyte globulin; OS, overall survival; HR, hazard ratio; CI, confidence interval; NA, not available.