Table S1. The unadjusted hazard rate ratios for the graft loss and patient mortality.

	Graft failure		Patient mortality	
	Unadjusted HR (95% CI)	*P* value	Unadjusted HR (95% CI)	*P* value
Age	1.01 (1.01-1.01)	<0.01	1.02 (1.01-1.02)	<0.01
Gender: Male	1.00		1.00	
Female	0.95 (0.91-0.98)	<0.01	0.95 (0.92-0.99)	<0.01
Race: White	1.00		1.00	
Black	1.28 (1.21-1.35)	<0.01	1.26 (1.19-1.33)	<0.01
Hispanic	0.94 (0.89-0.99)	0.02	0.94 (0.89-1.00)	0.04
Asian	0.78 (0.69-0.87)	<0.01	0.75 (0.66-0.85)	<0.01
Other	0.98 (0.83-1.15)	0.79	0.97 (0.82-1.16)	0.76
Morbid obesity	1.09 (1.00-1.19)	0.06	1.11 (1.02-1.22)	0.02
BMI	1.00 (1.00-1.00)	0.85	1.00 (1.00-1.01)	0.22
Diagnosis: PBC and PSC	1.00		1.00	
HCV	1.51 (1.42-1.61)	<0.01	1.77 (1.65-1.89)	<0.01
AC	1.18 (1.10-1.27)	<0.01	1.39 (1.29-1.50)	<0.01
AIH	1.18 (1.056-1.32)	<0.01	1.30 (1.15-1.46)	<0.01
HCC	3.56 (1.48-8.56)	<0.01	4.81 (2.00-11.57)	<0.01
NASH and Cryptogenic	1.20 (1.12-1.29)	<0.01	1.41 (1.30-1.52)	<0.01
Other	1.18 (1.10-1.26)	<0.01	1.30 (1.21-1.41)	<0.01
MELD score	1.01 (1.01-1.01)	<0.01	1.01 (1.01-1.01)	<0.01
Encephalopathy	1.15 (1.10-1.20)	<0.01	1.20 (1.16-1.26)	<0.01
Center, LTs per year <20	1.00		1.00	
20-50	1.03 (0.92-1.15)	0.6	0.97 (0.87-1.083)	0.57
>50	0.98 (0.89-1.09)	0.77	0.90 (0.81-1.09)	0.07
Time of surgery: 7 AM-9 PM	1.00		1.00	
10 PM-6 AM	0.97 (0.91-1.03)	0.27	0.96 (0.91-1.03)	0.24

	Graft failure		Patient mortality	
	Unadjusted HR (95% CI)	*P* value	Unadjusted HR (95% CI)	*P* value
Week day	1.00		1.00	
Weekend	0.99 (0.95-1.03)	0.57	0.99 (0.96-1.04)	0.78
Spring, Fall, and Winter	1.00		1.00	
Summer	0.98 (0.94-1.02)	0.29	0.99 (0.95-1.03)	0.52
Donor Risk Index	1.39 (1.34-1.44)	<0.01	1.33 (1.28-1.38)	<0.01

Figure S1. The patient survival comparing holidays (Thanksgiving and Christmas week) and also weekdays and weekends (after excluding these holidays from these two groups) (*P* value = 0.99).
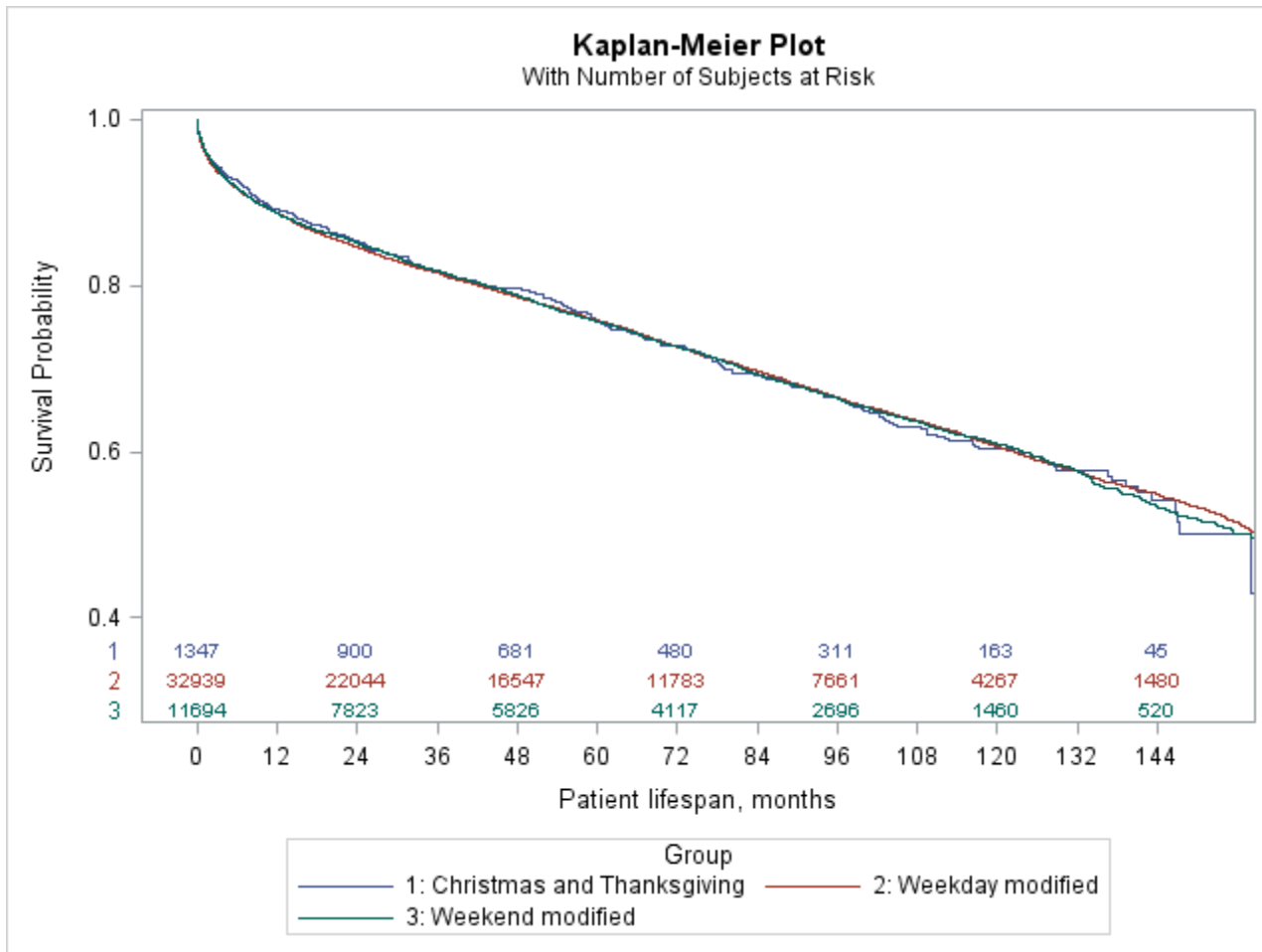
Figure S2A. Patient survival for HCC individuals stratified by night/day (*P* = 0.1).
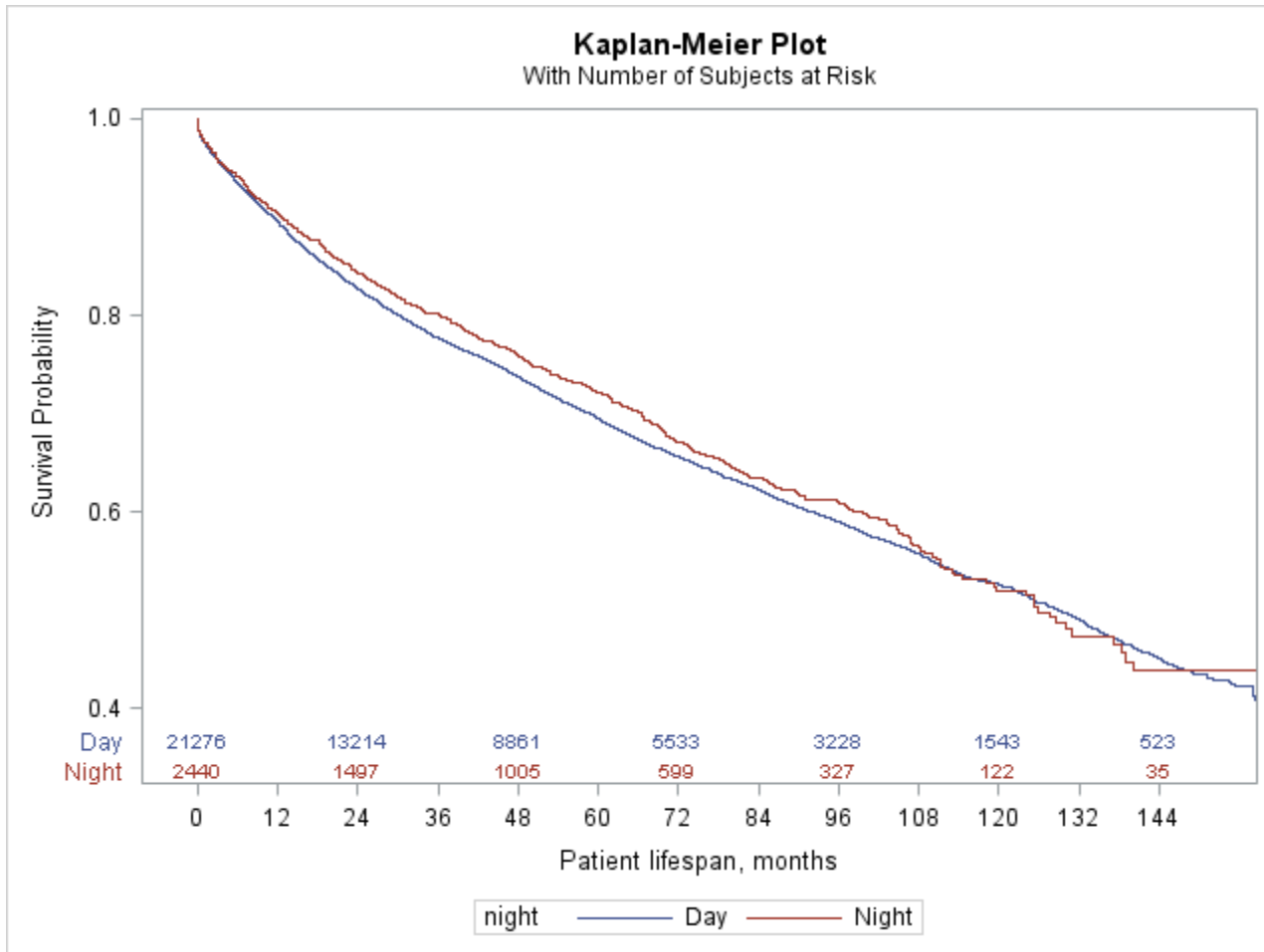
Figure S2B. Patient survival for HCC individuals stratified by weekend/week day ($P = 0.2$).
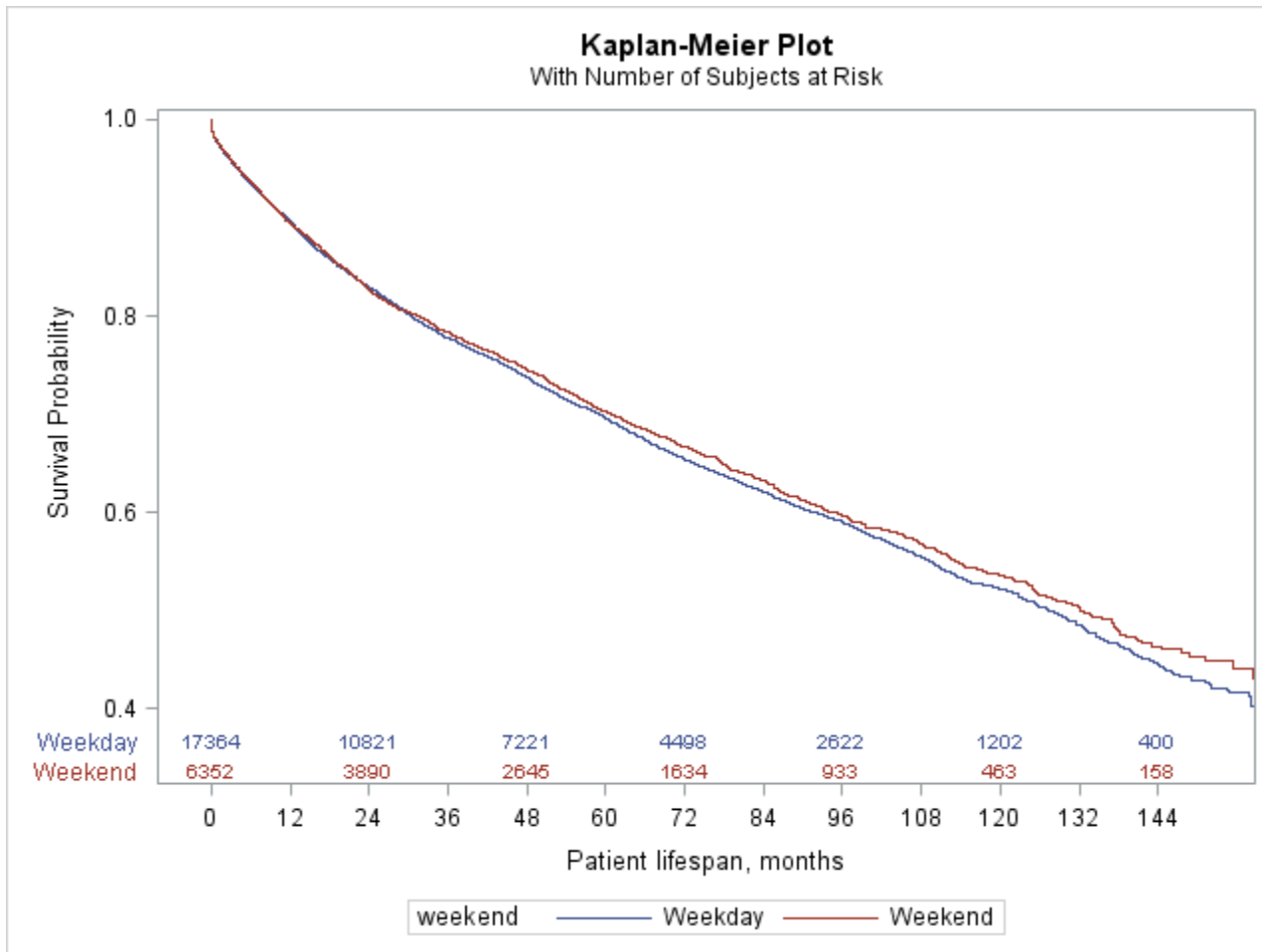
Figure S2C. Patient survival for HCC individuals stratified by summer/other months (*P* = 0.24).

Kaplan-Meier Plot
With Number of Subjects at Risk

	0	12	24	36	48	60	72	84	96	108	120	132	144
Not summer	17384		10783		7205		4449		2527		1181		398
Summer	6332		3928		2661		1683		1028		484		160

Patient lifespan, months

summer ——— Not summer ——— Summer