

Supplementary Materials

Supplementary Figure 1. Kaplan–Meier curve for (A) overall, (B) gastric cancer-specific survival and (C) recurrence according to quartiles of postoperative resting heart rate, stratified by cancer stage

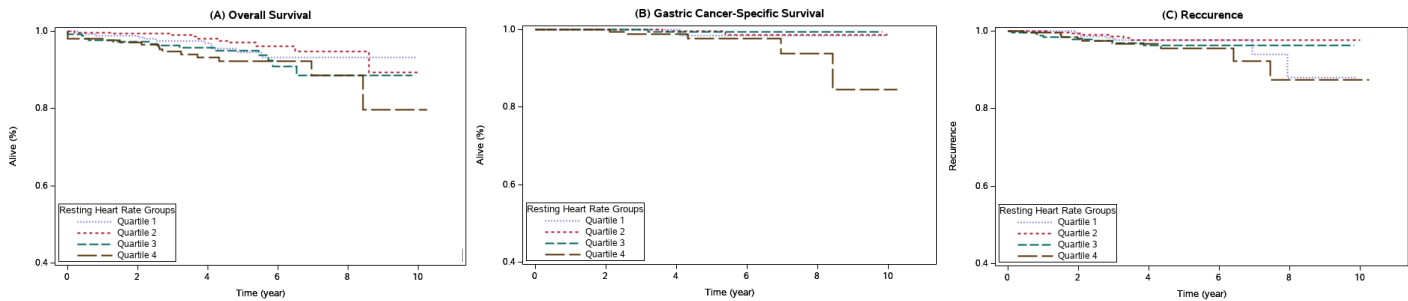
Supplementary Figure 2. Kaplan–Meier curve for (A) overall, (B) gastric cancer-specific survival and (C) recurrence according to quartiles of postoperative resting heart rate, stratified by presence of major complication within 30 days

Supplementary Table S1. Resting heart rates in patients with gastric cancer according to post-operative days

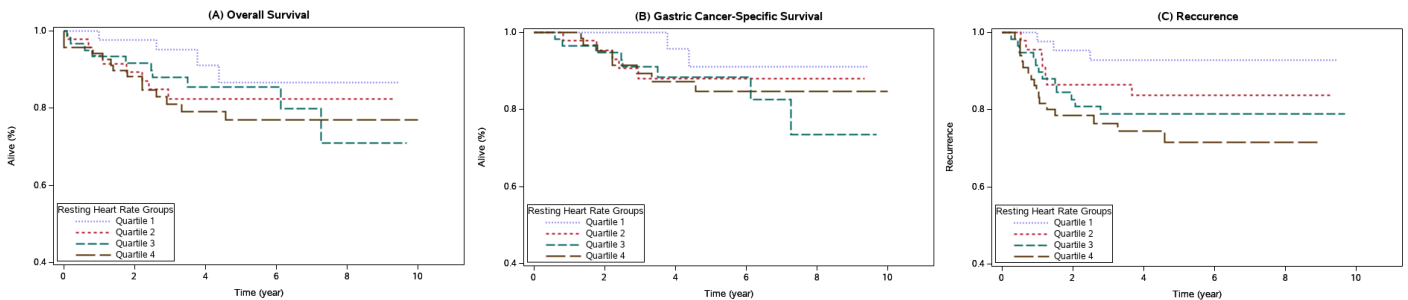
Supplementary Table S2. Sensitivity analyses of the association between resting heart rate measured at different days and prognosis outcomes in patients with gastric cancer

Supplementary Figure 1. Kaplan–Meier curve for (A) overall, (B) gastric cancer-specific survival and (C) recurrence according to quartiles of postoperative resting heart rate, stratified by cancer stage

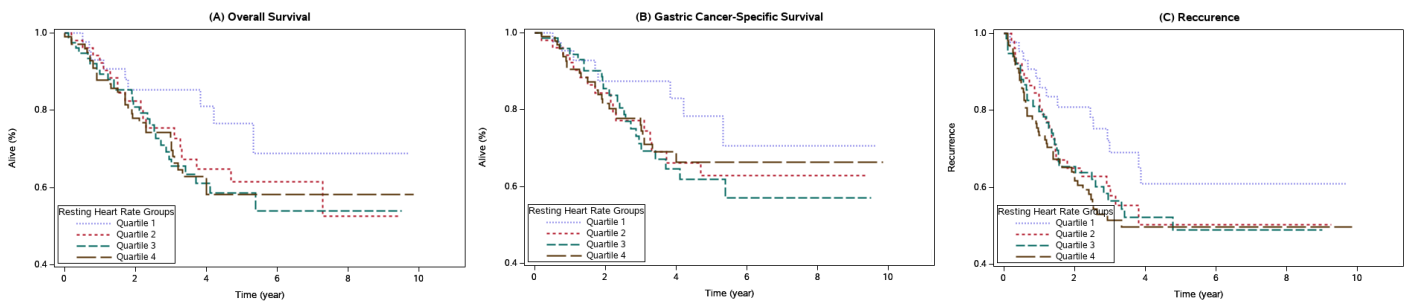
Patients with stage 1 gastric cancer



Patients with stage 2 gastric cancer

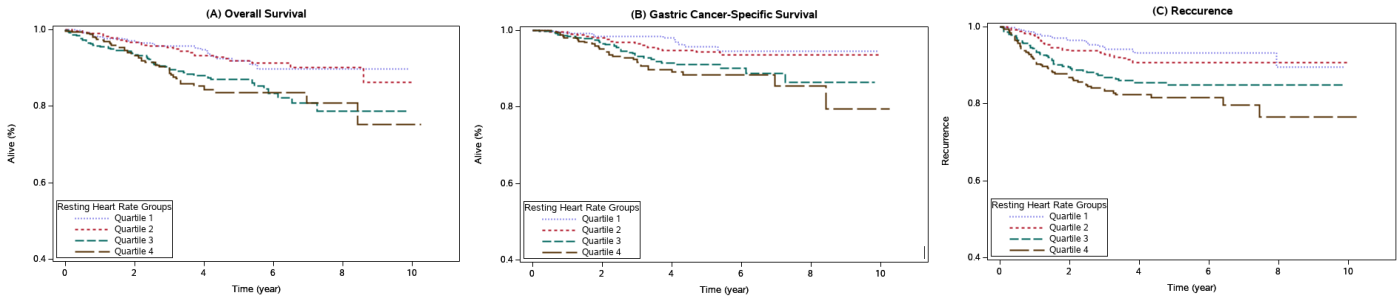


Patients with stage 3 gastric cancer

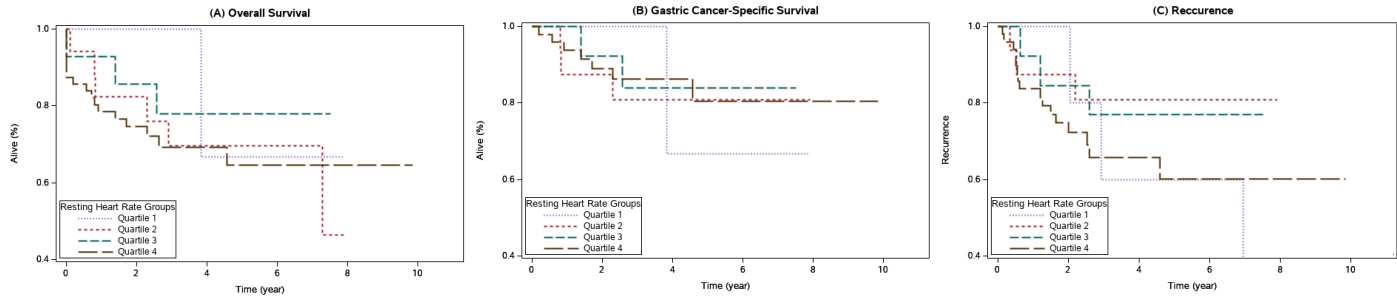


Supplementary Figure 2. Kaplan–Meier curve for (A) overall, (B) gastric cancer-specific survival and (C) recurrence according to quartiles of postoperative resting heart rate, stratified by presence of major complication within 30 days

Gastric cancer patients without major complication within 30 days



Gastric cancer patients with major complication within 30 days



Supplementary Table S1. Resting heart rate in patients with gastric cancer according to post-operative days

	Resting heart rate, bpm				
	RHR day 0	RHR day 1	RHR day 2	RHR day 3	RHR day 5
N	1,561	1,561	1,561	1,561	1,561
Mean (SD)	87.2 (12.8)	89.1 (14.0)	88.9 (14.8)	84.0 (14.6)	79.1 (13.9)

RHR day 0: Resting heart rate measured on the day of surgery

RHR day 1: Resting heart rate measured 1 day after surgery

RHR day 2: Resting heart rate measured 2 days after surgery

RHR day 3: Resting heart rate measured 3 days after surgery

RHR day 5: Resting heart rate measured 5 days after surgery

Supplementary Table S2. Sensitivity analyses of the association between resting heart rate measured at different days and prognosis outcomes in patients with gastric cancer

	Resting heart rate, bpm (every 10 bpm increase)					
	Preoperative	Postoperative				
	RHR day -1	RHR day 0	RHR day 1	RHR day 2	RHR day 3	RHR day 5
All-cause mortality						
Event	170	170	170	170	170	170
Model 1	1.17 (1.03–1.32)	1.19 (1.07–1.32)	1.24 (1.13–1.36)	1.19 (1.09–1.30)	1.17 (1.08–1.26)	1.34 (1.23–1.45)
Model 2	0.98 (0.86–1.12)	1.09 (0.97–1.22)	1.12 (1.00–1.24)	1.09 (0.99–1.20)	1.10 (1.00–1.21)	1.18 (1.07–1.32)
Major complication within 30 days						
Event	92	92	92	92	92	92
Model 1	1.19 (1.01–1.41)	1.28 (1.12–1.46)	1.34 (1.21–1.48)	1.48 (1.35–1.62)	1.39 (1.30–1.49)	1.25 (1.19–1.32)
Model 2	1.14 (0.96–1.36)	1.27 (1.11–1.47)	1.37 (1.22–1.55)	1.51 (1.37–1.67)	1.40 (1.29–1.51)	1.23 (1.17–1.30)
Recurrence						
Event	191	191	191	191	191	191
Model 1	1.28 (1.14–1.44)	1.25 (1.14–1.38)	1.26 (1.15–1.38)	1.25 (1.15–1.35)	1.19 (1.11–1.28)	1.31 (1.21–1.42)
Model 2	1.06 (0.93–1.21)	1.08 (0.97–1.20)	1.07 (0.96–1.18)	1.09 (0.99–1.20)	1.08 (0.99–1.17)	1.13 (1.02–1.25)
Gastric cancer-specific mortality						
Event	104	104	104	104	104	104
Model 1	1.31 (1.12–1.53)	1.26 (1.12–1.43)	1.30 (1.16–1.47)	1.26 (1.13–1.40)	1.19 (1.07–1.32)	1.33 (1.18–1.49)
Model 2	1.01 (0.86–1.18)	1.10 (0.95–1.27)	1.07 (0.93–1.23)	1.08 (0.95–1.23)	1.08 (0.96–1.22)	1.07 (0.93–1.24)

Model 1: adjusted for age (continuous) and sex

Model 2: Model 1 + pathological cancer stage (1, 2, 3), BMI (continuous), smoking (never, current or past), alcohol (never, current or past), family history of gastric cancer (Yes or No), hypertension (Yes or No), diabetes (Yes or No), CVD (Yes or No), adjuvant therapy (yes or no), radiation therapy (Yes or No), neoadjuvant therapy (Yes or No), surgery type (open, laparoscopic or robotic surgery) and extent of surgery (subtotal or total gastrectomy)

RHR day -1: resting heart rate measured 1 day before surgery

RHR day 0: resting heart rate measured on the day of surgery

RHR day 1: resting heart rate measured 1 day after surgery

RHR day 2: resting heart rate measured 2 days after surgery

RHR day 3: resting heart rate measured 3 days after surgery

RHR day 5: resting heart rate measured 5 days after surgery