

Table S1. Uni- and multivariate binary logistic regression analysis for LNM in all patients

Parameter	Univariate Analysis			Multivariate Analysis		
	Odds Ratio	95% CI	P	Odds Ratio	95% CI	P
Age			<0.001			<0.001
20-39	Ref			Ref		
40-49	0.85	0.71 1.02	0.081	0.92	0.75 1.13	0.435
50-59	0.80	0.67 0.95	0.009	0.91	0.75 1.11	0.349
60-69	0.71	0.60 0.83	<0.001	0.87	0.72 1.05	0.146
70-79	0.60	0.51 0.70	<0.001	0.76	0.63 0.91	0.003
80+	0.55	0.46 0.64	<0.001	0.70	0.58 0.85	<0.001
Sex						
Female	Ref			Ref		
Male	1.06	1.00 1.12	0.039	1.03	0.97 1.09	0.384
Race			<0.001			0.026
Black	Ref			Ref		
White	0.95	0.88 1.02	0.176	0.89	0.81 0.97	0.008
Other	0.85	0.78 0.93	<0.001	0.93	0.84 1.09	0.135
Surgery type			<0.001			0.001
Partial gastrectomy	Ref			Ref		
Near total/total gastrctomy	1.70	1.57 1.82	<0.001	1.13	1.04 1.24	0.004
Gastrctomy NOS	1.60	1.25 2.03	<0.001	1.17	0.89 1.54	0.273
Combined resection	2.02	1.85 2.20	<0.001	1.18	1.07 1.31	0.001
Tumor size			<0.001			<0.001
≤45mm	Ref			Ref		
>45mm	3.06	2.89 3.25	<0.001	1.43	1.34 1.54	<0.001
Unknown	1.23	1.13 1.33	<0.001	1.05	0.95 1.16	0.308
Histological type						
Intestinal	Ref			Ref		
Diffuse	1.74	1.56 1.93	<0.001	1.26	1.11 1.42	<0.001
T stage			<0.001			<0.001
T1	Ref			Ref		
T2	3.40	3.06 3.76	<0.001	3.20	2.88 3.56	<0.001
T3	10.32	9.48 11.25	<0.001	8.83	8.10 9.66	<0.001
T4	18.30	16.67 20.10	<0.001	14.89	13.48 16.44	<0.001
Number of ELNs						
≤15	Ref			Ref		
>15	1.89	1.78 2.00	<0.001	1.67	1.57 1.79	<0.001

Abbreviations: NOS, not otherwise specified; Ref, reference; CI, confidence interval

Table S2. Uni- and multivariate binary logistic regression analysis for LNM in T1 patients

Parameter	Univariate Analysis				Multivariate Analysis						
	Odds Ratio		95% CI		P	Odds Ratio		95% CI		P	
Age										0.016	0.031
20-39	Ref				Ref						
40-49	0.81	0.50	1.32	0.398	0.74	0.45	1.23	0.247			
50-59	0.76	0.48	1.19	0.230	0.77	0.48	1.22	0.259			
60-69	0.73	0.47	1.14	0.165	0.72	0.46	1.13	0.153			
70-79	0.59	0.38	0.92	0.019	0.59	0.38	0.93	0.022			
80+	0.60	0.38	0.94	0.026	0.59	0.37	0.93	0.023			
Sex											
Female	Ref				Ref						
Male	0.87	0.75	1.00	0.053							
Race										0.034	0.018
Black	Ref				Ref						
White	0.89	0.73	1.09	0.264	0.91	0.74	1.13	0.397			
Other	0.76	0.61	0.95	0.014	0.75	0.60	0.94	0.012			
Surgery type										0.095	
Partial gastrectomy	Ref										
Near total/total gastrctomy	1.12	0.91	1.39	0.285							
Gastrctomy NOS	1.98	1.05	3.76	0.036							
Combined resection	1.18	0.90	1.56	0.239							
Tumor size										<0.001	<0.001
≤45mm	Ref				Ref						
>45mm	2.81	2.32	3.42	<0.001	2.74	2.25	3.34	<0.001			
Unknown	0.69	0.56	0.85	<0.001	0.71	0.57	0.87	0.001			
Histological type											
Intestinal	Ref				Ref						
Diffuse	1.44	1.08	1.94	0.015	1.29	0.95	1.76	0.101			
Number of ELNs											
≤15	Ref				Ref						
>15	1.64	1.42	1.90	<0.001	1.50	1.29	1.75	<0.001			

Abbreviations: NOS, not otherwise specified; Ref, reference; CI, confidence interval

Table S3. Uni- and multivariate binary logistic regression analysis for LNM in T2 patients

Parameter	Univariate Analysis			Multivariate Analysis		
	Odds Ratio	95%CI	P	Odds Ratio	95%CI	P
Age			0.016			0.100
20-39	Ref			Ref		
40-49	0.83	0.49 1.41	0.499	0.83	0.49 1.41	0.488
50-59	0.88	0.54 1.44	0.617	0.85	0.52 1.40	0.524
60-69	0.66	0.41 1.06	0.088	0.66	0.41 1.07	0.093
70-79	0.62	0.39 1.00	0.049	0.65	0.40 1.04	0.073
80+	0.63	0.39 1.01	0.054	0.67	0.41 1.08	0.098
Sex						
Female	Ref					
Male	0.89	0.76 1.04	0.131			
Race			0.087			
Black	Ref					
White	0.86	0.70 1.07	0.179			
Other	0.77	0.60 0.97	0.028			
Surgery type			0.663			
Partial gastrectomy	Ref					
Near total/total gastrctomy	1.00	0.80 1.24	0.972			
Gastrctomy NOS	1.32	0.62 2.83	0.470			
Combined resection	1.16	0.88 1.52	0.299			
Tumor size			0.001			0.004
≤45mm	Ref			Ref		
>45mm	1.36	1.15 1.61	<0.001	1.32	1.11 1.57	0.001
Unknown	0.96	0.73 1.26	0.769	0.97	0.74 1.27	0.815
Histological type						
Intestinal	Ref					
Diffuse	1.14	0.81 1.59	0.449			
Number of ELNs						
≤15	Ref			Ref		
>15	1.69	1.44 1.98	<0.001	1.62	1.38 1.90	<0.001

Abbreviations: NOS, not otherwise specified; Ref, reference; CI, confidence interval

Table S4. Uni- and multivariate binary logistic regression analysis for LNM in T3 patients

Parameter	Univariate Analysis			Multivariate Analysis				
	Odds Ratio	95% CI		P	Odds Ratio	95% CI		P
Age				0.023				0.138
20-39	Ref				Ref			
40-49	0.99	0.72	1.38	0.961	1.00	0.72	1.40	0.984
50-59	1.05	0.77	1.43	0.757	1.04	0.76	1.42	0.798
60-69	0.96	0.72	1.30	0.808	1.01	0.75	1.36	0.960
70-79	0.77	0.57	1.02	0.072	0.83	0.62	1.12	0.217
80+	0.61	0.45	0.82	0.001	0.71	0.52	0.96	0.025
Sex								
Female	Ref				Ref			
Male	1.14	1.03	1.25	0.010	1.11	1.00	1.22	0.043
Race				<0.001				<0.001
Black	Ref				Ref			
White	0.83	0.72	0.95	0.008	0.87	0.76	1.00	0.053
Other	1.15	0.98	1.36	0.082	1.14	0.96	1.34	0.128
Surgery type				<0.001				<0.001
Partial gastrectomy	Ref				Ref			
Near total/total gastrctomy	1.42	1.25	1.62	<0.001	1.22	1.07	1.39	0.003
Gastrctomy NOS	1.17	0.79	1.74	0.423	1.12	0.75	1.67	0.574
Combined resection	1.55	1.32	1.83	<0.001	1.39	1.18	1.65	<0.001
Tumor size				<0.001				<0.001
≤45mm	Ref				Ref			
>45mm	1.43	1.29	1.58	<0.001	1.35	1.22	1.50	<0.001
Unknown	1.24	1.05	1.47	0.011	1.24	1.04	1.47	0.016
Histological type								
Intestinal	Ref				Ref			
Diffuse	1.39	1.15	1.70	0.001	1.24	1.02	1.52	0.034
Number of ELNs								
≤15	Ref				Ref			
>15	1.67	1.51	1.85	<0.001	1.49	1.34	1.65	<0.001

Abbreviations: NOS, not otherwise specified; Ref, reference; CI, confidence interval

Table S5. Uni- and multivariate binary logistic regression analysis for LNM in T4 patients

Parameter	Univariate Analysis				Multivariate Analysis			
	Odds Ratio	95% CI		P	Odds Ratio	95% CI		P
Age				0.001				0.376
20-39	Ref				Ref			
40-49	1.00	0.69	1.47	0.988	1.00	0.68	1.47	0.991
50-59	0.88	0.62	1.25	0.469	0.89	0.63	1.27	0.523
60-69	0.89	0.64	1.25	0.505	0.94	0.67	1.32	0.710
70-79	0.76	0.55	1.06	0.105	0.85	0.61	1.19	0.353
80+	0.65	0.46	0.91	0.013	0.79	0.56	1.12	0.184
Sex								
Female	Ref				Ref			
Male	1.13	1.00	1.28	0.051				
Race				0.028				0.105
Black	Ref				Ref			
White	0.88	0.73	1.05	0.159	0.85	0.71	1.03	0.093
Other	1.06	0.87	1.31	0.559	0.97	0.79	1.20	0.778
Surgery type				<0.001				0.087
Partial gastrectomy	Ref				Ref			
Near total/total gastrctomy	1.53	1.30	1.81	<0.001	1.24	1.04	1.47	0.016
Gastrctomy NOS	1.01	0.62	1.66	0.968	0.85	0.51	1.41	0.531
Combined resection	1.29	1.10	1.52	0.002	1.08	0.91	1.27	0.373
Tumor size				<0.001				<0.001
≤45mm	Ref				Ref			
>45mm	1.49	1.30	1.71	<0.001	1.40	1.22	1.61	<0.001
Unknown	1.34	1.10	1.64		1.31	1.06	1.61	0.011
Histological type								
Intestinal	Ref				Ref			
Diffuse	1.51	1.22	1.88	<0.001	1.32	1.05	1.64	0.015
Number of ELNs								
≤15	Ref				Ref			
>15	2.35	2.05	2.69	<0.001	2.20	1.91	2.52	<0.001

Abbreviations: NOS, not otherwise specified; Ref, reference; CI, confidence interval

Table S6. Uni- and multivariate binary logistic regression analysis for LNM in all patients with ELNs > 15

Parameter	Univariate Analysis			Multivariate Analysis		
	Odds Ratio	95%CI	P	Odds Ratio	95%CI	P
Age			0.001			0.063
20-39	Ref			Ref		
40-49	0.73	0.55 0.98	0.037	0.82	0.59 1.14	0.236
50-59	0.75	0.57 0.98	0.036	0.88	0.64 1.20	0.407
60-69	0.67	0.52 0.88	0.004	0.84	0.62 1.14	0.269
70-79	0.64	0.49 0.84	0.001	0.79	0.58 1.06	0.117
80+	0.59	0.45 0.78	<0.001	0.68	0.50 0.94	0.018
Sex						
Female	Ref					
Male	1.04	0.95 1.14	0.450			
Race			0.001			0.580
Black	Ref			Ref		
White	1.04	0.91 1.19	0.550	0.95	0.82 1.12	0.583
Other	0.86	0.76 1.00	0.045	1.02	0.86 1.21	0.842
Surgery type			<0.001			0.185
Partial gastrectomy	Ref			Ref		
Near total/total gastrectomy	1.49	1.33 1.67	<0.001	1.08	0.95 1.23	0.266
Gastrectomy NOS	1.39	0.91 2.11	0.124	0.89	0.56 1.43	0.636
Combined resection	1.99	1.73 2.30	<0.001	1.18	1.00 1.39	0.046
Tumor size			<0.001			<0.001
≤45mm	Ref			Ref		
>45mm	2.93	2.65 3.24	<0.001	1.36	1.20 1.53	<0.001
Unknown	1.49	1.27 1.74	<0.001	1.03	0.86 1.24	0.756
Histological type						
Intestinal	Ref			Ref		
Diffuse	1.56	1.32 1.84	<0.001	1.32	1.08 1.60	0.006
T stage			<0.001			<0.001
T1	Ref			Ref		
T2	3.43	2.89 4.07	<0.001	3.27	2.74 3.90	<0.001
T3	10.23	8.87 11.80	<0.001	9.05	7.79 10.51	<0.001
T4	23.00	19.52 27.09	<0.001	19.40	16.31 23.10	<0.001

Abbreviations: NOS, not otherwise specified; Ref, reference; CI, confidence interval