

Table Appendix 1. ICD-9-CM diagnosis codes for comorbidities

Diagnosis	ICD-9-CM diagnosis codes
Hypertension	401.xx-405.xx
Diabetes mellitus	250.xx
Coronary artery disease	410.xx-414.xx
Heart failure	428.xx
Hyperlipidemia	272.xx
Cerebrovascular disease	
Ischemic	434.xx-437.1
Hemorrhagic	430.xx-432.xx
Chronic kidney disease	403.xx, 404.xx, 582.xx, and 585
Chronic obstructive lung disease	491.xx-492.xx, 494.xx, 496.xx

Supplementary Table 1 Comparison of complications between non-alcoholic liver cirrhosis with coronary artery disease and non-alcoholic liver cirrhosis without coronary artery disease group *n* (%)

Variable	Non-alcoholic LC with CAD	Non-alcoholic LC without CAD	<i>P</i> value
	<i>n</i> = 170	<i>n</i> = 3239	
Complication			0.277
Yes	50 (29.4)	1083 (33.4)	
No	120 (70.6)	2156 (66.6)	
Esophageal varices	14 (8.2)	267 (8.2)	0.997
Esophageal varices with bleeding	14 (8.2)	337 (10.4)	0.364
Ascites or Peritonitis	30 (17.6)	683 (21.1)	0.282
Hepatic encephalopathy	14 (8.2)	362 (11.2)	0.233

LC: Liver cirrhosis; CAD: Coronary artery disease.

Supplementary Table 2 Hazard ratios of mortality in non-alcoholic liver cirrhosis patients with complications using cox regression model

Variable	Unadjusted hazard ratio			Adjusted hazard ratio ¹		
	Risk ratio	95%CI	P-value	Risk ratio	95%CI	P value
Sex						
Male	1.20	1.07-1.35	0.002	1.47	1.30-1.65	< 0.001
Female (reference)						
Age						
40-49 (reference)						
50-59	1.04	0.85-1.27	0.688	1.10	0.90-1.34	0.358
60-69	1.29	1.06-1.57	0.013	1.30	1.06-1.59	0.011
> 69	2.51	2.10-3.00	< 0.001	2.44	2.04-2.92	< 0.001
Esophageal varices						
No (reference)						
Yes	1.46	1.23-1.73	< 0.001	0.74	0.61-0.90	0.002
Esophageal varices with bleeding						
No (reference)						
Yes	2.17	1.88-2.51	< 0.001	1.63	1.38-1.94	< 0.001
Ascites or Peritonitis						

No (reference)						
Yes	3.26	2.91-3.66	< 0.001	2.34	2.06-2.65	<0.001
Hepatic encephalopathy						
No (reference)						
Yes	3.61	3.16-4.12	< 0.001	2.26	1.95-2.61	< 0.001
Complication						
No (reference)						
Yes	3.69	3.30-4.13	<0.001	N.A.	N.A.	N.A.

¹Adjustments were made for sex, age, esophageal varices, esophageal varices with bleeding, ascites or peritonitis, and hepatic encephalopathy

Supplementary Table 3 Cumulative hazard ratios of comorbidities numbers in non-alcoholic liver cirrhosis patients

Numbers	Cumulative hazard ratio			
	Case No.	Risk ratio	95%CI	<i>P</i> value
0	1446			
1	1166	1.35	1.19-1.55	< 0.001
2	549	1.72	1.47-2.00	< 0.001
3	186	1.95	1.57-2.43	< 0.001
≥ 4	62	1.64	1.15-2.36	0.007

Supplementary Table 4 Cumulative hazard ratios of complication numbers in non-alcoholic liver cirrhosis patients

Numbers	Cumulative hazard ratio			
	Case No.	Risk ratio	95%CI	<i>P</i> -value
0	2352			
1	728	3.56	3.14-4.03	< 0.001
2	275	4.63	3.94-5.44	< 0.001
≥ 3	54	5.15	3.82-6.94	< 0.001

