Outcome codes (and exclusion before baseline):

Diagnosis	ICD-10 (1997-)	ICD-9 (1987-1996)	ICD-8 (1969-1986)
Severe liver disease			
(D) Esophageal varices, bleeding**	185.0, 198.3	456.0, 456.20	456.0
(K) Oesophageal varices, non- bleeding	185.9, 198.2	456.1, 456.21	456.0
(D) Hepatorenal syndrome**	K76.7	572.4	
(A) Liver failure, chronic	K72.1	572.8	573
(K) Liver cirrhosis*	K74.6	571.5	571.9
(K) Liver cirrhosis due to alcohol*	K70.3	571.2	571.0
(D) Liver encephalopathy**		572.2	573.02
(A) Liver failure not otherwise defined	K72.9		
(K) Portal hypertension	K76.6	572.3	571.9
(C) Hepatocellular carcinoma***	C22.0	155.0	155.01
(A) Liver transplantation status	Z94.4	V42	
Procedure codes			
Liver transplantation	JJC00, JJC10, JJC20, DJ005, DJ006, JJC30, JJC40	5200	5200

Additional exclusion criteria before baseline:

Liver disease	ICD-10 (1997-)	ICD-9 (1987-1996)	ICD-8 (1969-1986)
AAT deficiency	E88.0A, E88.0B	277.6	
Alcohol-related liver disease*	K70	571.0, 571.1, 571.2, 571.3	571.00, 571.01
Autoimmune hepatitis	K75.4		
Budd-Chiari syndrome	182.0, K76.5	453.0	
Hemochromatosis PBC	E83.1 K74.3, K74.5	275.0 571.6	273.20
PSC Wilson	(K50 or K51) + K83.0 E83.0B	(555 or 556) + 576.1 275.1	563 + 575.05 273.30
Viral hepatitis Alcohol/drug use disorders	B15, B16, B17, B18, B19	070, 571.4	070, 999.20
Alcohol-related	E24.4, F04.9, F10, G31.2,	255, 294.0, 291, 303,	258, 291.1, 299,
diagnoses	G62.1, G72.1, I42.6, K29.2, K85.2, K86.0, O35.4, X65, Y15, Y91	305.0, 357.5, 359.4, 425.5, 535.3, 577, 655.4	
Other drug use disorders	F11, F12, F13, F14, F15, F16, F17, F18, F19	292, 305	

Data should be structured using the names:

id time event age sex Go	T ALT AST FIB4
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Where

- **time** is the follow-up time in years.
- event is 1 for liver disease outcome, 2 for death from other causes, and 0 for censored.
- age is the age in years at the start of follow-up
- **sex** is 1 for female and 0 for male.
- **GGT**, **ALT**, and **AST** are in mikrokat/L (= "U/L" / 60)