

Supplementary Table 1. Univariate predictors of incident cirrhosis¹, adjusted for baseline FIB-4 score

Variable†	HR	95% CI	p-value
Age, per 10 year increase	1.03	0.95,1.11	0.48
Race			
• White (comparator)	1		
• Black	1.13	1,1.29	0.05
• Hispanic	1.07	0.87,1.31	0.52
• Other	0.97	0.82,1.14	0.68
Male sex	1.28	0.96,1.72	0.1
HCV RNA, per log ₁₀ increase	1.09	1.06,1.12	<.0001
HCV genotype			
• 1a	1		
• 1b	0.9	0.73,1.1	0.28
• 1ns	0.89	0.67,1.17	0.41
• 2	0.75	0.61,0.93	0.01
• 3	0.92	0.74,1.16	0.49
• 4-6	0.86	0.39,1.94	0.72
• Unknown	0.67	0.59,0.76	<.0001
Body mass index, per unit increase	1	0.99,1.01	0.59
Dyslipidemia, baseline	1.07	0.97,1.18	0.19
Diabetes	1.19	1.05,1.34	0.01
NAFLD	1.16	0.96,1.39	0.12
Alcohol abuse or dependence	1.32	1.2,1.46	<.0001
Smoking history (any vs. none)	1.4	1.16,1.7	0.0006
Daily caffeine intake (any vs. none)	1.84	1.22,2.78	0.004
Prior HCV treatment			
• IFN/RBV only	1		
• IFN/RBV/BOC	0.94	0.76,1.15	0.53
• IFN/RBV/TPV	1.44	0.95,2.2	0.09
Treatment naïve (vs. experienced)	0.87	0.66,1.15	0.34
Attainment of SVR (vs. no SVR)	0.49	0.44,0.54	<.0001
Medication use³			
Statins	0.66	0.6,0.73	<.0001
Angiotensin converting enzyme (ACE) inhibitors	0.99	0.89,1.09	0.78
Metformin	1.04	0.93,1.16	0.53
Other lipid-lowering agent ⁴	0.83	0.7,0.99	0.04
Non-steroidal anti-inflammatory (NSAID)	1.12	0.95,1.32	0.19

†Variables were included if present at any time during study period, unless noted otherwise

¹Cirrhosis defined as FIB-4 score > 3.5

²NAFLD, Non-alcoholic fatty liver disease, as defined by ICD-9 code

³Medication use included use of any listed medications, at any time during study period, vs. non-use

⁴ Other lipid-lowering agents include: fibrates (clofibrate, fenofibrate, gemfibrozil), niacin, ezetimibe, bile acid sequestrants (cholestyramine, colesevelam, colestipol)

Supplementary Table 2A and 2B

Hazard Ratio (HR) of statin use and reduction of (A) fibrosis progression, and (B) hepatocellular carcinoma (HCC), after exclusion of subjects who attained SVR

2A.

Model	Statin use ¹					
	28 to 89 cDDD ²		90 to 180 cDDD ²		>180 cDDD ²	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
Adjusted HR [†]	0.82 (0.41,1.64)	0.58	0.48 (0.24,0.96)	0.04	0.56 (0.38,0.83)	0.004

[†]Adjusted model created after exclusion of subjects who attained SVR. Model adjusted for age, sex, race, smoking history, alcohol abuse history, caffeine intake, BMI, Diabetes, baseline FIB-4 score, Metformin use, Angiotensin converting enzyme inhibitor use, other lipid-lowering agent use, NSAID use and prior completed HCV treatment

¹Statin use defined as ≥ 28 cumulative defined daily doses (cDDD²) of statin medications, over study observation period

²cDDD², cumulative defined daily doses

2B.

Variable, N	Fibrosis progression ¹ N (%)	Unadjusted HR			Adjusted HR*		
		β coefficient	HR (95% CI)	P-value	β coefficient	HR (95% CI)	P-value
Statin use ¹ , 1870							
cDDD 28-89, 257	52 (20.23%)	-0.48	0.62(0.47,0.82)	0.0009	-0.34	0.71(0.54,0.95)	0.02
cDDD 90-180, 364	79(21.7%)	-0.40	0.67(0.53,0.85)	0.0008	-0.28	0.76(0.6,0.96)	0.02
cDDD >180, 1249	212 (16.97%)	-0.71	0.49(0.42,0.57)	<.0001	-0.68	0.51(0.43,0.6)	<.0001
No Statin use; 2608	770 (29.52%)		1			1	

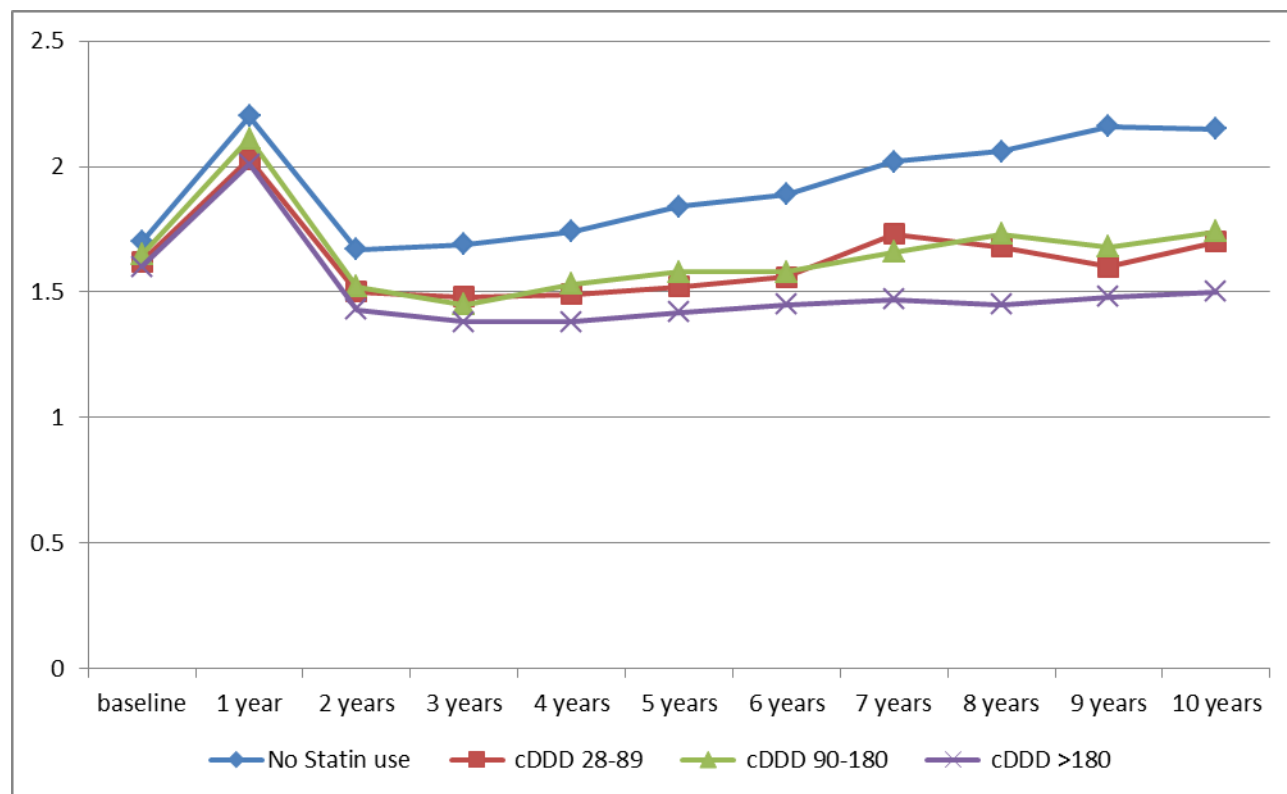
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¹Statin use defined as ≥ 28 cumulative defined daily doses (cDDD²) of statin medications, over study observation period

²cDDD², cumulative defined daily doses

Supplementary Figure 1.

Mean FIB-4 scores of included subjects (n=9135) over time, according to statin cumulative defined daily dose (cDDD)†



†Using ANOVA test, all p-values for each of the four cDDD groups are <0.0001, at each time point during the 13-year study observation period