Supplementary Table 1 Number of serum total cholesterol measurements per patient-year

Group	Patient-year observations, *n*	Mean	SD	Median	Minimum	Maximum
Non-relapse	1507	2.47	1.54	2	1	18
Relapse	652	2.58	1.73	2	1	12

In a generalized estimating equation model evaluating measurement frequency over time, there was no evidence of a difference by relapse status ($P = 0.383$).

Supplementary Table 2 Association between maximal serum total cholesterol and subsequent relapse risk at each landmark time point, stratified by statin exposure

Land mark	Maximal total cholesterol level	Statin exposure	N at risk [1]	Relapses after landmark [2]	Univariable HR (95% CI)	Crude *P* value	Adjusted HR (95% CI)	Adjusted *P* value
1-year	≥ 4.53 mmol/L	Overall	398	150	1.73 (1.15–2.60)	0.008	1.88 (1.13–3.13)	0.015
		Statin never-use	347	130	1.90 (1.20–3.01)	0.006	1.89 (1.07–3.32)	0.027
		Statin ever-use	51	20	1.21 (0.48–3.03)	0.688	2.05 (0.56–7.51)	0.280
2-year	≥ 4.53 mmol/L	Overall	343	104	1.88 (1.07-3.30)	0.028	2.12 (1.08–4.14)	0.029
		Statin never-use	298	90	1.86 (0.99–3.49)	0.055	1.69 (0.81–3.54)	0.166
		Statin ever-use	45	14	2.17 (0.61–7.80)	0.233	10.66 (1.91–59.43)	0.007
3-year	≥ 5.56 mmol/L	Overall	295	60	1.92 (1.16-3.18)	0.012	2.42 (1.25–4.71)	0.009

Statin never-use	257	52	1.82 (1.06–3.14)	0.031	2.17 (1.06–4.43)	0.034	
Statin ever-use	38	8	2.68 (0.64–11.23)	0.177	10.72 (1.18–97.64)	0.035	

[1]N at risk indicates the number of patients included at each landmark.

[2]Relapses after landmark indicates events observed beyond the landmark time point. Landmark Cox proportional hazards models were constructed at each time point among patients who remained relapse-free. Analyses were stratified by statin exposure (never-use vs ever-use). Multivariable models were adjusted for age, sex, baseline serum total cholesterol level, and infliximab use. Multivariable models in the overall population additionally adjusted for statin use.

HR: Hazard ratio.

Supplementary Table 3 Multivariable continuous landmark Cox analyses of maximal and mean serum total cholesterol levels and subsequent clinical relapse

parameter	**Mean total cholesterol**				**Maximal total cholesterol**			
	***P* value**	**aHR**	**95%CI lower**	**95%CI upper**	***P* value**	**aHR**	**95%CI lower**	**95%CI upper**
1-year (continuous)	0.591	1.15	0.694	1.9	0.441	1.15	0.806	1.64
2-year (continuous)	0.136	1.52	0.876	2.637	0.423	1.17	0.795	1.716
3-year (continuous)	0.011	2.36	1.218	4.578	0.069	1.42	0.973	2.076

Hazard ratios are presented per 1 mmol/L increase in maximal or mean serum total cholesterol before each landmark. Multivariable Cox models were adjusted for age, sex, baseline serum total cholesterol, infliximab use, statin use, and MES 0/1. aHR: Adjusted hazard ratio.