

**Table S1.** The prevalence, ratios, importance (Imp.) and descriptions of all predictors amongst the different patient subsets. (Note: Importance of '--' indicates the variable was not used the model splits.)

Predictor	Predictor description	All (n=3564)					No HCV infection history (n=3215)				HCV infection history (n=349)			
		Total	New HCV infection (n=487)	No new HCV infection (n=3077)	Imp.	Ratio (0.16)	New HCV infection (n=244)	No new HCV infection (n=2970)	Imp.	Ratio (0.08)	New HCV infection (n=243)	No new HCV infection (n=107)	Imp.	Ratio (2.27)
F11	Opioid related disorders	66	52	14	12.5	3.71	15	11	11.8	1.36	37	3	--	12.33
N18.6	End stage renal disease	105	33	72	5.3	0.46	24	49	6.2	0.49	9	23	1.6	0.39
Text_substance	Patient with a history of substance use or abuse	327	146	181	2.854	0.81	44	146	4.492	0.30	102	35	0.561	2.91
Text_piercing	Presence of a piercing on patient	103	13	90	0.492	0.14	6	87	2.789	0.07	7	3	0.052	2.33
F14	Cocaine related disorders	16	11	5	2.6	2.20	2	3	1.975	0.67	9	2	0.6	4.50
Z11.3	Encounter for screening for infections with a predominantly sexual mode of transmission	454	29	425	1.3	0.07	7	420	1.6	0.02	22	5	1.1	4.40
Meds_opioid	Patient prescribed opioid medication	467	120	347	2.295	0.35	42	323	1.455	0.13	78	24	0.13	3.25

[illegible]

A58	Granuloma inguinale	1	0	1	--	0.00	0	1	--	0.00	--	--	--	--
A60.1	Herpesviral infection of perianal skin and rectum	--	--	--	--	--	--	--	--	0.00	--	--	--	--
B00	Herpesviral infection, unspecified	58	9	49	--	0.18	3	48	--	0.06	6	1	--	6
B17.1	Acute hepatitis C without hepatic coma	21	15	6	--	2.50	--	--	--	--	15	6	--	2.50
B18.1	Chronic viral hepatitis B without delta-agent	4	1	3	--	0.33	--	--	--	--	1	3	--	0.33
B18.2	Chronic viral hepatitis C	120	82	38	28.8	2.16	--	--	--	--	82	38	1.937	2.16
B19.1	Unspecified viral hepatitis B without hepatic coma	11	1	10	--	0.10	--	--	--	--	1	10	--	0.1
B19.2	Unspecified viral hepatitis C without hepatic coma	277	197	80	201.6	2.46	--	--	--	--	197	80	1.417	2.46
B20	Human immunodeficiency virus [HIV] disease	71	22	49	0.5	0.45	7	40	--	0.18	15	9	0.3	1.67
F19.2	Other psychoactive substance dependence	4	4	0	--	0.00	2	0	--	0	2	0	--	0.00
K62.89	Other specified diseases of anus and rectum	21	6	15	--	0.40	1	15	--	0.07	5	0	--	0.00
K70	Alcoholic liver disease	11	5	6	--	0.83	0	4	--	0	5	2	--	2.50

K71	Toxic liver disease	--	--	--	--	--	--	--	--	--	--	--	--	--
K72	Hepatic failure, not elsewhere classified	11	7	4	--	1.75	1	3	--	0.33	6	1	--	6.00
K73	Chronic hepatitis, not elsewhere classified	4	2	2	--	1.00	--	--	--	--	2	2	--	1.00
K75	Other inflammatory liver diseases	13	5	8	--	0.63	1	6	--	0.17	4	2	--	2.00
K76	Other diseases of liver	93	15	78	2.8	0.19	0	64	--	0.00	15	14	3.5	1.07
K77	Liver disorders in diseases classified elsewhere	--	--	--	--	--	--	--	--	--	--	--	--	--
R74.01	Elevation of levels of liver transaminase levels	7	7	0	--	0.00	2	0	--	0.00	5	0	--	0.00
W46.0	Contact with hypodermic needle	1	0	1	--	0.00	0	1	--	0.00	--	--	--	--
Z01.812	Encounter for preprocedural laboratory examination	32	10	22	--	0.45	6	14	--	0.43	4	8	--	0.50
Z11.4	Encounter for screening for human immunodeficiency virus [HIV]	19	2	17	--	0.12	1	17	--	0.06	1	0	--	0.00
Z20.2	Contact with and (suspected) exposure to infections with a predominantly sexual mode of transmission	86	6	80	--	0.08	2	80	--	0.03	4	0	--	0.00

Z20.5	Contact with and (suspected) exposure to viral hepatitis	19	1	18	--	0.06	0	8	--	0.00	1	10	1.1	0.10
Z20.6	Contact with and (suspected) exposure to human immunodeficiency virus [HIV]	5	0	5	--	0.00	0	5	--	0.00	0	0	--	0.00
Z65.1	Imprisonment and other incarceration	--	--	--	--	--	--	--	--	--	--	--	--	--
Z71.5	Drug abuse counseling and surveillance	--	--	--	--	--	--	--	--	--	--	--	--	--
Z72.5	High risk sexual behavior	58	5	53	--	0.09	3	53	--	0.06	2	0	--	0.00
Z77.21	Contact with and (suspected) exposure to potentially hazardous body fluids	1	0	1	--	0.00	0	1	--	0.00	0	0	--	0
Z86.59	Personal history of other mental and behavioral disorders	26	5	21	--	0.24	2	20	--	0.10	3	1	--	3
Text_incarceration	Patient has been incarcerated	107	39	68	1.072	0.57	5	54	--	0.09	34	14	--	2.43
Text_tattoo	Presence of a tattoo on patient	92	14	78	0.836	0.18	5	74	--	0.07	9	4	0.863	2.25
Text_transfusion	Patient with a history of transfusions and solid organ transplants prior to 1992	622	132	490	1.015	0.27	39	433	--	0.09	93	57	2.26	1.63
Text_needlestick	Patient with history of needlestick injury	11	2	9	--	0.22	1	9	--	0.11	1	0	--	0