

De-Novo HCC Risk Post-SVR Study: Background

Author	Journal	Recurrence or occurrence?	Country, setting	Sample	Frequency of HCC occurrence/ recurrence	Control group
Reig et al	J Hepatol, 2016	Recurrence	4 referral hospitals, Spain	Treated with IFN- free regimen after successfully treated HCC, N=59	28% after median follow-up of 5.7 months	None
Conti et al	J Hepatol, 2016	Recurrence	Liver clinics in Bologna, Italy	Treated with IFN- free regimen after successfully treated HCC, N=58	29% by 24 weeks post-treatment follow-up	None
Conti et al	J Hepatol, 2016	Occurrence	Liver clinics in Bologna, Italy	Cirrhotic patients treated with IFN-free therapy, N=285	3.2% HCC occurrence by 24 weeks post treatment follow-up	None
Cardos o et al	J Hepatol, 2016	Occurrence	One clinic in Portugal	Cirrhotic patients achieving SVR via IFN-free therapy, N=54	7.4% after median 12 months follow-up	None

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De-Novo HCC Risk Post-SVR Study: Methods

- Retrospective cohort study using
 - Scottish HCV clinical database (downloads @ April 2016)
 - Subsequent medical chart review (carried out February-March 2017)
- Definition of study cohort
 - Inclusion criteria
 - SVR attainment in 1997-2016
 - Liver cirrhosis at time of starting treatment
 - Exclusion criteria
 - Diagnosis of HCC prior to treatment
 - HBV/HIV co-infection
 - Attendance at a clinic with incomplete database or otherwise not able to participate in medical chart review

- Primary outcome event: first time diagnosis of HCC by cross-sectional imaging or biopsy
- Wide range of baseline patient characteristics extracted:
 - Age; gender ethnicity; postcode deprivation score; Child Pugh score; thrombocytopenia; alphafetoprotein; diabetes; alcohol history; smoking history; drug use history; prior genotype; clinic attended; number of prior treatment failures
- Survival analysis approach adopted
 - Start time = commencement of treatment
 - Stop time = earlier of: HCC occurrence; death; or reaching 31 Jan 2017
 - Used Cox regression to assess univariate and multivariate association between regimen (IFN-free vs. IFN-containing) and HCC

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De-Novo HCC Risk Post-SVR Study: Results - Baseline Description of the Cohort (N=857)

Characteristic		% of cohort (N=857)
Demographics	Average age White ethnicity Male gender	Mean: 49 years (sd:8) 92% 75%
Health Behaviours	History or heavy alcohol use Current tobacco smoker History of intravenous drug use	44% 73% 70%
Clinical	Thrombocytopenia (<100/10 ⁹ /L) Child Pugh B/C Diabetes	28% 15% 9%
Treatment	Treatment experienced IFN-free regimen	35% 32%

De-Novo HCC Risk Post-SVR Study: IFN-Containing Patients vs. IFN-free Patients

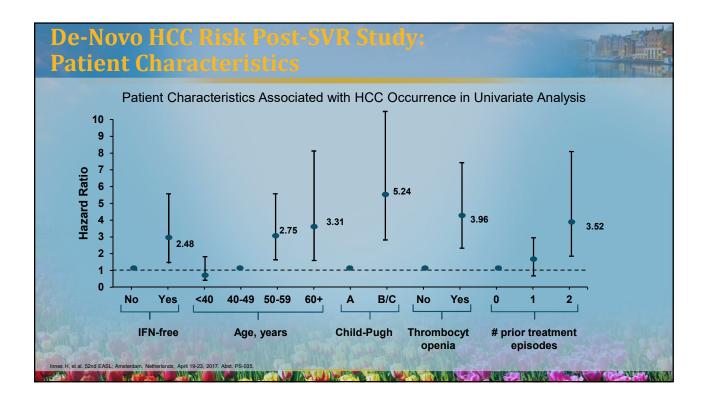
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Characteristic		IFN-containing (N=585)	IFN-free (N=272)	P-value
Mean age		48.1 years	52.1 years	<0.001
Thrombocytopenic (<100 per 10 ⁹ /L)		22%	39%	<0.001
Child Pugh B or C		9%	30%	<0.001
Number of prior failed treatment episodes	0	73%	48%	
	1	21%	35%	<0.001
	≥2	7%	17%	

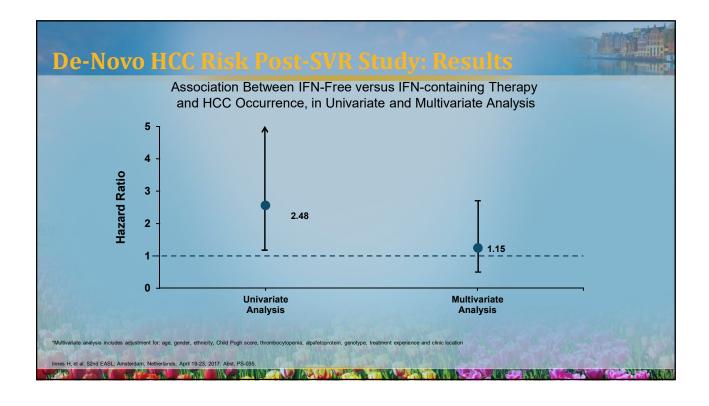
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De-Novo HCC Risk Post-SVR Study: Follow-up Time and Outcomes Events

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		IFN-containing (N=585)	IFN-free (N=272)		
Follow-up, person years	Total Median per patient (IQR)	2697 3.5 (2.2-5.6)	475 1.7 (1.4-2.0)		
	Total #	34	12		
	# occurring <24 weeks post-treatment	6	5		
Outcome events (i.e. HCC occurrence)	# occurring ≥24 weeks post-treatment	28	7		
(i.e. 1100 occurrence)	Median time to even (min-max range)	2.5 yrs (0.3-8.5)	0.9 yrs (0.5-2.0)		
	Crude rate, per 100 persons years	1.26	2.52		
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De-Novo HCC Risk Post-SVR Study: Conclusions

- There is no evidence that IFN-free therapy increases the risk of HCC occurrence in patients achieving an SVR
- Baseline characteristics of patients treated with IFN-free regimens differ from those treated with IFN-containing regimens
- Multivariate analysis demonstrated that the risk of HCC occurrence was equivalent between these two groups of patients