



Setting	20 clinical centers in Spain
Patients	HIV/HCV+ patients who started IF-RB between Jan 2000 and Jul 2007
Data retrieval	Data were entered into a common database at each institution by means of an ad hoc online application
Follow-up (every 6 mo)	 Survival Liver decompensation HIV-related diseases ART and lab results (CD4+ cells, HIV-VL, HCV-RNA) Liver biopsies, if any In cirrhotic patients: alpha-fetoprotein (AFP) and ultrasound scan
Study duration	From the date IF-RB was stopped to death or last FU visit Administrative censoring date: 31 April, 2009





Characteristic	Patients (N=1428)
Male sex – n (%)	1047 (74)
Age – yr, median (IQR)	42 (38-45)
Prior injection drug use – n (%)	1142 (81)
CDC category C – n (%)	310 (22)
CD4 cells nadir-n/mm ³ – median (IQR)	216 (116-333)
CD4 cells baseline-n/mm ³ –median (IQR)	528 (384-719)
HIV RNA 50 copies/mL baseline – n (%)	848 (62)
HCV genotype 1-4 – n (%)	858 (60)
HCV RNA ≥ 500,000 IU/mL	931 (65)
Advanced fibrosis (F>3 or APRI >2)	429 (30)
Alcohol intake >50 g/d – n (%)	69 (5)
HAART during HCV treatment – n (%)	1205 (84)

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Response					
Treatment Regimen n (%)		Trea	Treatment Response		
Non-peg IF + RB	194 (14)) SVR			520 (36)
Peg IF 2b + RB	549 (38)) ETR			211 (15)
Peg IF 2a + RB	685 (48)) NR			697 (49)
Factors independently associated with SVR					
Variable		OR	95% CI	P	
Type of IF Non-peg IF Peg IF 2b Peg IF 2a		Ref 1.72 2.13	- 1.05 - 2.82 1.30 - 3.50	.031 .003	
CDC category A	VВ	1.71	1.13 - 2.60	.012	
Nadir CD4+cell	count	1.00	1.00 - 1.00	.125	
HCV genotype 2	2-3	4.70	3.39 - 6.52	.000	
HCV-RNA < 500	0 k IU/mL	1.95	1.40 - 2.69	.000	
METAVIR F0-F2	2	2.25	1.61 - 3.13	.000	
Alcoholintake <	50 g/d	2.46	1.03 - 5.88	.043	7

Frequency of Events During FU Stratified According to Response to IF-RB

	NR (n=697)	ETR (n=211)	SVR (n=520)
Follow-up – mo, median (IQR)	49.1 (31.5 - 66.2)	46.8 (28.5 - 64.3)	46.6 (29.4 - 64.7)*
Lost to follow-up – n (%)	119 (17.1)	22 (10.4)	50 (9.6)*
Deaths – n (%)	59 (8.5)	4 (1.9)*	6 (1.2)*
Liver-related (LR) – n (%)	35 (5)	1 (0.5)*	2 (0.4) *
AIDS-related – n (%)	3 (0.4)	0 (0)	0 (0)
Other causes – n (%)	21 (3)	3 (1.4)	4 (0.8)*
AIDS-related other causes – n (%)	24 (3.4)	3 (1.4)	4 (0.8)*
New CDC category C	21 (3.1)	9 (4.3)	3 (0.6)*†
New CDC category C/Non-LR deaths	41 (6)	11 (5.2)	7 (1.4)*†
Liver decompensation – n (%)	75 (11)	9 (4.3)*	2 (0.4)*†
Hepatocellular carcinoma – n (%)	15 (2.2)	1 (0.5)	0 (0)
Liver transplantation – n (%)	14 (2.1)	2 (1)	0 (0)
* Statistically significant differences group.	s (P <.05) with the		fipse

	Rate/100 person-years (95% CI)			
Event	NR (n=697)	ETR (n=211)	SVR (n=520)	
Lost to follow-up	4.19 (3.44 - 4.95)	2.73 (1.59 - 3.87)	2.61 (1.89 - 3.34)*	
Deaths – n (%)	2.06 (1.54 - 2.59)	0.49 (0.01 - 0.97) *	0.31 (0.06 - 0.56)*	
Liver-related (LR)	1.22 (0.82 - 1.63)	0.12 (0 - 0.36)*	0.10 (0 - 0.25)*	
AIDS-related	0.10 (0 - 0.22)	0 (0 - 0)	0 (0 - 0)	
Other causes	0.73 (0.42 - 1.05)	0.37 (0 - 0.78)	0.21 (0 - 0.41)*	
AIDS-related/other causes	0.84 (0.5 - 1.17)	0.37 (0 - 0.78)	0.21 (0 - 0.41)*	
New CDC category C	0.74 (0.42 - 1.06)	1.11 (0.39 - 1.84)	0.15 (0 - 0.33)*†	
New CDC cat C/Non-LR deaths	1.45 (1.01 - 1.89)	1.36 (0.56 - 2.16)	0.36 (0.09 - 0.63) *	
Liver decompensation	2.73 (2.11 - 3.35)	1.12 (0.39 - 1.85)*	0.10 (0 - 0.25) * †	
Hepatocellular carcinoma	0.53 (0.26 - 0.79)	0.12 (0 - 0.36)	0 (0 - 0)*	
Liver transplantation	0.49 (0.23 - 0.75)	0.24 (0 - 0.58)	0 (0 - 0) * †	









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Abstract

Background: We showed that a sustained viral response (SVR) after therapy with interferonribavirin (IF-RB) reduces liver-related (LR) complications and mortality in HIV/HCV-coinfected patients. Here, we assess the impact of end-of-treatment response (ETR) but not SVR on mortality and LR events.

Methods: We analyzed the GESIDA 3603 Cohort (HIV/HCV-coinfected patients treated with IF-RB in 19 centers in Spain). Response to IF-RB was categorized as SVR, ETR (without SVR), and no response (NR). The study started when IF-RB was stopped and ended at death or the last follow-up visit.

Results: The table shows the frequency of events stratified according to response to treatment in 1428 patients.

	NR (697)	ETR (211)	SVR (520)		
Follow-up mo, median (IQR)	49.1 (31.5-66.2)	46.8 (28.5-64.3)	46.6 (29.4-64.7) *†		
Liver-related death, n (%)	35 (5.0)	1 (0.5) *	2 (0.4) *		
Liver decompensation, n (%)	75 (11.0)	9 (4.3) *	2 (0.4) *†		

* P<.05 with respect to NR. †P<.05 with respect to ETR

We performed a Cox regression analysis adjusted for age, sex, risk group, CDC category, nadir CD4+, HCV genotype, HCV RNA, and fibrosis stage. When we took NR as the reference, the adjusted HR (95% CI) of LR events (LR death, decompensation, hepatocarcinoma, and transplantation) was 0.40 (0.17-0.9; *P*=0.032) for ETR and 0.08 (0.03-0.3; *P*<0.001) for SVR. **Conclusions:** Best outcomes were achieved with an SVR. However, ETR was associated with less LR mortality and decompensation than NR.