Category: B16 Hepatitis C

Title: Biomarkers of fibrosis in HIV/HCV-Coinfected Patients With and Without Sustained Virological Response Following Interferon Plus Ribavirin

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Text: **Background** We have previously shown that SVR following interferon plus ribavirin (IFN-RBV) therapy (RX) improves long-term clinical outcomes in HIV/HCV-coinfected patients. Our aim was to estimate if SVR improves liver fibrosis by different nonpatented scores, assesing the scores before and after IFN-RBV RX. **Methods** From the GESIDA 3603/5607 Study Cohort—established to follow HIV/HCV-coinfected patients who started IFN-RBV RX between Jan 2000 and Dec 2007 in 19 centers in Spain with active follow-up —we selected patients with a pretreatment liver biopsy (LB) and assessed five nonpatented scores: FIB4, Forns, APRI, HGM1 and HGM2 using formulas of original publications, before and after finalization of IFN-RBV RX. For purposes of analysis, we used the difference between both assesments and and its association with antiviral response. **Results** From 1601 HIV/HCV-coinfected patients included in the cohort, 1154 had a baseline LB and 812 had a pre and post-RX biomarkers measurement. The result of the different biomarkers measurement categorized by baseline LB values (F0-F2 and F3-F4) and RX response are shown

	Non-RVS	RVS	p
Baseline LB with F0-F2	307 (62,1)	187 (37,9)	<0,001
FIB4 difference from baseline	0,18 (-0,32; 0,78)	-0,36 (-0,87; 0,03)	
FORNS difference from baseline	0,45 (-0,32; 1,56)	-0,87 (-1,75; -0,05)	<0,001
APRI difference from baseline	-0,13 (-0,5; 0,26)	-0,57 (-1,13; -0,23)	<0,001
HGM1 difference from baseline	-0,02 (-0,23; 0,15)	-0,25 (-0,46; -0,08)	<0,001
Baseline LB with F3-F4	228 (71,7)	90 (28,3)	<0,001
FIB4 difference from baseline	0,19 (-0,44; 1,99)	-0,52 (-1,41; -0,15)	<0,001
FORNS difference from baseline	0,41 (-0,46; 1,44)	-0,94 (-1,92; 0,25)	<0,001
APRI difference from baseline	-0,13 (-0,85; 0,48)	-0,7 (-1,46; -0,23)	<0,001
HGM1 difference from baseline	-0,03 (-0,16; 0,06)	-0,28 (-0,44; -0,11)	<0,001

[Table 1]

Conclusions The achievement of an SVR after IFN-RBV RX in HIV/HCV-coinfected patients is associated with improved in all scores studied. These results, based on a non-invasive method, show that eradication of HCV improves liver fibrosis in coinfected patients.