

POSTER PRESENTATION

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# No impact of IL28B polymorphisms on liver enzymes in patients coinfecting with HIV and HCV

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## Background

IL-28B single nucleotide polymorphisms (SNPs) strongly influence both spontaneous HCV clearance and response to peginterferon-ribavirin therapy. There is no information about the impact of IL28B SNPs on the natural history of HCV liver disease and/or the rate of elevated liver enzymes.

## Methods

A cohort of HIV/HCV coinfecting individuals with normal (<41 IU/L) or elevated (41 IU/L) ALT levels for >12 months were screened for the rs12979860 SNP at the IL-28B gene. The proportion of patients with the favorable (CC) or unfavorable (CT/TT) genotypes were compared in both groups.

## Results

A total of 124 patients (44% normal ALT levels, median age 42 years, 68% males, 93% IDUs, 33% alcohol abuse, 5% HBsAg+, median CD4 count 511 cells/ $\mu$ L, median serum HCV-RNA 6.05 log<sub>10</sub> copies/mL, 62% HCV genotype 1) were analyzed. Overall 34% of the whole population displayed the IL-28B CC genotype. When comparing ALT groups, 18 (32.7%) with normal ALT showed CC vs 25 (36.2%) with elevated ALT ( $p=0.71$ ). Using elastometry (FibroScan), liver fibrosis estimates were significantly lower at baseline in patients with normal vs elevated ALT (6.3 $\pm$ 2 vs 14.4 $\pm$ 12 kPa, respectively,  $p<0.001$ ). Other differences amongst groups were not significant, as follows: baseline serum HCV-RNA (5.95 vs 6.05 log<sub>10</sub> IU/mL,  $p=0.62$ ), CD4 counts (499 vs 543 cells/ $\mu$ L,  $p=0.34$ ), and prothrombin activity (91% in both groups,  $p=0.99$ ). Patients with normal vs elevated ALT were found to be coinfecting more frequently with HCV genotypes 1 or 4 (45% vs 26%,  $p=0.02$ ).

## Conclusions

IL28B genotypes do not influence ALT levels in HIV-HCV coinfecting patients. Higher ALT levels are associated with a greater extent of liver fibrosis.

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