

HIV/Hepatitis C Coinfection: Two cases

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CASE 1

- 32 year old male
- Attended the hospital for check-up in February 2006
 - AST 884 mg/dl
 - ALT 367 mg/dl
 - GGT 573 mg/dl
- Referred to the Dept of Gastroenterology

- March 2006
 - Anti-HAV IgM negative
 - HBsAg negative
 - Anti-HBs positive
 - Anti HIV positive (confirmed)
 - Anti-HCV positive
 - CMV IgM and IgG negative
 - EBV VCA IgM negative IgG positive
 - Toxoplasma IgM negative
 - HCV RNA 2.48×10^6 copies/ml
 - VDRL and RPR negative

- April 2006
 - HIV RNA 6.75×10^4 copies/ml
 - HCV RNA 9.29×10^4 IU
 - CD4 667 cells/mm³
 - FANA IFA negative
 - ASMA IFA negative
 - AMA IFA negative
 - ANA negative
- Patient did not give consent for liver biopsy

- May 2006
 - Treatment for hepatitis C started
 - Pegylated interferon α 2b 180 mg/week
 - Ribavirin tbl 3 x 2/day
 - No antiretroviral treatment initiated

- June 2006 (at one month of treatment)
 - ALT 114 mg/dl
 - AST 58 mg/dl
- July 2006 (at two months of treatment)
 - ALT 117 mg/dl
 - AST 59 mg/dl
- August (at three months of treatment)
 - ALT 140 mg/dl
 - AST 74 mg/dl
 - HCV RNA 1.14×10^5 IU (unresponsive)
 - HIV RNA $>1 \times 10^5$ copies/ml

- Decision to sustain treatment for 9 more months (total of 12 months)

- October 2007 (at 5 months of treatment)
 - ALT 98 mg/dl
 - AST 54 mg/dl
 - HCV RNA 2.2×10^6 IU
- December 2007 (at 7 months of treatment)
 - ALT 77 mg/dl
 - AST 44 mg/dl
 - HCV RNA 1.76×10^6 IU

- February 2007 (at 9 months of treatment)
 - ALT 91 mg/dl
 - AST 58 mg/dl
 - HIV RNA 73,730 copies/ml
 - CD4 595/mm³

- 12 months of treatment completed
- Test results not available yet (probably unresponsive)

CASE 2

- 36 year old female
- Tested for HIV-HBV-HCV prior to tympanoplasty (March 2002)
 - HBV serology negative
 - HIV serology positive
 - HCV serology positive
 - ALT 28 mg/dL, AST 22 mg/dL
 - CD4 37/mm³
 - HIV RNA >1 x 10⁵ copies/mL

- HCV RNA positive
- Abdominal US normal
- Liver biopsy
 - Medium activity
 - Stage I
 - HAI: 5/16
 - Score: 7/20
- Autoimmune markers negative

- April 2002
 - HAART
 - AZT + 3TC + IDN
 - TMP/SXT + fluconazole prophylaxis
- September 2002 (5 mo of treatment)
 - ALT 505 mg/dL
 - ART and prophylaxis stopped
- October 2002
 - ALT 200 mg/dL
 - ART reinitiated

- November 2002 (6 mo of treatment)
 - HIV RNA <50 copies/mL
 - CD4 148/mm³
- January 2003 (8 mo of treatment)
 - Intolerance to IDN; substituted by NVP
- January 2004
 - ALT 300 mg/dL (hepatotoxicity? HCV reactivation?)
 - ART stopped

- April 2004
 - ALT 238 mg/dL
 - AST 198 mg/dL
 - HCV RNA positive
- HCV treatment initiated
 - Pegylated IFN α 2b 80 mg/wk + RBV 800 mg/d

- July 2004 (3 mo of HCV treatment)
 - HCV RNA negative
 - HIV RNA 1×10^5 copies/mL
 - CD4 170/mm³
 - HIV susceptibility testing: no resistance to ZDV/3TC/NVP
- October 2004 (6 mo of HCV treatment)
 - HCV RNA negative
 - ALT normal

- November 2004 (7 mo of HCV treatment)
 - ART restarted
- January 2004 (9 mo of HCV treatment)
 - Patient stopped HCV treatment
 - HCV RNA negative
 - ALT normal

- April 2005
 - HIV RNA 977 copies/mL
- November 2005
 - HIV RNA 4900 copies/mL
 - CD4 204/mm³
 - HCV RNA negative

- May 2006
 - HIV RNA 4000 copies/mL
 - CD4 180/mm³
 - HCV RNA negative
- December 2006
 - HIV RNA 1149 copies/mL
 - CD4 197/mm³