

POSTER PRESENTATION

Open Access

# The study of hepatitis B surface antigen and anti-HCV in HIV infected patients

N Girish<sup>1\*</sup>, T Nagarathnamma<sup>2</sup>, K Saileela<sup>1</sup>, B Sreekanth<sup>1</sup>, D Venkatesha<sup>3</sup>

From First International Science Symposium on HIV and Infectious Diseases (HIV SCIENCE 2012)  
Chennai, India. 20-22 January 2012

## Background

HIV is known to influence the natural history of infections with HBV and HCV and interactions between HIV and these hepatitis viruses may potentiate HIV replication. The present study deals with the co-infection of HBV and HCV in HIV infected patients and also with the mode of transmission of HBV and / or HCV in HIV infected patients with special reference to high risk groups.

## Methods

The study group included 106 HIV positive patients with history of heterosexual contact and the control group included 30 asymptomatic healthy individuals. The sera of patients were tested for HBsAg and anti-HCV using third generation ELISA kits. The samples positive for first kit were retested for confirmation of results. The sera of control group were simultaneously screened for HIV, HBsAg, and anti-HCV by ELISA method.

## Results

In the study of 106 HIV seropositive patients, 22 (20.75%) were positive for HBsAg and 5 (4.72%) were positive for anti-HCV. One patient (0.94%) was positive for both HBsAg and anti-HCV. Among the 30 healthy controls, one individual (3.3%) was positive for HBsAg and none were positive for HIV and anti-HCV. The co-infection of HIV and HBV in the study population was statistically significant when compared to controls ( $p<0.05$ ).

## Conclusions

The sexual transmission of both HBV and HCV is of epidemiological importance in the light of heterosexual transmission of HIV in India. Monitoring of HIV infected patients for concurrent infection with HBV and HCV is therefore necessary.

### Author details

<sup>1</sup>Kamineni Institute of Medical Sciences, Narketpally, Nalgonda, India.

<sup>2</sup>Bangalore Medical College, Bangalore, India. <sup>3</sup>Govt. Medical College, Mysore, India.

Published: 4 May 2012

doi:10.1186/1471-2334-12-S1-P18

Cite this article as: Girish et al.: The study of hepatitis B surface antigen and anti-HCV in HIV infected patients. *BMC Infectious Diseases* 2012 12 (Suppl 1):P18.

Submit your next manuscript to BioMed Central  
and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at  
[www.biomedcentral.com/submit](http://www.biomedcentral.com/submit)



\* Correspondence: girishdasanur@yahoo.co.in

<sup>1</sup>Kamineni Institute of Medical Sciences, Narketpally, Nalgonda, India  
Full list of author information is available at the end of the article