**Short Communication**

**SERO PREVALENCE OF HEPATITIS B AND C IN SURGICAL PATIENTS**

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**Summary**
The objective of this study conducted in patients above thirteen years of age undergoing surgery at Jacobabad Sindh from February 2007 to July 2007 was to find out the prevalence of hepatitis B & C and compare the incidence with other areas of Pakistan. Sero prevalence of viral hepatitis B & C combined was 23.55% whereas 14% were positive for Hepatitis C and 9.33% for Hepatitis B. In view of this high prevalence rate we feel it is essential to routinely screen all patients undergoing surgery for Hepatitis B and C.

**KEYWORDS:** Hepatitis B, Hepatitis C, Elective Surgery.

**INTRODUCTION**
Viral Hepatitis is a serious global health problem. About two billion people have been infected with hepatitis B virus and 350 million have chronic life long infection.¹ The prevalence of HCV is higher and it is estimated that about 170 million people are chronically infected while three to four million people are newly infected every year.² Pakistan has huge burden of these viral diseases, the common risk factors are blood transfusion, haemodialysis, thalassemia, use of unsterilized syringes, barber shaving, tattooing & sexual abuse.³ This problem of viral hepatitis in hospitalized patients is not adequately controlled although the asymptomatic patient pose great danger of spreading the infection to other patients and medical personnel.⁴,⁵

**METHODOLOGY**
This study was conducted in the surgical patients at City Medical Centre Jacobabad from February 2007 to July 2007. All the patients below thirteen years of age admitted through emergency. Patients who were known to be positive for hepatitis B & C were excluded. Information regarding having symptoms of viral hepatitis like pain in right upper abdomen, anorexia, nausea, dyspepsia, vomiting, fever and Jaundice etc., was collected. All patients were screened for hepatitis B & C using ICT KIT method.

**RESULTS**
During the study period 150 patients which included 83 male and 67 female were screened. Thirty five (23.5%) patients were found to be positive for Hepatitis B and C, among them twenty one (14%) were positive for HCV and fourteen (9.33%) were positive for hepatitis B. Most common age group affected was 20-30

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* Received for Publication: January 5, 2008
* Revision Accepted: May 31st 2008
years. (HBV 35.77%, HCV 33.3%). Among HBV positive patients 64.28% were male and 35.71% were female. In HCV 52.33% were male and 47.60% were female. Only three patients (8.57%) had past history of jaundice and five patient (14.28%) had symptoms like malaise and dyspepsia. Among positive patients five cases (14.28%) had previous surgeries and two patients (5.71%) gave history of blood transfusion in the past. One patient was intravenous drug abuser. None of them was vaccinated for hepatitis B. However, many of them agreed for screening and vaccination of their family members against these viral diseases.

DISCUSSION

According to reports HBsAg carrier rate is around 10% in different areas of Pakistan. In our study the Seroprevalence was 9.33% slightly lower than described by Yousuf et al. Different studies carried out at different areas of Pakistan by Shaikh et al., Talpur AA and Malik et al. carrier state of HBsAg has been reported as 2.8%, 8.6% and 10% respectively. The Seroprevalence of hepatitis C in Pakistan varies from 4% to 7%, 11.6% Talpur AA, 11.26% Chaudhary et al., but our result are higher than these studies. Overall Hepatitis B and C Seroprevalence was found to be 23.33% in our study which is similar to the figures reported from other parts of Pakistan. Zubia et al. in their study looked at 387 patients admitted for elective surgery. After screening they found that 6% of the patients enrolled in this study were positive for both HBV and HCV. HBsAg was positive in 6.5% of patients while 11.3% were positive for HCV. Risk factors in their study included reuse of contaminated syringes, contaminated surgical instruments and blood products. They concluded that prevalence of HBsAg and anti HCV in hospitalized surgical patients is very high. They suggested that screening for HBV and HCV should be a routine pre operative investigation.

Chaudhry et al also conducted another study among patients reporting in surgical OPD of Fauji Foundation Hospital Rawalpindi during 2006. They screened 2056 patients and found prevalence of Hepatitis B as 2.8%, sero prevalence of Hepatitis C was 7.56 with male predominance in both the groups. Khan from Mardan and Amin et al. from Lahore have reported prevalence of HCV as 9% and 13.5% respectively.

CONCLUSIONS

High prevalence of hepatitis B and C in this study as well as other studies suggest that pre operative screening of patients going for surgery should be mandatory. Further more in view of the high infection and carrier rate, all preventive measures should be adopted to check and control these viral disorders.

REFERENCES