

MATERIALS AND METHODS

This study is aimed to find out the prevalence rate of HBsAg in Sheikh Zayed Hospital, Rahim Yar Khan. The research work was carried out in the Pathology Department of the respective hospital. A total of 100 patients samples were collected of different age groups. For the demographic information a performa

was used. 5ml whole blood was collected with sterile syringe and transferred in to EDTA vial. HBsAg is

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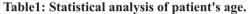
Prevalence of HBsAg among the Patients of Sheikh Zayed Hospital Rahim Yar Khan Pakistan

determined by using Biotech kit and ELISA was performed by using thermo scientific Multiskan^(R) kit. The entire test was performed as per the kit instruction.

RESULTS AND DISCUSSION

The ethical authority of the hospital approved the present study. A total 100 patients were included in this study. Mean age of the patients was 40.92 while median and mode are 37 and 35 respectively (Table 1). Out of total the 5 (5%) patients was HBsAg positive and 95 (95%) were found negative as shown in figure 1. Females are 44 (44%) while male population is 56 (56%) (Figure 2). In figure 3, married patients are 74% which are relatively more than unmarried population 26%. A study was conducted by Nafees et al (2009) in Lahore and he reported 8.06% of prevalence of HBsAg in general population.^[8] While the results of HBsAg positives of our study are 5% which are different from the study and most probably due to using different test procedures. Another study was carried out by Sheikh et al (2009) in Larkana and he showed 4.8% prevalence of HBsAg^[9] and the results were similar to our study. The results in our study are greater and most probably the study has done in 2006 and we conducted in 2013, and prevalence of HBV is increasing day by day. Sarwar et al (2008) in Abbottabad showed 2.4% prevalence of HBsAg in Healthcare personals^[10] and results in this study are lower than the results of our study because health care workers knows more about means of acquiring HBV infections as compared to our study.

Statistics of patients age	
Mean	40.92
Median	37
Mode	35
Std. Deviation	18.546
Range	78
Minimum	14
Maximum	92



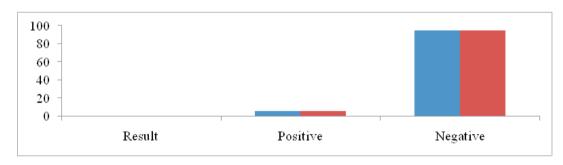


Figure 1: Percentage distribution of HBsAg positive patients.

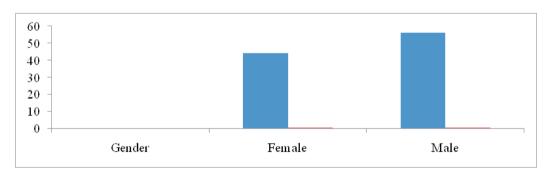
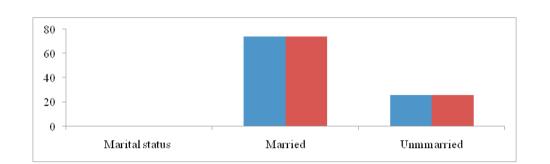


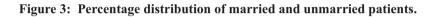
Figure 2: Percentage distribution of male and female hepatitis patients

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CONCLUSIONS

From this study it was concluded that the prevalence of HBV increase day by day. We also concluded that serology test is not enough for the diagnosis of HBV. PCR HBV should also be performed of HBsAg positive samples.

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REFERENCES

1.Lavanehy, D. (2004). Hepatitis B Virus epidemiology, disease burden, treatment, and current and emerging prevention and control measures. J Viral Hepat, 11:97-107.

2. Yousfani, S., Mumtaz, F. and Memon, A. (2006). Antenatal screenting for Hepatitis B and C Virus carrier state at a University hospital. J LUMHS January-April 5(1); 24-7.

3.Ali, H. and Memon, M.A. (2007). Prevalence of Hepatitis B infection in pregnant women in tertiary care Hospital Karachi. Infection disease Journal of Pakistan.16 (2); 35-8.

4.Panagopoulas, P., Economou, A. and Karimi, A. (2004). Prevalence of Hepatitis B and C in the maternity department of a Greek district Hospital. The Journal of Maternal-Fetal and Neonatal Medicine. 16; 106-10. 5.Mast, E.E., Margolis, H.S., Fiore, A.E., Brink, E.W., Goldstein, S.T. and Wang, S.A. (2005). A

comprehensive immunization strategy to eliminate transmission of hepatitis B Virus infection in the United States. Recommendation of the Advisiory committee on immunization practices (ACIP) part1: immunization of infants, children and adolescents. MMWR Recomm Rep: 54:1-31.

6.Sullivan, B.G., Giddng, H.F., Law, M., Kaldor, J.M. and Gilbert, G.L. (2004). Estimates of chronic hepatitis B Virus infection in Australia. Aust NZ J Public Health, 28:212-6.

7.Shams, H.R., Hussain, S. and Ikram, S. (2010). Sero Prevalence of Hepatitis B and C in Pregnant women. Ann. Pak. Inst. Med. Sci, 6(1); 40-43.

8.Nafees, M., Farooq, M. and Jafferi, G. (2009). Frequency of Hepatitis B and C infections in general population of Lahore, Pakistan. Biomedica, 25: 106-11.

9.Sheikh, E.M., Naz, S., Bhatti, A., Sheikh, M.A., Sheikh, R., Sheikh, W.M. and Laghari, K.N. (2009). Seroprevalence of Hepatitis B and C at sheikh zaid Hospital, Larkana. Medical channel, 15; 161-163.

10.Sarwar, J., Gul, N., Idris, M., Rehman, A., Farid, J. and Adeel, M.Y. (2008). Seroprevalene of hepatitis B and C in Healthcare workers in Abbottabad. JAyub Med Coll Abbottabad, 20:27-20

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