

ORIGINAL ARTICLE

HEPATITIS B CORE ANTIBODY IN BLOOD DONOR IN SISTAN-BALUTUESTAN PROVINCE OF IRAN

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ABSTRACT

BACKGROUND: Safety of blood donor is an important issue for a recipient of blood so all blood donors are to screened for viral such as HBV, HCV, and HIV. Nevertheless, infections sometime occur by blood and its products. **OBJECTIVE:** Because we haven't got any awareness about isolated Hbc Ab from a blood donor who presented of occults B hepatitis which can transmit infection to blood recipient, we decided to evaluate HbcAb in a blood donor in this province. **MATERIALS AND METHODS:** This is a cross-sectional study on a blood donor in Sistan-Balutuestan province in southeast of Iran in 2010. All individuals referred for blood donation recruited to this. After consent demographic data was recorded from each case, 5 ml blood sample was drawn and centrifuged to separate out the serum and then HbsAb, HbcAb was assayed. Data analyzed by SPSS 16 and frequency, chi-square test, and Fisher exact test was used and if $P > 0.05$ it was accented as significant association. **RESULT:** All individuals were men with age 55 10.5 years. The number of people who had free job was 149 (34.6%) and the number of people whose education level was diploma was 159 (36.9%). About 423 (98.1%) lived in urban areas. The mean weight of men was 76.6 13.7; about 259 (60.1%) men were married. A total of 22 (5.1%) had a positive smoking history. Hbc Ab was positive in 87 (20.2%). Nearly all people had HBsAb titer more than 10 IU/L. **CONCLUSION:** This study showed that some of the blood donors had isolated HbcAb positive therefore we recommend HbcAb screening for blood donation.

Key words: Blood donation, HbcAb, HbsAb, hepatitis

INTRODUCTION

The risk of transfusion-transmitted infections has been dramatically reduced now. Safety

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of a blood donor safety is an important issue because some viral and bacterial microorganism may get transmit to patients by blood and its products. Although blood donor screening is done for viral infection but there

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