

Sero- prevalence of Hepatitis- B among Clinically
Suspected Patients Visiting Bir Hospital

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Submitted by
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Recommendation

This is certified that **Mr. Prakash Gyawali** has completed his dissertation work entitled "**Sero-Prevalence of Hepatitis-B Among Clinically Suspected Patients Visiting Bir Hospital**" as a partial fulfillment of the M.Sc. Degree in Zoology (Parasitology) under our supervision. To our knowledge his work has not been submitted to any other degree.

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Abstract:

A serological study of clinically suspected patients was conducted in Bir hospital during 15th July 2002 to 15th May 2003. During the study period a total of 275 samples were collected from clinically suspected patients with an objective to determine sero-prevalence of Hepatitis-B surface antigen (HBsAg). The basis of suspicion was prodromal features, jaundice and presence of risk factors associated with transmission of HBV. Out of total sample, 203 samples were from male and 72 samples were from females. The prevalence of Hepatitis-B was found to be 11.63%. The sex-wise prevalence was found to be more in males (12.32%) than females (9.72%). The highest prevalence (18.75%) was found in the age group of 25-29 which is economically most productive age group. The least prevalence was found in the age group 15-19 in male (4.35%) and 30-34 in female (7.7%). Hepatitis-B cases were not reported from 10-14 and above 45 years of males as well as below 20 years and above 35 years in female. Risk factors such as history of blood transfusion (3.1%), surgery (3.1%) and IV drug abuser (3.1%) show significantly low prevalence of Hepatitis-B while multiple sexual partner shows high prevalence of Hepatitis-B (12.5%).

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List of Abbreviation

ALT	-	Alanine amino Transferase
Anti-HBc	-	Antibody to HBcAg
Anti-HBe	-	Antibody to HBeAg
Anti-HBs	-	Antibody to HBsAg
AST	-	Asparate amino transferase
DNA	-	De-oxy ribonucleic acid
EIA	-	Enzyme Immuno Assay
ELISA	-	Enzyme Linked Immuno Sorbent Assay
EPI	-	Expanded Programme of Immunization
HBcAg	-	Hepatitis-B Core Antigen
HBeAg	-	Hepatitis-B envelope Antigen
HBsAg	-	Hepatitis-B Surface Antigen
HBV	-	Hepatitis-B Virus
HCC	-	Hepatocellular Carcinoma
IgG	-	Immunoglobulin G
IgM	-	Immunoglobulin M
OPD	-	Out door Patient Department
RNA	-	Ribonucleic acid
SGOT	-	Serum Glutamic-oxaloacetic Transferase
SGPT	-	Serum Glutamic-pyruvic Transferase
STD	-	Sexually Transmitted Disease
WHO	-	World Health Organization