Knowledge, attitudes and practices towards prevention of Hepatitis B infection among medical students of Faculty of Medicine, University of Kelaniya

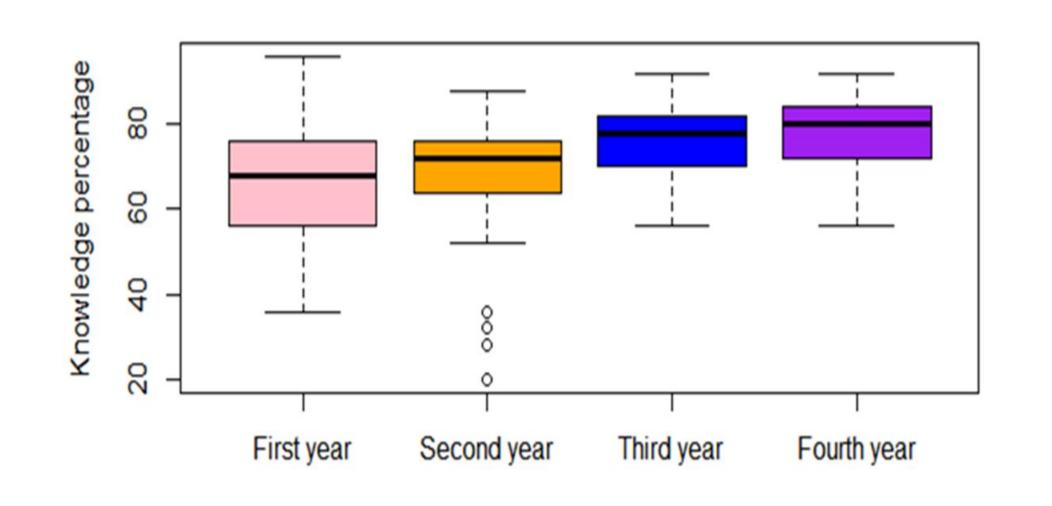


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Introduction

Group B.2.4

Hepatitis B infection, being the most contagious



There's a positive correlation between					
knowledge(Spearman r = 0.4384, p-value < 0.001)					

blood borne infection is a major concern amongst
health professionals as they are at a higher risk.
The preclinical students must be aware about the
universal precautions before the start of their clinical
rotations because the risk of exposure cannot be
undermined.

Objective

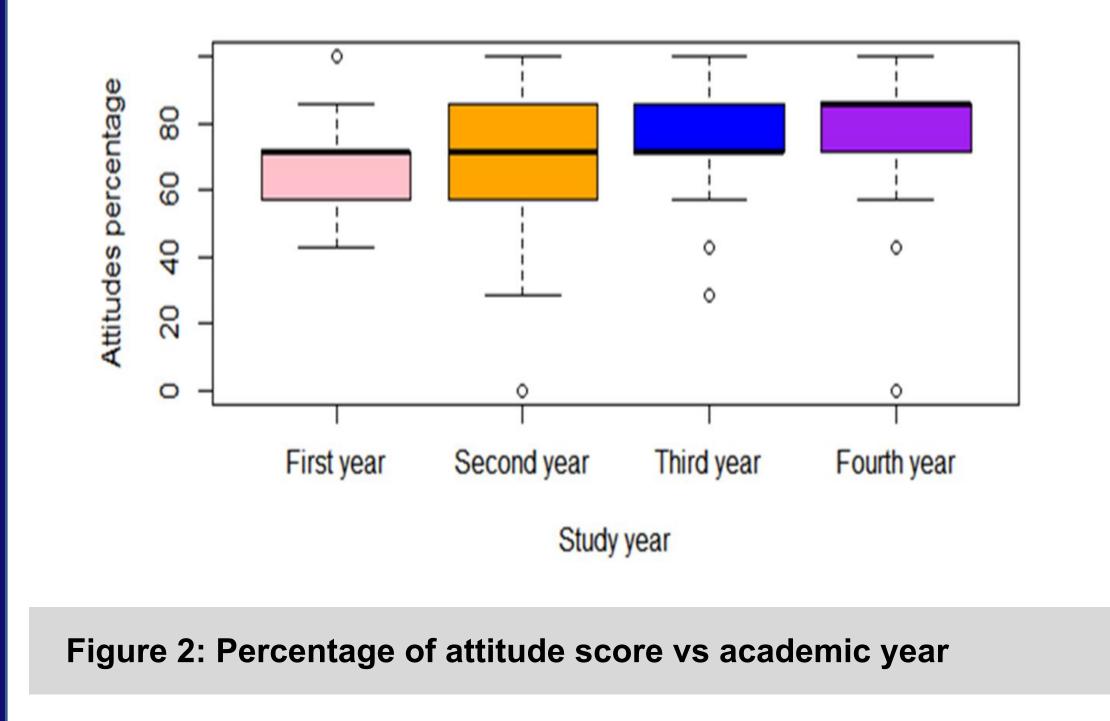
To assess the knowledge, attitudes and practices towards the prevention of Hepatitis B infection

among medical students.

N	lethod	
	Study design	Descriptive cross sectional study
	Study setting	Faculty of Medicine, University of Kelaniya
	Study period	November 2019-January 2020

Study year

Figure 1: Percentage of knowledge score vs academic year



According to Wilcoxon signed-rank test, there is a

(Figure 3), attitudes(Spearman r = 0.3133, p-value

<0.001)(Figure 4) towards the prevention of Hepatitis B

and academic year.

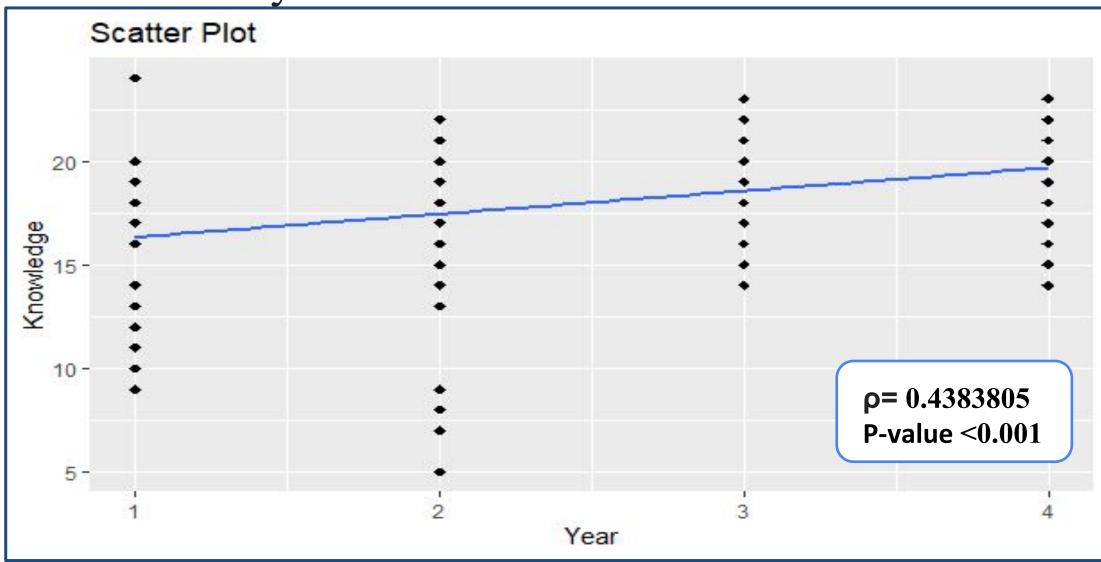
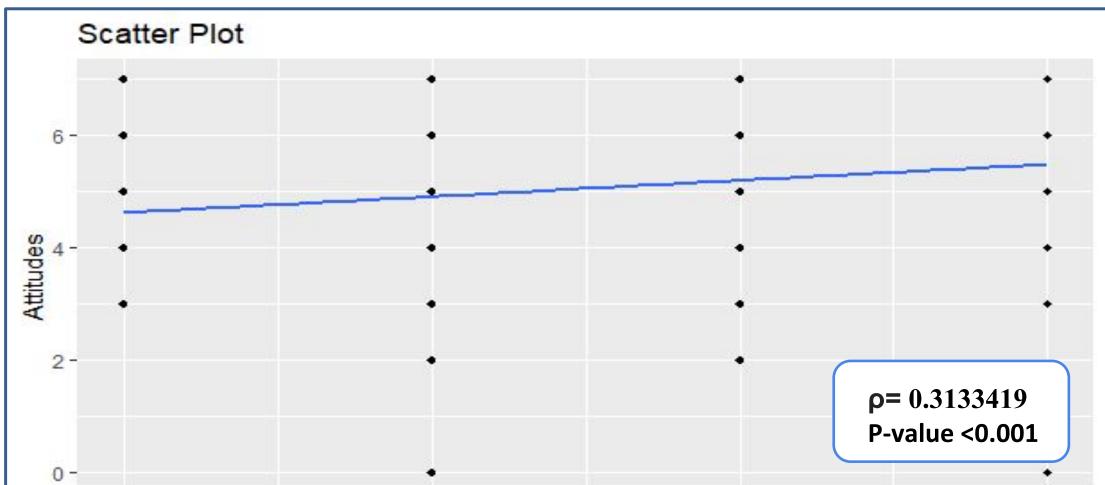


Figure 3: Scatter plot for knowledge scores and academic year



Study population	Medical students of Faculty of Medicine University of Kelaniya				
Exclusion criteria	Final year medical students & students who were supposed to sit for 1 st examination for medical degrees				
Reference population	15 doctors who work at CNTH				
Sample size	400				
Sample method	Systematic sampling				
Study tool	Self-administered questionnaire of 4 parts. (relevant demographic data included)				

significant median difference between being preclinical
or clinical and knowledge score (p-value < 0.001),
attitudes score(p-value <0.001).</pre>

Table 2: Percentage of adequate knowledge, attitudes and practices							
Year of study	Knowledge		Attit	udes	Practices		
	Adequate	Inadequate	Adequate	Inadequate	Adequate	Inadequate	
1ST YEAR	1%	99%	12%	88%			
2ND YEAR	3%	97%	34%	66%			
3RD YEAR	69%	31%	49%	51%	60%	40%	
4TH YEAR	90%	10%	55%	45%	88%	12%	

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 Figure 4:Scatter plot for attitude scores and academic year

 Conclusion & Recommendations

 1.The percentage of students who're of adequate

 knowledge (z=16.1972, p<0.001) and attitudes (z=5.9902, p<0.001) towards the prevention of Hepatitis B infection is significantly higher in clinical batches than preclinical batches.</td>

 2.The percentage of students from the clinical batches who're of adequate practices towards the prevention of Hepatitis B infection is higher in 4th year(88%) than 3rd year(60%)

 3.There's a statistically significant association between being preclinical or clinical and their

knowledge(p-value<0.001), attitudes (p-value<0.001)

towards the prevention of Hepatitis B infection and there's
a positive correlation between academic year and knowledge, attitudes.
4. The lack of knowledge and attitudes of the preclinical batches, towards the prevention of Hepatitis B infection
could be highlighted. Vaccination of these students before
the start of their clinical rotations and methods to build up
proper knowledge on the universal precautions and
attitudes towards the prevention of Hepatitis B infection is

Data analysis

Adequate knowledge, attitude and practices will be determined by median scores of the reference group. R software was used for analysis

Results

Out of 400 participants, majority were females (67.5%) (Table 1), Most of the participants were Sinhalese (89.75%).

Table 1: Distribution of sex in the study sample							
1	st year	2nd	year	3rd	year	4th	year
Male	Female	Male	Female	Male	Female	Male	Female
29%	71%	34%	66%	49%	51%	18%	82%

Adequacy of knowledge, attitudes are **significantly associated** with,

Being preclinical or clinical

□ Having involved in a health related job (Table 3)

 Table 3: Obtained p-values using chi-squared test for adequacy of knowledge, attitudes & practices

	Clinical or Preclinical	Sex	Previous health related job	Family member involved in a health related job	Relative involved in a health related job
Knowledge	<0.001	0.801	<0.001	0.121	0.557
Attitudes	<0.001	0.473	0.0185	0.077	0.251
Practices (Clinical only)		0.082	0.003	0.319	0.010

References

Wutayd, O. Al, Alrehaili, A., Al Safrani, K., Abalkhail, A., & Aleidi, S. M. (2019). Current Knowledge, Attitudes, and Practice of Medical Students Regarding the Risk of Hepatitis B Virus Infection and Control Measures at Qassim University, 7(3), 435–439.

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