#### **APPENDIX A: ADAPTED STUDY QUESTIONNAIRE**

#### **HEPATITIS B VACCINATION QUESTIONNAIRE**

For Official Use Only					
Researcher	Questionnaire no:				
Date of Data Collection (DD/MM/YY)					

IMPLIED CONSENT (<u>Please read before completing questionnaire</u>): Having gone through the research information contained in the participant information sheet, by completing this questionnaire you are consenting to participate in the study. If you do not wish to complete the questionnaire, please put the blank version into the envelope and I will collect it with all other questionnaires. Thank you.

# <u>Please only complete the questionnaire if you are aged 18 years and above and</u> <u>have at least 6 months of service with FRSC</u>

**Note:** This questionnaire is anonymous; please do not write your name on it. Kindly give an answer to <u>all</u> the questions as it pertains to you and please answer as <u>truthfully</u> as you can.

Please check (✔) only the box that most correctly answers the question, making sure you make only one selection for each question except where otherwise indicated.

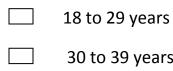
#### **Section A: Demographic Questions**

1. What is your sex?



☐ Female

2. What was your age on your last birthday?



30 to 39 years

40 to 49 years

50 years and above

### **Section B: Employment History**

3. How long have you worked with Federal Road Safety Corps (FRSC)?



3 years to 10 years



11 years to 19 years



20 years and above

4. What is your cadre?



Officer



Marshal Inspectorate



**Road Marshal Assistant** 

5. Please check ( $\checkmark$ ) the box below your rank

ACM	СС	DCC	ACC	CRC	SRC	RC	DRC	ARC

CI	DCI	ACI	PMI	SMI	MI-I	MI-II	MI-III	CRMA	DCRMA	SRMA	RMAI	RMAII	RMAIII

### Section C: Perception of Risk of Exposure to Hepatitis B Virus

6. Have you ever heard about hepatitis B virus infection?

Yes
No

7. How serious do you think being infected with hepatitis B virus is compared to HIV?

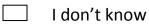
1		

Less serious than HIV

As serious as HIV



More serious than HIV



8. How can someone be infected with hepatitis B virus? (please check () all the correct boxes if your answer is more than one)

- Through contact with blood of an infected person
- Through contact with saliva of an infected person
  - Through contact with sweat of an infected person

Through contact with bo	ody fluid contaminated by	y blood of an infected person

I don't know

9. How much do you think your work with FRSC exposes you to the risk of contracting hepatitis B virus infection?

No risk of exposure
Low risk of exposure



High risk of exposure

I don't know

## Section D: Hepatitis B vaccination Knowledge and Status

10. Have you ever heard about hepatitis B vaccination?

Yes
No

11. How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection?

L	 _	_	

Not effective



Slightly effective



□ Very effective



I don't know

12. Have you ever received hepatitis B vaccination?

Yes

No

If your answer to question 12 is 'No', answer question 13; if it is 'Yes', go to question 14

13. Why have you not received hepatitis B vaccination? (Please check () all the correct boxes if your answer is more than one)

I am not aware of hepatitis B vaccination
I do not know where to go and receive it
I don't have time
It is expensive
I don't see the need
I am afraid of contracting the virus from the vaccine
Others (please state)

14. If your answer to question 12 is 'Yes', how many doses of hepatitis B vaccine have you received?

1 dose



3 doses

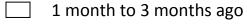


More than 3 doses

15. When did you receive the last dose of hepatitis B vaccine?

Le

ess than 1 month ago

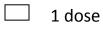


4 months to 6 months ago

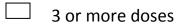


More than 6 months ago

16. What do you think is the recommended full dose of hepatitis B vaccine?







I don't know

17. How long does a full dose of hepatitis B vaccine protect someone?

Less than 1 year
1 year to 5 years
6 years to 10 years
11 years to 19 years
20 years or more
I don't know

# Thank you for your time!

## APPENDIX B: Knowledge Scoring Table

#### Scoring Table: HBV (A) and HBVc (B) Knowledge Questions and Scoring Pattern

A. Question	Options checked	Score
Have you heard about hepatitis B	Yes (🖌 )	1
virus infection? (one option)		
	No (🖍 )	0
How serious do you think being	Less serious than HIV (🖌)	0
infected with hepatitis B virus is		
compared to HIV? ( <b>one option</b> )	As serious as HIV (🖌)	0
	More serious than HIV (🖌)	1
		0
	I don't know (✔)	
How can someone be infected with	Through contact with blood of an	1
hepatitis B virus? (please check (✔) all the correct boxes if your answer	infected person (🖌)	
is more than one)	Through contact with saliva of an	1
is more than oney	infected person ( <b>blank</b> )*	
	Through contact with sweat of an	1
	infected person (blank)*	
	Through contact with body fluid	1
	contaminated by blood of an	
	infected person (🖌)	
	I don't know (🖌)	0 for all options
Maximum HBV knowledge Score	I don't know (🖌 )	0 for all options 6 of 6
Minimum HBV knowledge Score		6 of 6 0 of 6
Minimum HBV knowledge Score B. Question	Options	6 of 6 0 of 6 <b>Score</b>
Minimum HBV knowledge Score B. Question Have you ever heard about hepatitis		6 of 6 0 of 6
Minimum HBV knowledge Score B. Question	Options Yes (✔)	6 of 6 0 of 6 <b>Score</b> 1
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> )	Options           Yes (✔)           No (✔)	6 of 6 0 of 6 Score 1 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? (one option) How effective do you think hepatitis	Options Yes (✔)	6 of 6 0 of 6 <b>Score</b> 1
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? (one option) How effective do you think hepatitis B vaccination is in protecting	Options         Yes (✔)         No (✔)         Not effective (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus	Options           Yes (✔)           No (✔)	6 of 6 0 of 6 Score 1 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? (one option) How effective do you think hepatitis B vaccination is in protecting	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus	Options         Yes (✔)         No (✔)         Not effective (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0 1 1
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> )	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0 1 0 0 0 1 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> ) What do you think is the	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0 1 0 0 0 1 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> ) What do you think is the recommended full dose of hepatitis	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)         1 dose (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> ) What do you think is the recommended full dose of hepatitis	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)         1 dose (✔)	6 of 6 0 of 6 <b>Score</b> 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> ) What do you think is the recommended full dose of hepatitis	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)         1 dose (✔)         2 doses (✔)         3 or more doses (✔)	6 of 6 0 of 6 Score 1 0 0 0 1 0 0 0 1 0 0 1 1 1 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> ) What do you think is the recommended full dose of hepatitis B vaccine? ( <b>one option</b> )	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)         1 dose (✔)         2 doses (✔)         3 or more doses (✔)         I don't know (✔)	6 of 6         0 of 6         Score         1         0         0         0         1         0         0         0         0         0         1         0         0         1         0         1         0         0         1         0         0         1         0
Minimum HBV knowledge Score <b>B. Question</b> Have you ever heard about hepatitis B vaccination? ( <b>one option</b> ) How effective do you think hepatitis B vaccination is in protecting someone against hepatitis B virus infection? ( <b>one option</b> ) What do you think is the recommended full dose of hepatitis	Options         Yes (✔)         No (✔)         Not effective (✔)         Slightly effective (✔)         Very effective (✔)         I don't know (✔)         1 dose (✔)         2 doses (✔)         3 or more doses (✔)	6 of 6 0 of 6 Score 1 0 0 0 1 0 0 0 1 0 0 1 1 1 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1

A. Question	Options checked	Score	
someone? (one option)	1 year to 5 years (🖌)	0	
	6 years to 10 years (🖌)	0	
	11 years to 19 years (🖌 )	0	
	20 years or more (🗸)	1	
	I don't know (🖌 )	0	
Maximum HBVc knowledge scor	e	4 of 4	
Minimum HBVc knowledge score	e	0 of 4	

\* HBV can be found in saliva but the concentration is very low compared to blood; direct injection through bites is required to transmit the virus via this medium.<sup>1,2</sup> Transmission has not been observed through sweat.<sup>1</sup>

#### **References:**

- Canadian Center for Occupational Health and Safety (CCOHS). Hepatitis B. OSH Facts Sheet 2014. <u>http://www.ccohs.ca/oshanswers/diseases/hepatitis\_b.html</u> (Accessed: 27th July 2015).
- 2. Centers for Disease Control and Prevention (CDC). When Someone Close to You has

Viral Hepatitis. Division of Viral Hepatitis 2010.

http://www.cdc.gov/hepatitis/HBV/PDFs/HepBWhenSomeoneClose.pdf (Accessed: 26th

June 2015).

Variable	Valid Sample Size	Available Data	Percentage	Missing Data	Percentage
Sex	341	327	95.9	14	4.1
Age	341	338	99.1	3	0.9
Duration of Service	341	339	99.4	2	0.6
Cadre	341	341	100	0	0
Ever heard of HBV infection?	341	340	99.7	1	0.3
Seriousness of HBV compared to HIV	341	335	98.2	6	1.8
Route of Transmission of HBV	341	337	98.8	4	1.2
Perception of Risk of exposure to HBV	341	340	99.7	1	0.3
Ever heard of hepatitis B vaccination?	341	336	98.5	5	1.5
Effectiveness of hepatitis B vaccination	341	334	97.9	7	2.1
Ever received hepatitis B vaccination?	341	325	95.3	16	4.7
Number of doses received	198	198	100	0	0
Recommended full dose of hepatitis B vaccine	341	308	90.3	33	9.7
Duration of protection from full-dose HBVc	341	312	91.5	29	8.5

Appendix C: Frequency of Available Data and Missing Data from Completed Questionnaires, Federal Road Safety Corps, Kaduna Sector Command, Nigeria, June-July, 2015