

## Anex 1

### Questionnaire

Serological and molecular characterizations of HBV, HDV and HCV among Health Care Workers in Public Hospitals, in White Nile State, Sudan; the year 2013

#### 0 QUESTIONNAIRE IDENTIFICATION DATA

001 QUESTIONNAIRE IDENTIFICATION NUMBER                      |\_|\_|\_|\_|

002 CITY-----

003 HOSPITAL-----

004 DEPARMENT-----

005 TELEPHONE NO.-----

**Introduction:** "My name is..... I'm working for a group of researchers at the Department of Community Medicine, Faculty of Medicine, University of Khartoum. We're interviewing people here in [name of hospital ..... or department.....] in order to find out the serological and molecular characterization of HBV, HDV and HCV among Health Care Workers in Public Hospitals, in White Nile State. Have you been interviewed in the past few weeks [or other appropriate time period] for this study? **IF THE RESPONDENT HAS BEEN INTERVIEWED BEFORE DURING THIS ROUND, WE DO NOT INTERVIEW THIS PERSON AGAIN.** WE tell them we cannot interview them a second time, thank them, and end the interview. If they have not been interviewed before, continue:

**Confidentiality and consent:** "I'm going to ask you some personal questions. Your name will not be written on this form. You do not have to answer any questions that you do not want to answer, and you may end this interview at any time you want to. However, your honest answers to these questions will help us better understand the situation of HBV among HCWs in Khartoum State Public Civil Teaching Hospitals. We would greatly appreciate your help in responding to this survey. The survey will take about XX minutes to ask the questions. Would you be willing to participate?"

\_\_\_\_\_

(Signature of interviewer certifying that informed consent has been given verbally by respondent)

#### Interviewer visit

Date	
Interviewer	
Result	

Result codes:

Completed 1; Respondent not available 2; Refused 3; partially completed 4.

005 INTERVIEWERS: Code [\_\_\_\_|\_\_\_\_] Name \_\_\_\_\_

006 DATE OF INTERVIEW: \_\_\ \_\_\_\_ \ \_\_\_\_

007 CHECKED BY SUPERVISOR: Signature \_\_\_\_\_ Date \_\_\_\_\_

**The HCWs questionnaire includes the following sections:**

Section 0 – Questionnaire identification data ((7) codes)

Section 1 – Background characteristics (9) Questions

Section 2 – Knowledge, believes, and attitudes. (28) Questions

Section 3 – Knowledge about vaccination against HBV and HDV (6) Questions

Section 4 – Past Medical History (5) Questions

Section 5- Occupational Exposure. (5) Questions

Section 6: infection control measures (10) Questions

**Total number of questions:** (63) Questions

**Section 1: Background characteristics**

No.	Questions and filters	Coding categories
Q1	Gender	1. Male 2. Female
Q2	Age/ years	
Q3	Original Residency	1. South 2. North 3. East 4. West 5. Central
Q4	Marital Status	1. Married 2. Not married 99. No Response
Q5	Educational Level	1. Illiterate 2. Khalwa 3. Primary 4. Secondary 5. Higher 6. Graduated

		7. Postgraduate 99. No Response
Q6	Occupation	1. Doctor 2. Nurse 3. Midwife 4. Lab +blood bank technicians 5. Labor 6. Theatre attendants 7. Manager 99. No Response
Q7	If you are a doctor, what is your classification?	1. Consultant 2. Registrar 3. Medical officer 4. House officer
Q8	What is your department?	1. Surgery 2. Obs. & Gyn. 3. Dentistry. 4. Others
Q9	Your duration of work in this hospital?	1. <b>Less</b> than 1year 2. 1 - 2 years 3. More than 2 – 5 years 4. More than 5 – 10 years 5. More than 10 – 20 years 6. More than 20 year 88. Don't know 99. no response

## Section 2 Knowledge, believe and attitude

No.	Questions and filters	Coding categories
Q10	<b>Have you ever heard about:</b>	
	1. <b>HBV</b>	1. Yes 2. No 88. Don't know 99. No response
	2. <b>HCV</b>	1. Yes 2. No 88. Don't know 99. No response
	3. <b>HDV</b>	1. Yes 2. No 88. Don't know 99. No response
Q11	<b>Is HBV transmitted by blood transfusion or blood products</b>	
	1. Yes 2. No 88. Don't know 99. No response	
	<b>Is HCV transmitted by blood transfusion or blood products</b>	
	1. Yes 2. No 88. Don't know 99. No response	
	<b>Is HDV transmitted by blood transfusion or blood products</b>	
	1. Yes 2. No 88. Don't know 99. No response	

Q12	<b>Can a pregnant woman infected with HBV transmit the virus to her unborn child?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can a pregnant woman infected with HCV transmit the virus to her unborn child?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can a pregnant woman infected with HDV transmit the virus to her unborn child?</b>  1. Yes      2. No      88. Don't know    99. No response
Q13	<b>Can infected woman with HBV transmit the virus to her newborn during labor?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can infected woman with HCV transmit the virus to her newborn during labor?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can infected woman with HDV transmit the virus to her newborn during labor?</b>  1. Yes      2. No      88. Don't know    99. No response
Q14	<b>Can infected woman with HBV transmit the virus to her newborn by breastfeeding?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can infected woman with HCV transmit the virus to her newborn by breastfeeding?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can infected woman with HDV transmit the virus to her newborn by breastfeeding?</b>  1. Yes      2. No      88. Don't know    99. No response
Q15	<b>Can HBV transmitted sexually?</b>  1. Yes      2. No      88. Don't know    99. No response
	<b>Can HCV transmitted sexually?</b>  1. Yes      2. No      88. Don't know    99. No response

	<p><b>Can HDV transmitted sexually?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q16	<p><b>Could sharp contaminated instrument transmit HBV infection?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Could sharp contaminated instrument transmit HCV infection?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Could sharp contaminated instrument transmit HDV infection?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q17	<p><b>Is HBV transmitted by eating or drinking contaminated food and water?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is HCV transmitted by eating or drinking contaminated food and water?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is HDV transmitted by eating or drinking contaminated food and water?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q18	<p><b>Is HBV transmitted by cough?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is HCV transmitted by cough?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is HDV transmitted by cough?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q19	<p><b>Is HBV transmitted by sharing razors?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is HCV transmitted by sharing razors?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>

	<b>Is HDV transmitted by sharing razors?</b>  1. Yes      2. No      88. Don't know      99. No response
Q20	<b>Do you think that healthy-looking HCWs could be a carrier of HBV?</b>  1. Yes      2. No      88. Don't know      99. No response
	<b>Do you think that healthy-looking HCWs could be a carrier of HCV?</b>  1. Yes      2. No      88. Don't know      99. No response
	<b>Do you think that healthy-looking HCWs could be a carrier of HDV?</b>  1. Yes      2. No      88. Don't know      99. No response
Q21	<b>Do you think that healthy-looking person could be a carrier of HBV?</b>  1. Yes      2. No      88. Don't know      99. No response
	<b>Do you think that healthy-looking person could be a carrier of HCV?</b>  1. Yes      2. No      88. Don't know      99. No response
	<b>Do you think that healthy-looking person could be a carrier of HDV?</b>  1. Yes      2. No      88. Don't know      99. No response
Q22	<b>Can people protect themselves from:</b>  <b>HBV?</b> 1. Yes      2. No      88. Don't know      99. No response  <b>HCV?</b> 1. Yes      2. No      88. Don't know      99. No response  <b>HDV?</b> 1. Yes      2. No      88. Don't know      99. No response
Q23	<b>Is protection from HBV can be by using gloves?</b>  1. Yes      2. No      88. Don't know      99. No response
	<b>Is protection from HCV can be by using gloves?</b>  1. Yes      2. No      88. Don't know      99. No response
	<b>Is protection from HDV can be by using gloves?</b>  1. Yes      2. No      88. Don't know      99. No response
Q24	<b>Is using sterile instrument and syringes protects from HBV transmission?</b>

	<p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is using sterile instrument and syringes protects from HCV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is using sterile instrument and syringes protects from HDV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q25	<p><b>Is screening of donated blood protects from HBV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is screening of donated blood protects from HCV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is screening of donated blood protects from HDV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q26	<p><b>Is screening of organ donor's blood protects from HBV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is screening of organ donor's blood protects from HCV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Is screening of organ donor's blood protects from HDV transmission?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q27	<p><b>Can people protect themselves by using HBV vaccine?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Can people protect themselves by using HCV vaccine?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
	<p><b>Can people protect themselves by using HDV vaccine?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>
Q28	<p><b>Can people protect themselves by drinking clean water?</b></p> <p>1. Yes    2. No    88. Don't know    99. No response</p>

Q29	<b>Can they protect themselves by cauterization?</b>  1. Yes      2. No      88. Don't know    99. No response
Q30	<b>How could pregnant woman reduce the risk of transmission of HBV to her unborn child?</b>  1. Take Immunoglobulin  2. Take Vaccination  88. Don't know  99. no response
Q31	<b>How could pregnant woman reduce the risk of transmission of HCV to her unborn child?</b>  1. Take Immunoglobulin  2. Take Vaccination  88. Don't know  99. no response
Q32	<b>How could pregnant woman reduce the risk of transmission of HDV to her unborn child?</b>  1. Take Immunoglobulin  2. Take Vaccination  88. Don't know  99. no response
Q33	<b>Did you voluntarily do:</b>  <b>HBV test?</b> 1. Yes      2. No      88. Don't know    99. No response  <b>if no go to question 35</b>
	<b>HCV test?</b> 1. Yes      2. No      88. Don't know    99. No response  <b>if no go to question 35</b>
	<b>HDV test?</b> 1. Yes      2. No      88. Don't know    99. No response  <b>if no go to question 35</b>



Q34	<p><b>When did you have your most recent,</b></p> <p><b>HBV test?</b>              Date [ ][ ]</p> <p><b>HCV test?</b>              Date [ ][ ]</p> <p><b>HDV test?</b>              Date [ ][ ]</p>
Q35	<p><b>Do you required having the test once in the past and you did not have it?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>
Q36	<p><b>Can people protect themselves by using personal protection? (e.g. Gloves, Goggles and Gowns)</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>
Q37	<p><b>Are unsafe injection practices one of sources of transmission of HBV?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>
	<p><b>Are unsafe injection practices one of sources of transmission of HCV?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>
	<p><b>Are unsafe injection practices one of sources of transmission of HDV?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>

### Section 3 – Knowledge about vaccination against HBV, HCV, HDV

No.	Questions and filters	Coding categories
Q38	<p><b>Is HBV infection prevented by a vaccine?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>	
	<p><b>Is HCV infection prevented by a vaccine?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>	
	<p><b>Is HDV infection prevented by a vaccine?</b></p> <p>1. Yes      2. No      88. Don't know    99. No response</p>	
Q39	<p><b>A. Number of vaccine doses of HBV</b></p> <p>1. One dose      2. Two doses      3. Three doses      4. Others( )</p> <p>88. Don't know    99. No response</p>	
	<p><b>B. Number of vaccine doses of HCV</b></p> <p>1. One dose      2. Two doses      3. Three doses      4. Others( )</p> <p>88. Don't know    99. No response</p>	

	<b>C. Number of vaccine doses of HDV</b> 1. One dose    2. Two doses    3. Three doses    4. Others( )  88. Don't know    99. No response
Q40	Have you ever been vaccinated against HBV?  1. Yes    2. No    88. Don't know    99. No response  If yes, when? Date [ ][ ] if no go to Q 42
	Have you ever been vaccinated against HCV?  1. Yes    2. No    88. Don't know    99. No response  If yes, when? Date [ ][ ] if no go to Q 42
	Have you ever been vaccinated against HDV?  1. Yes    2. No    88. Don't know    99. No response  If yes, when? Date [ ][ ] if no go to Q 42....
Q41	Source of vaccine  1. Inside the country    2. Outside the country
Q42	What do you know about the vaccine <input type="checkbox"/> HBV <input type="checkbox"/> HCV <input type="checkbox"/> HDV  1. I do not know about the vaccine 2. I do not know where to find it 3. Expensive 4. Not interested to be immunized. 5. Others.....

**Section 4: Past medical history of exposure to risk factors:**

No.	Questions and Filters	Coding categories
Q43	Have you ever been subjected to blood transfusion 1. Yes                      2. Never    88. Don't know    99. No response If yes, when? 1. Less than 45 days    2. More than 45 days	
Q44	Have you ever been subjected to surgical procedure 1. Yes                      2. Never    88. Don't know    99. No response If yes, when? 1. Less than 45 days    2. More than 45 days	

Q45	Have you ever been subjected to tattooing 1. Yes                      2. Never    88. Don't know    99. No response If yes, when? 1. Less than 45 days    2. More than 45 days
Q46	Have you ever been subjected to cautery 1. Yes    2. Never    88. Don't know    99. No response    If yes, when? 1. Less than 45 days    2. More than 45 days
Q47	Have you ever been having jaundice? 1. Yes        2. Never    88. Don't know    99. No response    If yes, at what age? 1. Below 30 years    2. Between 30-49 years    3. 50 years or more

#### Section 5: Exposure to occupational risk factors

No.	Questions and filters	Coding categories
Q48	Have you ever been experienced needle stick injury? 1. Yes    2. Never    88. Don't know    99. No response.    If yes, when? 1. Less than 45 days    2. More than 45 days	
Q49	Have you ever been exposed to injury with contaminated sharp instruments?. 1. Yes    2. Never    88. Don't know    99. No response.    If yes, when? 1. Less than 45 days    2. More than 45 days	
Q50	Have you ever been dealing with blood?. 1. Yes    2. Never    88. Don't know    99. No response.    If yes, when? 1. Less than 45 days    2. More than 45 days	
Q51	Have you ever been dealing with amniotic fluid during delivery event?. 1. Yes    2. Never    88. Don't know    99. No response.    If yes, when? 1. Less than 45 days    2. More than 45 days	
Q52	Have you ever been dealing with jaundiced patient? 1. Yes    2. Never    88. Don't know    99. No response.    If yes, when? 1. Less than 45 days    2. More than 45 days	

#### Section 6: infection control measures

Q53	Had you received formal training on infection control precautions  1. Yes    2. No    88. Don't know    99. No response
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Q54	Do you wash or decontaminate your hands before and after direct contact with patients?  1. Yes      2. No      88. Don't know    99. No response
Q55	Do you wash or decontaminate your hands after contact with blood, body fluid, secretions or excretion?  1. Yes      2. No      88. Don't know    99. No response
Q56	Do you wash or decontaminate your hands before handling an invasive devise (± gloves)?  1. Yes      2. No      88. Don't know    99. No response
Q57	Do you wash your hands before gloving and before leaving the examination room?. 1. Yes      2. No      88. Don't know    99. No response
Q58	Do you <b>wear gloves when</b> Touching blood and body fluids?  1. Yes      2. No      88. Don't know    99. No response
Q59	Do you <b>change</b> gloves between tasks and procedures on the same patients?  1. Yes      2. No      88. Don't know    99. No response
Q60	Do you remove gloves immediately after use before attending to another patients?  1. Yes      2. No      88. Don't know    99. No response
Q61	Do you <b>wear</b> surgical masks during procedures that are likely to generate splashes or sprays of blood or other body fluids?  1. Yes      2. No      88. Don't know    99. No response
Q62	Do you <b>wear</b> Gowns during procedures that are likely to generate splashes or sprays of blood or other body fluids?  1. Yes      2. No      88. Don't know    99. No response
Q63	Do you <b>wear</b> goggles during procedures that are likely to generate splashes or sprays of blood or other body fluids?  1. Yes      2. No      88. Don't know    99. No response

***That is the end of our questionnaire. Thank you very much for taking time to answer these questions. We appreciate your help.***