

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

| | |
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| 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 |

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| | | 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. Less 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 |
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| Q10 | Have you ever heard about: | |
| | 1. HBV | 1. Yes 2. No 88. Don't know 99. No response |
| | 2. HCV | 1. Yes 2. No 88. Don't know 99. No response |
| | 3. HDV | 1. Yes 2. No 88. Don't know 99. No response |
| Q11 | Is HBV transmitted by blood transfusion or blood products | |
| | 1. Yes 2. No 88. Don't know 99. No response | |
| | Is HCV transmitted by blood transfusion or blood products | |
| | 1. Yes 2. No 88. Don't know 99. No response | |
| | Is HDV transmitted by blood transfusion or blood products | |
| | 1. Yes 2. No 88. Don't know 99. No response | |

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

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

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

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

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

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| Q34 | <p>When did you have your most recent,</p> <p>HBV test? Date [][]</p> <p>HCV test? Date [][]</p> <p>HDV test? Date [][]</p> |
| Q35 | <p>Do you required having the test once in the past and you did not have it?</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> |
| Q36 | <p>Can people protect themselves by using personal protection? (e.g. Gloves, Goggles and Gowns)</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> |
| Q37 | <p>Are unsafe injection practices one of sources of transmission of HBV?</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> |
| | <p>Are unsafe injection practices one of sources of transmission of HCV?</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> |
| | <p>Are unsafe injection practices one of sources of transmission of HDV?</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>Is HBV infection prevented by a vaccine?</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> | |
| | <p>Is HCV infection prevented by a vaccine?</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> | |
| | <p>Is HDV infection prevented by a vaccine?</p> <p>1. Yes 2. No 88. Don't know 99. No response</p> | |
| Q39 | <p>A. Number of vaccine doses of HBV</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. Number of vaccine doses of HCV</p> <p>1. One dose 2. Two doses 3. Three doses 4. Others()</p> <p>88. Don't know 99. No response</p> | |

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| | C. Number of vaccine doses of HDV 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 | |

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| 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

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| 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 wear gloves when Touching blood and body fluids? 1. Yes 2. No 88. Don't know 99. No response |
| Q59 | Do you change 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 wear 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 wear 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 wear 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.