**A survey on Knowledge, Attitudes and Practice about antibiotic prescribing and resistance among medical practitioners in Kenyan local hospitals.**

**\*You are kindly requested to answer the questionnaire honestly and completely independent of cross-consultations and/or verifications.**

**Survey quality control**

Date of interview: ………………………………………………. Start time................... End time...........................

Interviewed by: .........................................................Approved.....................................................................

Name of the Hospital…………………………………………… Respondent’s code…………………………………………………….

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| **QUESTIONS** | **ANSWERS** |
| **PART 1: GENERAL QUESTIONS** |  |
| *1. For how many years, since you graduated from medical school*  */medical training College, have you been working in a hospital*  *(indicate cumulative years if worked in different hospitals)* | * *I am on attachment* * *I am a trainee in medicine (internship)* * *less than one year* * *1-3 years* * *4 – 6 years* * *7 years and more* |
| *2. In which department do you work?* | * *Medicine /Emergency* o *Surgery* o *Paediatrics* * *Obstetrics and Gynaecology* o *Outpatient/A/E* o *Pharmacy* * *Other: …………………………………………………* |
| *3. Designation (e.g. Consultant, Pharmacist, Nurse, etc.)* | *……………………………………………………………………* |
| **PART 2: PRESCRIPTION PATTERN (PRACTICE)** |  |
| *4. On average for every 10 patients how many do you prescribe antibiotic to?* | * *All 10 patients* * *6-9 patients* * *5 patients* * *1-4 patients* * *None* |

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| *5. To whom do you prescribe?* | * *Hospitalized patients* * *Patients at outpatient department* * *Patients in out-patient department and hospitalised patients* |
| *6. Do you follow any antibiotic prescription guidelines*? | * *Yes* * *No* |
| **PART 3: AWARENESS AND ATTITUDE ON THE CURRENT SCOPE OF ANTIBIOTIC RESISTANCE** | |
| *7. Antibiotic resistance is a world-wide problem* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *8. Antibiotic resistance is a problem in my country* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *9. Antibiotic resistance is a problem in my hospital* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *10. Antibiotics are overused in my hospital and in other hospitals of my country Kenya* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *11. Patients’ demands for antibiotics contribute to the overuse of antibiotics in the hospital* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |

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| *12. I think over-the-counter (OTC) medicines contribute to antibiotic misuse and subsequent antibiotic resistance* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *13. My awareness on local antibiotic resistance pattern is?* | * *Excellent* * *Good* * *Average* * *Very little* * *None* |
| **PART 4: CHOICE OF ANTIBIOTIC** | |
| *14. How confident are you about your knowledge of antibiotics?* | * *Very confident* * *Confident* * *A bit confident* * *Neutral/ I have no idea* * *Not confident at all* |
| *15. What is your confidence level in prescribing antibiotics* | * *Very confident* * *Confident* * *A bit confident* * *Neutral/ I have no idea* * *Not confident at all* |
| *16. How often do you check your decisions on antibiotic prescribing with a colleague?* | * *Never* * *Sometimes* * *Half of the times* * *Mostly* * *Always* |
| *17. If you do consult a senior colleague, how frequent does he/she recommend prescription of a different antibiotic?* | * *Never* * *Sometimes* * *Half of the times* * *Mostly* * *Always* |

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| *18. How often do you depend on antibiotic sensitivity data from the laboratory to vary your prescription* | * *Never* * *Sometimes* * *Half of the times* * *Mostly* * *Always* |
| **PART 5: SOURCE OF INFORMATION ON ANTIBIOTICS PRESCRIBING AND RESISTANCE** | |
| *19. During the past year, how many courses or trainings did you receive relating to antibiotics?* | * *0* * *1-3* * *4-6* * *6-10* * *>10* |
| *20. Among the sources of information about antibiotics listed below, which one did you consult in the last month?* | |
| ▪ *Information supplied by pharmaceutical companies* | * *Yes* * *No* |
| ▪ *Knowledge from training institutions* | * *Yes* * *No* |
| ▪ *Internet* | * *Yes* * *No* |
| ▪ *National guideline for empiric antimicrobial therapy* | * *Yes* * *No* |
| ▪ *The World Health Organization’s (WHO) guidelines for treatment of bacterial diseases* | * *Yes* * *No* |
| *21.* ***How do you appreciate the sources of information about antibiotics listed below?*** | |
| ▪ *Information supplied by pharmaceutical companies* | * *Very useful* * *Useful* * *Not at all useful* * *I do not know* |

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| ▪ *Information from training institution* | * *Very useful* * *Useful* * *Not at all useful* * *I do not know* |
| ▪ *Internet* | * *Very useful* * *Useful* * *Not at all useful* * *I do not know* |
| ▪ *National guideline for empiric antimicrobial therapy* | * *Very useful* * *Useful* * *Not at all useful* * *I do not know* |
| ▪ *The World Health Organization’s (WHO) guidelines for treatment of bacterial diseases* | * *Very useful* * *Useful* * *Not at all useful* * *I do not know* |
| ▪ *Does your facility have a frequently released antibiogram?* | * *Yes* * *No* |
| ▪ *If yes, how useful is the antibiogram to you* | * *Very useful* * *Useful* * *Not at all useful* * *I do not know* |
| **PART 6: DECISION ABOUT ANTIBIOTIC PRESCRIBING** | |
| *22. When one prescribes an antibiotic, it is important to know the resistance pattern of the bacteria in the local setting* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *23. My choice of prescribing antibiotic is more influenced by the availability of antibiotics than by the cause of the infection* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |

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| *24. My choice of prescribing antibiotic is more influenced by the cost of the drug to the patient* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *25. I’m always concerned about effectiveness and quality of an antibiotic when making my prescribing decisions* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *26. In regard to antibiotic guidelines, local guidelines are more useful than international guidelines* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *27. Antibiotic guidelines and antibiotic committees are rather obstacles than a help* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| *28. I welcome the implementation of a training program about antibiotics* | * *I strongly agree* * *I agree* * *Neutral* * *I disagree* * *I strongly disagree* |
| **PART 7: KNOWLEDGE ON USE OF ANTIBIOTICS** | |
| *29. A 4-year-old child had diarrhoea in the last 4 days (3 stools daily). She had no fever during the past days nor at consultation. What is your treatment choice?* | * *Amoxicillin orally* * *Trimethoprim/sulphamethoxazole orally* * *Amoxicillin/clavulanic acid orally* * *Oral rehydration salts with no antibiotic* |

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| *30. A 6-year-old child has fever (38°C), nasal discharge and a painful throat for two days. At visual inspection, the thro reddish. What is your treatment choice?* | | *at is* | * *Trimethoprim/sulphamethoxazole orally* * *Amoxicillin orally* * *Amoxicillin/clavulanic acid orally* * *No antibiotic* |
| *31. During ward round, you have seen two patients with imp renal function.*   * *Patient A is a 68-year-old male with cellulitis in the lower He is administered clindamycin.* * *Patient B is a 64-year-old woman with diabetes who recei treatment for sepsis with ceftriaxone empirically.*   *In which case will you need to adjust the antibiotic dose?* | | *aired*  *limb. ved* | * *Patient A* * *Patient B* * *Patient A & B* * *Neither patient A nor patient B* |
| *32. Which one of the following antibiotics may be safely give during the first trimester of pregnancy?* | | *n* | * *Amoxicillin* * *Ciprofloxacin* * *Gentamicin* |
| *33. Which of the following antibiotics has the best activity ag anaerobes?* | | *ainst* | * *Ciprofloxacin* * *Metronidazole* * *Trimethoprim/sulphamethoxazole* |
| *34. Methicillin resistant - Staphylococcus aureus is susceptibl* | | *e to:* | * *Amoxicillin clavulanic acid* * *Cefotaxime* * *Ceftriaxone* * *None of these antibiotics* |
| *35. Which of the following antibiotics most effectively crosse blood-brain barrier?* | | *s the* | * *Clindamycin* * *Ceftriaxone* * *Vancomycin* |
| *36. Aminoglycoside antibiotics such as gentamicin are most when they are administered as follows:* | | *active* | * *Orally, three times daily* * *Parenterally, once daily* * *Parenterally, three times daily* |
|  | **Thank you very much for your kind and honest participation** |  | |