MALARIA DIAGNOSTICS QUALITY ASSURANCE CHECKLIST

| ame of health facility | | |
|--------------------------------|--------------------|-------------------------------|
| City/Town | | |
| County | | |
| _evel of health facility | Level 2 | Level 4 Level 6 |
| | Level 3 | Level 5 |
| Ownership | Public Faith Based | PrivateOthersMilitary Specify |
| Address (P.O. Box) | | |
| Telephone/Fax | | |
| E-mail | | |
| Head of health facility | | |
| Telephone/Fax | | |
| E-mail | | |
| Head of laboratory | | |
| Telephone/Fax | | |
| E-mail | | |
| Hrs of operation HF: weekdays | | |
| Hrs of operation lab: weekdays | | |
| Date of visit (Month/Year) | | |
| Supervision Round | 1 2 | 3 4 |

| 2. Human Resources - Laboratory Staf | ff | | | | | |
|--|--|-----------|------------------------------|--|--|--|
| Number of laboratory staff: Note the | Number of laboratory staff: Note the <u>number</u> of full-time, part-time or casual employees | | | | | |
| Tick "N/A" if staff ty | Tick "N/A" if staff type is not employed at this facility | | | | | |
| | Full-time | Part-time | Casual N/A | | | |
| Laboratory technologist | | | | | | |
| Laboratory technician | | | | | | |
| Students on attachment | | | | | | |
| Number of staff above that perform malar | ria 🗔 | | | | | |
| diagnostics | | | | | | |
| Number of support staff | | | | | | |
| | | | | | | |
| 3. Refresher Training of Laboratory Sta | aff | | | | | |
| Laboratory Staff | | | | | | |
| Number of laboratory staff who atten | | _ | Number trained | | | |
| laboratory malaria diagnostics (micro | , | • | No trainings attended (tick) | | | |
| previous calendar year (Janua | , | L | (, | | | |
| Name of course attended or certification r | received | | | | | |
| Who provided the training? | (Month/Ye | Date | Duration in hours | | | |
| who provided the training: | (IVIOITITI) T | zai) | | | | |
| 2. Name of course attended or certification r | received | | | | | |
| 2. Name of coarse attended of certification in | CCCIVCU | Date | Duration in hours | | | |
| Who provided the training? | (Month/Ye | ear) | <u>_</u> | | | |
| | | | | | | |
| 3. Name of course attended or certification r | eceived | Date | Duration in hours | | | |
| Who provided the training? | (Month/Ye | | Duration in nours | | | |
| | | · | | | | |
| 4. Water and power supply | | | | | | |
| Water Supply | | | | | | |
| Rain water | Yes | No | | | | |
| Well/Borehole | Yes | No | | | | |
| Creek/stream/river | Yes | No | | | | |
| Bottled water | Yes | No | | | | |
| Is there any problem with water supply? | Yes | No | | | | |
| Power supply | Yes | No | | | | |
| Main | Yes | No | | | | |
| Generator | Yes | No | | | | |
| Solar | Yes | No | | | | |
| Fuctional back-up generator | Yes | No | | | | |
| Do power cuts interfere with the ability to perform laboratory malaria diagnosis? Yes No | | | | | | |
| Is the number of power sockets in the lab | sufficient? | Yes | No | | | |
| Is there any problem with power supply? | | Yes | No | | | |

| If yes comment | | | | | | |
|--|-----------|------------------------------------|------------|---------------------|------------|--|
| . Laboratory Equipment | | | | | | |
| Number of functional microscopes in us | se in the | health facil | ty | | | |
| Total number of microscopes (functional AND non-functional) | | | | | | |
| Is care and maintenance of microscopes | s routine | ly done by | aborator | y staff ? | | |
| Yes No Do | on't Knov | v | | | | |
| Is service and repairs of microscope | s perfor | med by en | gineers | or contracto | rs? Yes No | |
| If yes, when was the last service or repair performed? | | | | | | |
| From the availbale records, what is t | he frequ | uency of se | ervice/rep | pairs? | | |
| Frequency Monthly Quarterly Semi-annually Annually Unknown Does not occur Date(Month/Year) | | | | | | |
| Comment | | | | | | |
| Weighing scale Functional | | unctional | | | | |
| pH meter Functional | NON-f | unctional | | | | |
| | | | | | | |
| Minor Laboratory Equipment | | | | | | |
| Tick the box that most closely app | | | | | | |
| Staining racks | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Staining vessels | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Slide drying racks | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Pipettes | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Timers | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Tally counters | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Slides storage boxes | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Graduated cyclinder (50-500mL) | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Calculators | 0 | 1-2 | 3-5 | 6-9 | 10+ | |
| Stock-outs | | | | | | |
| Did this laboratory experience a stoo | k-out la | sting 7 or i | more | | Yes | |
| consecutive days during the last thr | | • | evented t | he | No | |
| laboratory from performing malaria diagnostics? Unkwnown | | | | | | |
| If this facility experienced a stock-out, please tick which materials listed below were out of stock | | | | | | |
| RDTs Out of stock Microscope Slides Out of stock | | ncets | - | Out of st Out of st | | |
| Immersion oil Out of stock | | Methanol Ethanol (96% methylated) | | Out of st | | |
| Pensils Out of stock | | Soap | | Out of stock | | |
| Gloves Out of stock | | tergents | | Out of stock | | |
| pH paper Out of stock | | sinfectants | - | Out of st | | |
| Giemsa stain A Out of stock | Le | ns tissue | | Out of stock | | |
| Field stain A Out of stock Lens cleaning fluid Out of stock | | | | | | |

| Field stain B | Out of stock | Cotton | wool | Out of stoo | |
|--|---|---------------|-----------------|--------------------|------------|
| Filter papers | Out of stock | Gauze | | Out of stoo | :k |
| Cont' of No.7 | | | | | |
| | ary source of this fac | lity's labora | atory supplie | es and consuma | bles? |
| Hospital procu Direct purchase | | | | | |
| 2. Direct purchas | | | , | | |
| · | does this facility use agents and chemical | | boratory | | |
| 1. Tendering | agents and chemical | 5? | | | |
| 2. Cash | | | H | | |
| | system (District/Nati | onal) | | | |
| 4.Others/Specify | · · · · · · · · · · · · · · · · · · · | | | | |
| 8. Malaria Referenc | | | | | |
| | you can verify that the | ne following | n materials a | re physically ava | ailahle |
| Standard Operating | <u> </u> | ie ioliowing | j iliateriais a | ie pilysically ava | mable |
| Collection of bloc | | Yes | No II | f "yes",location | |
| | ick and thin blood filn | | | f "yes",location | |
| Preparation of bu | | Yes | | f "yes",location | |
| Preparation of G | | Yes | | f "yes",location | |
| Preparation of Fi | | Yes | | f "yes",location | |
| | n blood films with Gie | | | f "yes",location | |
| Examination and | | Yes | | f "yes",location | |
| Slide selection for | | Yes | | f "yes",location | |
| | aintenance of micros | | | f "yes",location | |
| | agnostic Tests (RDTs | == | | f "yes",location | |
| | peen updated within t | | | Yes No | Unknown |
| | ocorr apaatoa withiir t | .110 past 12 | | 100 110 | Ominown |
| Policies/Guidelines Malaria Policy National Guidelines for Laboratory Diagnosis of Malaria Guidelines for Diagnosis, Treatment and Prevention of Malaria in Kenya Malaria Quality Assurance Manual Others/Specify | | | | | |
| Bench / Job Aid Malaria microsco | _ | Yes | No II | f "yes",location | |
| Sample collection | | Yes | | f "yes",location | |
| Smear preparation | | Yes | | f "yes",location | |
| Staining | | Yes | | f "yes",location | |
| Smear examinati | ion and reporting | Yes | No If | f "yes",location | |
| Slide selection a | nd validation | Yes | No I | f "yes",location | |
| Malaria RDTs Yes No If "yes",location | | | | | |
| Have the bench/j | job aids been update | d within pa | st 12 month | s? Yes | No Unknown |

| 9. Internal Quality Assurance | | | | | | |
|---|--|--|--|--|--|--|
| Are positive control slides available for testing new batches of stal | n? yes No Unknown | | | | | |
| Are standards used to calibrate pH meter? | yes No Unknown | | | | | |
| Are stained slides rechecked by a person in the laboratory? | yes No Unknown | | | | | |
| Are results from QA exercises recorded in a register? | yes No Unknown | | | | | |
| Are slides stored for rereading? | yes No Unknown | | | | | |
| Are slides stored in slide boxes? | yes No Unknown | | | | | |
| 10. External Quality Assurance Does the laboratory participate in a malaria EQA scheme? Yes No Name/affiliation of monitors Date of last validation (Month/Year) | | | | | | |
| Does the laboratory participate in any other EQA schemes (HIV/TB or others)? Yes | | | | | | |
| Does the laboratory receive feedback for its EQA schemes? 11. Turnaround Time for Malaria Test Results | Yes No Unknown | | | | | |
| Test type 1. RDT Blood Slide 2. RDT Blood Slide 3. RDT Blood Slide Average turnaround time in minutes: RDT Average turnaround time in minutes: BS | | | | | | |
| 12. Observation: Preparation of thick and thin blood smears Observation 1 Procedure 1. Patient preparation [6] 2. Specimen collection (finger stick) [5] | Comments | | | | | |
| 3. Specimen collection (venipuncture) [7] 4. Spreading thin films [6] 5. Spreading thick films [5] | cate the stain used Giemsa Field | | | | | |
| 9. Slide storage [1] | Both | | | | | |

| 13. Observation: Staining and Reading of Thick and Thin Bloo | d Films |
|--|-------------------------|
| Observation 1 | |
| Procedure Tasks Correct | Comments |
| Preparation of of Giemsa working solution [3] | |
| 2a. Giemsa staining procedure[4] | |
| 2b. Field staining procedure [5] | |
| 3. Slide drying [1] | |
| 4. Slide examination [5] | |
| 5. Result reporting [4] | Indicate the stain used |
| Slide cleaning, slide & microscope storage [4] | Giemsa |
| , | Field |
| | Both |
| 14. Observation: RDT | |
| Observation 1 | |
| <u>Procedure</u> <u>Tasks Correct</u> | <u>:</u> |
| 1. RDT preparation [6] | Comments |
| 2. Patient preparation [5] | |
| 3. Blood collection + dispensing [5] | |
| 4. RDT procedure + reading results [5] | |
| 5. Recording results [2] | |
| 6. Disposal of infectious material [2] | |
| | |
| 15. Laboratory Safety Practices 1. Is there an SOP for PEP? | |
| | /es |
| | /es No |
| | es No |
| | /es No |
| | res No No |
| 16. Issues Identified and Recommendations | |
| Guidance for the Outreach Training and Suppor | t Supervision Report |
| Please attach a copy of your summary report to the complete | |
| to NPHLS/NMRL/DOMC No more than 1-2 pages - preferably typed, otherwis | se hand written in pen |
| I. General Information | , c |
| | |
| Include the name(s) of the Supervisor(s) conducting the | site visit |
| Include the names of the facilities being visited | site visit |
| Include the names of the facilities being visited Include the dates of the visits | site visit |
| Include the names of the facilities being visited Include the dates of the visits II. Narrative | |
| Include the names of the facilities being visited Include the dates of the visits II. Narrative a. describe specific corrective action taken during your visit | t; |
| Include the names of the facilities being visited Include the dates of the visits II. Narrative | t; |

| of the OTSS d. propose red | S process commendations fo | or improvement | |
|-------------------------------|-------------------------------|----------------------------|-----------------------|
| 17. Signatures | | | |
| | | Supervises. | |
| Head of health facility | | Supervisor | |
| | | _ | |
| | | | |
| | | Supervisor' | s place of employment |
| Head of laboratory | | Tel | E-mail |
| | | | |
| Signature | Date | Signature | Date |
| Malaria Slide Valid | ation _For QA | Officers and Reference Lal | boratory Centers |
| Lab Results | Ref Lab Results | Agreement / Disagreement | Lab Ref Lab |
| 1. Pos Neg | Pos | TP FP TN FN | |
| 2. Pos Neg | Pos | TP FP TN FN | |
| 3. Pos Neg | Pos | TP FP TN FN | |
| 4. Pos Neg | Pos Neg | TP FP TN FN | |
| 5. Pos Neg | Pos | TP FP TN FN | |
| 6. Pos Neg | Pos | TP FP TN FN | |
| 7. Pos Neg | Pos | TP FP TN FN | |
| 8. Pos Neg | Pos | TP FP TN FN | |
| 9. Pos Neg | Pos | TP FP TN FN | |
| 10. Pos Neg | Pos | TP FP TN FN | |
| Total TP | Total FP | Total TN Total | I FN |
| Total number of slide | es agreed (total TP | + total TN) | |

| Percent agreement (Total TP + Total TN) * 100 / Total number of slides reread | | | | | | |
|--|--|--|--|--|--|--|
| Refer to Laboratory Register Refer to Laboratory Register | | | | | | |
| Prescriber Adherence with Negative Malarial Tests Test type Antimalarial prescribed | | | | | | |
| 1. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 2. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 3. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 4. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 5. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 6. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 7. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 8. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 9. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| 10. RDT Blood Slide Yes No If prescribed, name of drug | | | | | | |
| Total number of negative RDTs | | | | | | |
| Total number of negative blood slides Total number of patients with a negative malaria test and an antimalarial medicine prescribed | | | | | | |

| Total number of patients with a negative malaria test and NO antimalarial medicine prescribed | |
|---|--|
| | |
| | |