

AMR TECHNICAL SCORECARD

HUMAN

Laboratory Clinical Interface Antimicrobial Resistance Assessment Scorecard

Version 3.2 – August 2021

IN PARTNERSHIP WITH

FIND 
Diagnosis for all

ASLM
AFRICAN SOCIETY FOR LABORATORY MEDICINE

Score

Section	Total points possible	Current Audit		Previous audit	
		Date:		Date:	
		Current audit score		Previous audit score	
1. Clinical Facility Documents, Policies & Structures	21		%		%
2. Department Documents, Policies & Structures	8		%		%
3. Sample Requisition	5		%		%
4. Sample Collection & Transport GENERAL	4		%		%
5. Sample Laboratory Result Review & Patient Management	8		%		%
Laboratory Clinical Interface Sub-Total	46		%		%

Sample Collection & Transport:	Total points possible	Current audit score		Previous audit score	
BLOOD CULTURE	34		/ 80 = _____ %		%
URINE CULTURE	12		/ 58 = _____ %		%
FECES CULTURE	8		/ 54 = _____ %		%
Laboratory Clinical Interface Total			/ 100 = _____ %		

A. General Information

Name of Assessor(s)		
Title & organization of Assessor		
Name of clinical facility being assessed		
Type of clinical facility	<input type="checkbox"/> <input type="checkbox"/> PHC <input type="checkbox"/> <input type="checkbox"/> District Hospital <input type="checkbox"/> <input type="checkbox"/> Regional Hospital <input type="checkbox"/> <input type="checkbox"/> Tertiary / Referral Hospital	<input type="checkbox"/> <input type="checkbox"/> Public <input type="checkbox"/> <input type="checkbox"/> Private <input type="checkbox"/> <input type="checkbox"/> Academic <input type="checkbox"/> <input type="checkbox"/> NGO
Number of beds?		
Type of services offered	<input type="checkbox"/> <input type="checkbox"/> Medical <input type="checkbox"/> <input type="checkbox"/> Surgical <input type="checkbox"/> <input type="checkbox"/> Pediatrics <input type="checkbox"/> <input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> <input type="checkbox"/> Intensive Care Unit <input type="checkbox"/> <input type="checkbox"/> Obstetrics / Gynae <input type="checkbox"/> <input type="checkbox"/> Emergency / Trauma
How many other clinical facilities (e.g. hospitals or clinics) does this clinical facility serve?		
Location of clinical facility being assessed (City/Town, District and Country)		
Contact details for person at clinical facility		
Name		
Position		
Qualification		
Email		
Phone		
Date of last assessment visit		
Date of the current assessment visit		

B. Clinical Site Assessment

Section 1: Clinical Facility Documents, Policies & Structures

The following section of the checklist is the same for all departments assessed. Complete this section only once if evaluating multiple departments during one assessment. The score for this section will apply to all departments being evaluated.

Number	Standard		NA	Y	P	N	Comments	Score
LC1.1	F1 / U1 / B1	Does the clinical facility have an oversight committee that revises treatment guidelines and medicines formulary and/or stewardship practices based on cumulative AST antibiograms, pharmacy antibiotic usage data and the outcomes from stewardship ward rounds?						5
		Has an oversight committee been established?						
		Does the committee carry out essential functions including:						
		1. Develop/revise treatment guidelines						
		2. Use cumulative AST data to inform guidelines						
		3. Review antibiotic consumption data						
		4. Review data from AMS rounds						
LC1.2	F2 / U2 / B2	Does the clinical facility have a "Laboratory Handbook" which describes specimen collection, storage, and transportation of samples? Does the "Laboratory Handbook" state:						5
		Consent should be obtained before collection of feces, urine or blood for culture						
		Samples should be collected using recommended precautions/aseptic techniques as applicable						
		Minimum of 1g of feces should be collected for feces culture						
		Urine and blood should be collected before administration of antibiotics						

AMR TECHNICAL SCORECARD

Laboratory Clinical Interface Antimicrobial Resistance
Assessment Scorecard

Number	Standard		NA	Y	P	N	Comments	Score
		A minimum of 3 mL urine should be collected for urine culture						
		Handwashing should be performed prior to performing blood collection for culture						
		Hands should be disinfected prior to performing a blood culture						
		Sterile gloves should be used when performing a blood culture						
		Blood cultures should be drawn from peripheral sites						
		Minimum of 2 and maximum of 3 blood cultures should be drawn within 24 hours						
		Serial blood cultures should be collected from separate venipuncture sites						
		Puncture site should be cleaned properly as per manufacturer recommended technique and using appropriate disinfectant						
		Bottle-top should be disinfected and disinfectant should be allowed to dry prior to inoculation						
		Needles should be exchanged between blood culture collection and inoculation of blood culture bottles						
		The volume of blood collected should follow the manufacturer's recommendations: typically 10 mL per bottle for adults, 1-3 mL per bottle for children						
LC1.3		Collection containers for feces, urine & blood should be correctly labelled						2
LC1.4	F3	Do the facility treatment guidelines include requirement to do faecal culture if there is dysentery, suspicion of a public health threat / outbreak or if there are associated signs of systemic infection?						2
LC1.5	U3	Do the facility treatment guidelines include requirement						2

Number	Standard		NA	Y	P	N	Comments	Score
		to do urine culture if there are clinical indications such as suspected urinary tract infection; systemic sepsis without a clear focus or asymptomatic bacteriuria in pregnancy?						
LC1.6	B3	Do the facility treatment guidelines include requirement to do blood culture with clinical suspicion of blood stream infection?						2
LC1.7	F8 / U9 / B21	Does the laboratory request form include:						3
		Patient identifiers						
		Site name						
		Date of admission						
		Date & time of collection						
		Clinical information regarding suspected diagnosis						
		Contact details of requesting doctor						
Section 1: Clinical Facility Documents, Policies & Structures Sub-Total								21

Department / ward assessed: _____

Section 2: Department Documents, Policies & Structures

Number	Standard		NA	Y	P	N	Comments	Score
LC2.1	F1 / U1 / B1	Is a copy of the current treatment guidelines available in this ward or department?						3
LC2.2	F17 / U19 / B30	Is there evidence that the ward or department actively monitors test results for patterns suggestive of nosocomial outbreaks or hospital acquired infections?						5
		Does the ward or department engage the laboratory if there is suggestive of nosocomial outbreaks or hospital acquired infections?						
		Do the ward or						

AMR TECHNICAL SCORECARD

Laboratory Clinical Interface Antimicrobial Resistance
Assessment Scorecard

Number	Standard		NA	Y	P	N	Comments	Score
		department clinical staff and laboratory staff regularly meet (at least quarterly) to troubleshoot gaps in laboratory-clinical linkages, including specimen collection, referral, interpretation and reporting?						
Section 2: Department Documents, Policies & Structures Sub-Total								8

Section 3: Sample Requisition

Number	Standard		NA	Y	P	N	Comments	Score
LC3.1	F2 / U2 / B2	Is a "Laboratory Handbook" which describes specimen collection, storage, and transportation of samples available to clinical staff in the ward or department?						2
LC3.2	F3 & F9 / U3 &	Is consent obtained before performing blood, urine or feces culture?						2
LC3.3	U10 / B4 & B22	Is sample collection documented in the clinical notes while performing blood, urine or feces culture?						2
Section 3: Sample Requisition Sub-Total								6

Section 4: Sample Collection & Transport

Number	Standard		NA	Y	P	N	Comments	Score
LC4.1	F7 / U9 / B20	Are blood, urine & feces culture containers correctly labelled and matched with lab request form before sending to the laboratory?						2
LC4.2	F11 / U13 / B24	Are samples for blood, urine & feces culture delivered to the laboratory as soon as possible and within the recommended time periods for each sample?						2
Section 4: Sample Collection & Transport GENERAL Sub-Total								4

Blood culture								
Number	Standard		NA	Y	P	N	Comment	Score
LC4.3	B3	Is blood culture requested if there is a clinical suspicion of bloodstream infection?						2
	B5	Are blood cultures collected before administration of antibiotics?						2
		Is the history of any antibiotics taken during the current episode of illness/infection specifically requested and recorded?						
	B6	Is handwashing performed prior to performing a blood culture?						2
	B7	Are hands disinfected prior to performing a blood culture?						2
	B8	Are sterile gloves used when performing a blood culture?						2
	B9	Are blood cultures drawn from peripheral sites?						2
	B10	Are serial blood culture samples collected from separate venipuncture sites?						2
	B11	Is the puncture site cleaned using an appropriate disinfectant?						2
	B12	Is the skin disinfectant allowed time to dry before inserting the needle?						2
	B13	Are blood culture bottle tops disinfected prior to inoculation?						2
	B14	Is the bottle-top disinfectant allowed to dry prior to inoculation?						2
	B15	Are needles exchanged between blood culture collection and inoculation of blood culture bottles?						2
	B16	Are blood culture bottles inoculated first, if blood is collected for other tests?						2
	B17	Is a minimum of 2 and a maximum of 3 blood cultures drawn within 24 hours?						2
	B18	Are aerobic blood culture bottles used in a resource-limited setting?						2
	B19	Is a minimum of 20 mL of blood (10 mL per bottle) collected for						2

AMR TECHNICAL SCORECARD

Laboratory Clinical Interface Antimicrobial Resistance
Assessment Scorecard

Blood culture								
Number	Standard		NA	Y	P	N	Comment	Score
		each blood culture?						
	B23	Are blood culture bottles stored at room temperature if there is a delay in transporting them to the laboratory?						2
Section 4: Sample Collection & Transport BLOOD CULTURE Sub-Total								34

Urine culture								
Number	Standard		NA	Y	P	N	Comment	Score
LC4.4	U3	Is urine culture performed if there are clinical indications such as suspected urinary tract infection; systemic sepsis without a clear focus or asymptomatic bacteriuria in pregnancy?						2
	U5	Is urine collected before administration of antibiotics?						2
	U6	Are clinical staff available to advise patients on the correct procedure for mid-stream urine collection?						2
	U7	Do clinical staff use sterile techniques for collecting suprapubic urine samples?						2
	U8	Is a minimum of 3 mL urine collected for urine culture?						2
	U12	Is urine for culture stored in a fridge (2-8 degrees C) if there is a delay in transporting it to the laboratory?						2
Section 4: Sample Collection & Transport URINE CULTURE Sub-Total								12

Feces culture								
Number	Standard		NA	Y	P	N	Comment	Score
LC4.5	F3	Is feces culture performed if there is dysentery, suspicion of a public health threat / outbreak or if there are associated signs of systemic infection?						2
	F5	Is feces collected using aseptic technique?						2
	F6	Is a minimum of 1 g of feces collected for feces culture?						2
	F10	Is feces for culture stored in a fridge (2-8 degrees C) if there is a delay in transporting it to the laboratory?						2
Section 4: Sample Collection & Transport FECES CULTURE Sub-Total								8

Section 5: Laboratory Result Review & Patient Management

Number	Standard		N A	Y	P	N	Comment	Score
LC5.1	F14 / U15 / B27	Is there evidence that laboratory test results are promptly received, filed & reported?						3
		Is there evidence that laboratory test results are placed in the patient folder?						
		Is there evidence that critical call outs regarding patients test results received from lab are promptly communicated to the clinician/wards and documented?						
LC5.2	F16 / U17 / B29	Is there evidence that antibiotic treatment is revised (escalation / substitution / addition / de-escalation / termination of antibiotics) based on the laboratory AST result?						5
		Does antibiotic treatment follow the clinical sites prescriber guidelines for common medical conditions?						
		Is antibiotic treatment consistent with the medicines formulary?						
Section 5: Laboratory Result Review & Patient Management Sub-Total								8

The Antimicrobial Resistance (AMR) Laboratory Quality Scorecard was developed in collaboration with and support from Becton Dickinson and Company (BD)



Africa Centres for Disease Control and Prevention (Africa CDC),
African Union Commission
Roosevelt Street W21 K19, Addis Ababa, Ethiopia