

Stepwise Laboratory (Quality) Improvement Process Towards Accreditation (SLIPTA) Checklist

For Clinical and Public Health Laboratories

1.0 INTRODUCTION

Laboratory services are an essential component in the diagnosis and treatment of patients infected with the human immunodeficiency virus (HIV), malaria, *Mycobacterium tuberculosis* (TB), sexually transmitted diseases (STDs), and other infectious diseases. Presently, the laboratory infrastructure and test quality for all types of clinical laboratories remain in its nascent stages in most countries in Africa. Consequently, there is an urgent need to strengthen laboratory systems and services. The establishment of a process by which laboratories can achieve accreditation at international standards is an invaluable tool for countries to improve the quality of laboratory services.

In accordance with WHO's core functions of setting standards and building institutional capacity, WHO-AFRO has established the **Stepwise Laboratory (Quality) Improvement Process Towards Accreditation (SLIPTA)** to strengthen laboratory systems of its Member States. The **Stepwise Laboratory (Quality) Improvement Process Towards Accreditation (SLIPTA)** is a framework for improving quality of public health laboratories in developing countries to achieve ISO 15189 standards. It is a process that enables laboratories to develop and document their ability to detect, identify, and promptly report all diseases of public health significance that may be present in clinical specimens. This initiative was spearheaded by a number of critical resolutions, including Resolution AFR/RC58/R2 on Public Health Laboratory Strengthening, adopted by the Member States during the 58th session of the Regional Committee in September 2008 in Yaoundé, Cameroon, and the Maputo Declaration to strengthen laboratory systems. This quality improvement process towards accreditation further provides a learning opportunity and pathway for continuous improvement, a mechanism for identifying resource and training needs, a measure of progress, and a link to the WHO-AFRO National Health Laboratory Service Networks.

Clinical, public health, and reference laboratories participating in the **Stepwise Laboratory (Quality) Improvement Process Towards Accreditation (SLIPTA)** are reviewed bi-annually. Recognition is given for the upcoming calendar year based on progress towards meeting requirements set by international standards and on laboratory performance during the 12 months preceding the SLIPTA

audit, relying on complete and accurate data, usually from the past 1-13 months to 1 month prior to evaluation.

2.0 Scope

This checklist specifies requirements for quality and competency aimed to develop and improve laboratory services to raise quality to established national standards. The elements of this checklist are based on ISO standard 15189:2007(E) and, to a lesser extent, CLSI guideline GP26-A4; Quality Management System: A model for Laboratory Services; Approved Guideline – Fourth Edition.

Recognition is provided using a five star tiered approach, based on a bi-annual on-site audit of laboratory operating procedures, practices, and performance.

The inspection checklist score will correspond to the number of stars awarded to a laboratory in the following manner:

No Stars	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
(0 – 141 pts)	(142 – 166 pts)	(167 – 192 pts)	(193 – 218 pts)	(219 – 243 pts)	(244 – 258 pts)
< 55%	55 – 64%	65 – 74%	75 – 84%	85 – 94%	≥95%

A laboratory that achieves less than a passing score on any one of the applicable standards will work with the Regional Office Laboratory Coordinator to:

- Identify areas where improvement is needed.
- Develop and implement a work plan.
- · Monitor laboratory progress.
- · Conduct re-testing where required.
- Continue steps to achieve full accreditation.

3.0 Parts of the Audit

This laboratory audit consists of three parts:

Part I: Profile of Laboratory

Part II: Audit Checklist

Evaluation of laboratory operating procedures, practices, and tables for reporting performance

Part III: Summary of Findings

Summary of findings of the SLIPTA audit and action planning worksheet

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Does the laboratory have sufficient space, equipment, supplies, personnel, infrastructure, etc. to execute the correct and timely performance of each test and maintain the quality management system? If no, please elaborate in the summary and recommendations section at the end of the checklist.		
Sufficient space	YES	NO
Equipment	YES	NO
Supplies	YES	NO
Personnel	YES	NO
Infrastructure	YES	NO
Other - Please specify:	YES	NO

PART II: LABORATORY AUDITS

Laboratory audits are an effective means to 1) determine if a laboratory is providing accurate and reliable results; 2) determine if the laboratory is well-managed and is adhering to good laboratory practices; and 3) identify areas for improvement.

Auditors complete this audit using the methods below to evaluate laboratory operations per checklist items and to document findings in detail.

- Review laboratory records to verify that the laboratory quality manual, policies, personnel files, equipment
 maintenance records; audit trails, incident reports, logs, Standard Operating Procedures (SOPs) and other
 manuals (e.g., safety manual) are complete, current, accurate, and annually reviewed.
- Observe laboratory operations to ensure:
 - laboratory testing follows written policies and procedures in pre-analytic, analytic and post-analytic phases of laboratory testing;
 - o laboratory procedures are appropriate for the testing performed;
 - Deficiencies and nonconformities identified are adequately investigated and resolved within the established timeframe.
- Ask open-ended questions to clarify documentation seen and observations made. Ask questions like,
 "show me how..." or "tell me about..." It is often not necessary to ask all the checklist questions verbatim.
 An experienced auditor can often learn to answer multiple checklist questions through open-ended
 questions with the laboratory staff.
- Follow a specimen through the laboratory from collection through registration, preparation, aliquoting, analyzing, result verification, reporting, printing, and post-analytic handling and storing samples to determine the strength of laboratory systems and operations.
- Confirm that each result or batch can be traced back to a corresponding internal quality control (IQC) run and that the IQC was passed. Confirm that IQC results are recorded for all IQC runs and reviewed for validation.
- Confirm PT results and the results are reviewed and corrective action taken as required.
- Evaluate the quality and efficiency of supporting work areas (e.g., phlebotomy, data registration and reception, messengers, drivers, cleaners, IT, etc).
- Talk to clinicians to learn the users' perspective on the laboratory's performance. Clinicians often are a good source of information regarding the quality and efficiency of the laboratory. Notable findings can be documented in the Summary and Recommendations section at the end of the checklist.

AUDIT SCORING

This Stepwise Laboratory Improvement Process Towards Accreditation Checklist contains 111 main sections (a total of 334 questions) for a total of 258 points. Each item has been awarded a point value of 2, 3, 4 or 5 points—based upon relative importance and/or complexity. Responses to all questions must be, "yes", "partial", or "no".

• Items marked "yes" receive the corresponding point value (2, 3, 4 or 5 points). <u>All</u> elements of a question must be present in order to indicate "yes" for a given item and thus award the corresponding points.

NOTE: items that include "tick lists" must receive all "yes" and/or "n/a" responses to be marked "yes" for the overarching item.

- Items marked "partial" receive 1 point.
- Items marked "no" receive 0 points.

When marking "partial" or "no", notes should be written in the comments field to explain why the laboratory did not fulfill this item to assist the laboratory with addressing these areas of identified need following the audit.

Audit Score Sheet									
Section		Total Points							
Section 1: Docume		25							
Section 2: Manage		17							
Section 3: Organiza		20							
Section 4: Client M	anagement & Custome	er Service			8				
Section 5: Equipme	ent				30				
Section 6: Internal		10							
Section 7: Purchas		30							
Section 8: Process		33							
Section 9: Informat	ion Management				18				
Section 10: Correct		12							
Section 11: Occurrence/Incident Management & Process Improvement									
Section 12: Facilities and Safety 43									
TOTAL SCORE 258									
No Stars (0 – 141 pts) < 55%	1 Star (142 – 166 pts) 55 – 64%	2 Stars (167 – 192 pts) 65 – 74%	3 Stars (193 – 218 pts) 75 – 84%	4 Stars (219 – 243 pts) 85 – 94%	5 Stars (244 – 258 pts) ≥95%				

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Are documents and records properly maintained, easily accessible and fully YPN	·					
maintained, easily accessible and fully Y P N						2
detailed in an up-to-date Master List?		Υ	P	N		
	detailed in an up-to-date Master List?					
andard: An up-to-date Master List that comprehensively details all laboratory documents, policies, and procedures should be readily accessible in either hard copy or ele			L			L

1.4 Laboratory Policies and Standard			
Operating Procedures			
Are policies and standard operating			
procedures (SOPs) for laboratory	Υ	Р	N
functions current, available and			
approved by authorized personnel?			
ISO 15189 4.3.2			
Policies and/or SOPs that:	-	for eac	h item
Decument & Decord Control	Yes	No	
Document & Record Control			
Defines the writing, checking, authorization, review, identification, amendments, control and			
communication of revisions to -			
and retention and safe disposal of -			
all documents and records			
and a control and records			
Standard ISO15189: 4.3.1, 4.13.1-3			
Conflict of Interest			
Defines the systems in place to identify and avoid			
potential conflicts of interest and commercial,			
financial, political or other pressures that may affect			
the quality and integrity of operations			
Standard: ISO15189: 4.1			
Communication Defines the systems in place to ensure			
effectiveness of the quality management systems			
enectiveness of the quality management systems			
ISO15189: 4.1.6			
Review of Contracts (Supplier and Customer)			
Defines the maintenance of all records, original			
requests, inquiries, verbal discussions and			
requests for additional examinations, meetings,			
and meeting minutes			
0, 1, 1, 100, 17100			
Standard: ISO 15189: 4.4			
Examination by Referral Laboratories Defines the 1) evaluation, selection, and			
performance monitoring of referral laboratories, 2)			
packaging and tracking of referred samples, 3)			
reporting of results from referral labs			
operang of recalle from referral labo			
Standard: ISO 15189: 4.5.1			
Purchasing and Inventory Control			
Defines the processes for 1) requesting, ordering			
and receipt of supplies, 2) the selection of			
approved suppliers, 3) acceptance/rejection criteria			
for purchased items, 4) safe handling, 5) storage,			
inventory control system, 6) monitoring and			
handling of expired consumables			
Standard: ISO 15189: 4.6			
Advisory Services			
Defines the required qualifications and			
responsibility for providing advice on: 1) choice of			
examinations, 2) the use of the services, 3) repeat			
frequency, 4) required type of sample, 5)			
interpretation of results, 6) maintenance of records			
of communication with lab users			
ISO 15189: 4.7			

Resolution of Complaints and Feedback Defines how 1) complaints and feedback shall be recorded, 2) steps to determine whether patient's results have been compromised, 3) investigative and corrective actions taken as required, 4) timeframe for closure and feedback to the complainant Standard: ISO 15189: 4.8 Identification and Control of Nonconformities Defines the 1) types of nonconformities that could be identification and control of Nonconformities Defines the 1) types of nonconformities that could be identification are to be halted, 5) the recall of released results, 6) person responsible for authorizing release of results after corrective action has been taken Standard: ISO 15189: 4.9 Corrective Action Defines 1) where to record, 2) how to perform root cause analysis, 3) who will be responsible for implementing action plans within the stipulated timeframes, 4) monitoring the effectiveness of these actions in overcoming the identified problems Standard: ISO 15189: 4.10 Preventive Action Defines Standard: ISO 15189: 4.11 Continual Improvement Defines what took will be used, where the action plan will be recorded, who will be responsible for ensuring the implementation within an agreed time frame and the monitoring of its effectiveness Standard: ISO 15189: 4.11 Continual Improvement Defines what are quality indicators will be used and how action plans for these areas will be recorded, evaluated, and reviewed for effectiveness of improvement Standard: ISO 15189: 4.12 Quality and Technical Records Defines what are quality and technical records, how amendments would be done, traceability, storage, retention and accessibility of all hard and electronic records Standard: ISO 15189: 4.13 Internal Audits
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Internal Audits
Defines the internal audit process, including roles
and responsibilities, types of audits, frequency of
audits, auditing forms to be used, what will be
covered, and identification of personnel responsible
for ensuring closure of any nonconformances
raised within the agreed timeframe and
effectiveness of corrective actions implemented
Standard: ISO 15189: 4.14
Management Review
Defines frequency, agenda (in line with 4.15.2 a-
m), key attendees required, and plan that will
include goals, objectives, action plans,
responsibilities, due dates and how

the relevant persons Standard: ISO 15189: 4.15 Personnel Records/Files Defines organizational plan, personnel policies, what is required in a personnel file (minimum in line with ISO 15189 Section 5.1.2) and location of personnel files	[1	
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handling; minimum requirements for completion of a requisition form, transportation and receipt of samples			
a requisition form, transportation and receipt of samples			
samples			
ISO 15189: 5.4.2 ,5.4.3	samples		
ISO 15189: 5.4.2 ,5.4.3			
	ISU 15189: 5.4.2 ,5.4.3		

Specimen Storage and Retention				
Defines pre- and post-sampling storage conditions,				
stability and retention times				
100 45400 5 7 0				
ISO 15189: 5.7.2 Examination SOPs				
Defines all sub-clauses of ISO15189 Section 5.5.3				
(a-q)				
ISO 15189: 5.5.3				
Equipment Validation/Verification				
Defines methods to be used, how the lab ensures				
that equipment taken out of the control from the lab				
is checked and shown to be functioning				
satisfactorily before being returned to laboratory				
use, validation/verification acceptance criteria and				
person responsible for final authorization for				
intended use				
ISO 15189: 5.5.2				
Interrupted Services				
Defines backup procedures for equipment failure,				
power failure, unavailability of consumables and				
other resources				
Examination Validation/Verification				
Defines methods to be used, acceptance criteria,				
and person responsible for final authorization for				
intended use				
ISO 15189: 5.5.2				
Quality Assurance				
Defines the use of IQC and EQC, setting up of				
ranges, monitoring performance and				
troubleshooting guidelines				
ISO 15189 5.6				
Reporting of Results				
Defines the standardized format of a report (in line				
with ISO15189: Section 5.8.3), methods of				
communication, release of results to authorized				
persons, alteration of reports and reissuance of				
amended reports				
ISO 15189: 5.8				
Patient Confidentiality				
Defines the tools used to ensure patient				
confidentiality and access control to laboratory				
facilities and records (electronic and paper records)				
ISO 15189: 5.8.13				
Laboratory Safety or Safety Manual				
Defines the contents to be included				
Dominos the contents to be included				
ISO 15190: 7.5				
	tablished	and mair	ntained up	-to-date for all tasks performed within the laboratory, safety and waste disposal,

document control, specimen collection and processing, inventory control, procurement, and quality assurance. SOPs should be reviewed for accuracy and relevance on an annual basis. All policies and procedures should be approved by an authorized person.

1.5 Policy and SOPs Accessibility Are policies and SOPs easily available to all staff and writte language commonly understo respective staff?	accessible/ en in a	Y	Р	N	2
Standard: All procedures shall be documented a language commonly understood by the staff in th ISO 15189: 5.5.3, 4.3.2 Part C		he wo	rkstation i	for releva	nt staff. Documented procedures and necessary instructions shall be available in a
1.6 Policies and SOPs Communic Is there documented evidence relevant policies and SOPs had communicated to and are und implemented by all staff as re their responsibilities?	e that all ave been derstood and	Y	P	N	2
Standard: Policies, processes, programs, proced documents are understood by staff and implements ISO 15189: 4.2.1		ns sha	all be doc	umented	and communicated to all relevant staff and management must ensure that these
1.7 Document Control Log Are policies and procedures of reflect when it was put into ef when it was discontinued?		Υ	Р	N	2
the date of discontinuation. ISO 15189: 4.3.1, 4.3.2 Part (e) and (f): 4.3.2 -	"Procedures shall b	ne ado _l	pted to er	sure tha	cy/procedure went into service, schedule of review, the identity of the reviewers, and e) invalid or obsolete documents are promptly removed from all points of use, or are appropriately identified to prevent their inadvertent use.
1.8 <u>Discontinued Policies and SC</u> Are invalid or discontinued procedures removed from use retained or archived for the tirequired by lab and/or nations	<u>PPs</u> olicies and e and me period	Y	Р	N	2
Standard: Discontinued policies/procedures sho and/or national policy. ISO 15189: 4.3.1, 4.3.2 Part (e) and (f) – see al		rchive	d in a sep	arate file	or place clearly marked to avoid use for the period of time required by laboratory
1.9 <u>Data Files</u> Are test results and technical quality records archived in ac with national/international gu	and ccordance	Y	Р	N	2
Standard: Copies or files of results should be are as medically relevant or as required by national, ISO 15189: 5.8.6, 4.13.2, 4.13.3				rted data	are retained may vary; however, the reported results shall be retrievable for as long
1.10 Archived Results Accessibilit Are archived records and res retrievable in a timely manner	ults easily	Y	Р	N	2
Standard: Archived patient results must be easil ISO 15189: 5.8.6, 4.13.2	y, readily, and comp	oletely	retrievab	le within	a timeframe consistent with patient care needs.
SECTION 1: DOCUMENTS & R	ECORDS Su	btot	tal		25

For each item, please circle either Yes (Y), Partial (P), or No (N). All elements of the question must be satisfactorily present to indicate "yes". Provide explanation or further comments for each "partial" or "no" response. Ρ Comments 2.0 MANAGEMENT REVIEWS 2.1 Workplan and Budget N Does management develop and implement a workplan and develop a budget that supports the laboratory's testing operations and maintenance of the quality system? Standard: Laboratories should be involved in the development of the work plan and budget for their activities. The workplan should reflect the findings of management reviews in its goals, objectives, and actions. Not all labs will have budgetary authority as higher levels of management may have direct control for budget-making. If the laboratory does not develop these guiding documents itself, it must communicate with upper management effectively about these areas, including providing a forecast of needs. ISO 15189: 4.1.5 Part (a) and (h) "Laboratory management shall have responsibility for the design, implementation, maintenance and improvement of the quality management 2.2 Review of Quality and Technical Records Does the laboratory supervisor routinely Υ Р N perform a documented review of all quality and technical records? Tick for each item Does the supervisor's review include the Yes No following? Follow-up of action items from previous reviews Status of corrective actions taken and required preventive actions Reports from personnel Changes in volume and type of work the laboratory undertakes Changes in the suitability of biological reference ranges Changes in the client handbook Environmental monitoring log sheets Specimen rejection logbook Equipment calibration and maintenance records IQC records across all test areas Outcomes of PTs and other forms of Interlaboratory comparisons Monitoring of turnaround time Quality indicators Outcomes from recent internal audit records Results of assessment(s) or audits by external bodies

Customer complaints and feedback					
Occurrence/incidence logs, nonconformities and corrective action reports					
Results of improvement projects					
Operational procedures (for potential sources of non-conformance and opportunities for improvement)					
Evaluation of performance of referral laboratories					
Evaluation of supplier performance					
Document Review					
Documentation of review and action planning with staff for resolution and follow-up review					
Standard: There must be documentation that the laboratory mana problems have been addressed, and that new or redesigned activ. ISO 15189: 4.15.2 (a) - (m). Management review shall include 4.1	ager/sup ities hav	ervisor or e been ev	a design ⁄aluated.	ee reviews the quality program regularly. The review must ensure that recui	rrent
ISO 15189: 4.15.2 (a) - (m). Management review shall include 4.1 2.3 Annual Review of Quality Management	5.2. (a)	through (r	n).		5
Systems Does the laboratory management annually perform a review of all quality systems at a management review meeting?	Y	P	N		·
Does the management review meeting include the	Tick	for each	item		
following?	Yes	No			
Follow-up of action items from previous management reviews					
Status of corrective actions taken and required preventive actions					
Reports from managerial and supervisory personnel					
Changes in volume and type of work the laboratory undertakes					
Changes in the suitability of biological reference ranges					
Changes in the client handbook					
Environmental monitoring log sheets					
Specimen rejection logbook					
Equipment calibration and maintenance records					
IQC records across all test areas					
Outcomes of PTS and other forms of Interlaboratory comparisons					
Turnaround time					
Quality indicators					
Outcomes from recent internal audit records					

Results of assessment(s) or audits by external bodies				
Customer Complaints and Feedback				
Reports from managerial and supervisory personnel				
Occurrence/incidence logs, nonconformities and corrective action reports				
Results from improvement projects				
Operational procedures (for potential sources of non-conformance and opportunities for improvement)				
Evaluation of performance of referral laboratories				
Evaluation of supplier performance				
Documentation of review and action planning with staff for resolution and follow-up review				
Standard: There must be documentation that the head of laborator recurrent problems have been addressed, and that new or redesigns 15189: 4.15	ory or a d gned acti	designee ivities ha	reviews th	ne quality program at least once every 12 months. The review must ensure that valuated.
2.4 Quality Management System Improvement Measures Does the laboratory identify and undertake quality improvement projects?	Y	P	N	3
Standard: The monthly and annual reviews of the quality manage plans for improvement shall be developed, documented and imple ISO 15189: 4.12.1	ment sy mented,	stem mu as appro	st be used opriate.	as opportunities for identifying nonconformities and areas for improvement. Action
2.5 Communications System on Laboratory Operations Does the laboratory communicate with upper management regularly regarding personnel, facility, and operational needs?	Y	Р	N	2
Standard: The laboratory must have a system in place for commu. The communication and follow-up must be documented ISO 15189: 4.1.6	ınicating	with mai	nagement	regarding laboratory operations and effectiveness of the quality management system.
SECTION 2: MANAGEMENT REVIEW Sub	total			17

For each item, please circle either Yes (Y), Part indicate "yes". Provide explanation or further co				l elements of the question must be satisfactorily presentation or "no" response.	nt to
The state of the s	Υ	Р	N	Comments	Score
3.0 ORGANIZATION & PERSONNE					
3.1 Workload, Schedule and Coverage Do work schedules show task assignments & coordination of work for adequate lab staff coverage?	Y	Р	N		2
coverage. There shall be enough staff resources adequate to cov level, workloads, and the task completion timeframe	er the w	ork as req	uired and	. Work schedules are normally provided to hospital management showing It tasks should be prioritized, organized, and coordinated based upon perso quired and the carrying out of other functions of the quality management sy	nnel skill
3.2 <u>Duty Roster And Daily Routine</u> Are daily routine work tasks established, assigned (duty roster and workstation assignments/tasks), monitored and supervised by qualified professional staff, and which indicates that only authorized personnel perform specific tasks?	Y	P	N		2
X assigned to hematology (duty roster) expected to perform speci service delivery for patients.	fic tasks	(worksta	tion tasks	d workstation tasks list the tasks associated with a specific workstation. E.g. Daily routines should be prioritized, organized and coordinated to achiev asks such as sampling, examination and operation of particular types of equ	e optimal
3.3 Organizational Chart and External/Internal Reporting Systems Are lines of authority and responsibility clearly defined for all lab staff, including the designation of a supervisor and deputies for all key functions?	Y	P	N		2
Standard: An up-to-date organizational chart and/or narrative des The organizational chart or narrative should clearly show how the ISO 15189: 5.1.1, 4.1.5 Part (e & j)				e detailing the external and internal reporting relationships for laboratory pe est of the hospital and laboratory services where applicable	rsonnel.
3.4 Quality Management System Oversight Is there a quality officer/manager with delegated responsibility to oversee compliance with the quality management system?	Y	P	N		3
	with dele anageme	egated au ent at whi	thority to ch decisio	oversee compliance with the requirements of the quality management systems are made on laboratory policy and resources.	em. This
3.5 <u>Personnel Filing System</u> Are Personnel Files present?	Υ	P	N		3
If files are present, do they document or contain		for each			<u> </u>
the following:	Yes	No	N/A		
Employee Orientation					
Education & Training (e.g., degrees/certificates)					
Previous experience and work history (e.g. CV)					
Written job description with documentation that staff member received and signed a copy of their job description					
Letter of employment or appointment					

Review of job-relevant SOPs				
Documented review of safety manual, evidence of safety training				
Review of procedure for employees to communicate concerns about test quality and laboratory safety				
Registration with professional board				
Training record documenting trainings received, vendor training received on-site				
Periodic Performance Review – including Observation, Competency Assessment, Coaching / Feedback, on-the-job training				
Documentation of employee recognition (i.e., employee of the month, letter of commendation, etc.)				
Human Resource (HR) Data – (vaccination status, accidental exposure during work injuries, accident history, leave days taken, etc.)				
Standard: Personnel files should be maintained for all current starecords, periodic performance review records, and records of vacilsO 15189: 5.1.2				nclude job description, qualifications, training, experience, competency assessment ace accidents.
3.6 Staff Competency Assessment and Training Is there a system for competency assessment of personnel (both new hires and existing staff) and does it include planning and documentation of retraining and reassessment, when indicated?		P	N	3
for testing competency at least once a year. Staff assigned to a n and reassessment should be planned and documented. If the em assignment of duties, or other appropriate actions. Records of co should show which skills were assessed, how those skills were n	ew secti ployee's mpetend neasured	ion should competer cy assessi l, and who	l be asses ncy rema ments and perform	pendent duties and again within six months. All lab staff should be regularly assessed seed before fully assuming independent duties. When deficiencies are noted, retraining ins below standard, further action might include supervisory review of work, redresulting actions should be retained in personnel files and/or quality records. Records and the assessment.
3.7 Laboratory Staff Training Does the laboratory have adequate training policies, procedures, and/or training plans, including cross-training within the laboratory team, one-on-one mentoring, and/or off-site external training?	Y	P	N	2
Standard: In line with national laboratory training plans, each lab through both internal and external training. ISO 15189: 4.12.5, 5.1.6, 5.1.9	oratory s	should hav	ve functio	nal training policies and procedures that meet the needs of laboratory personnel
3.8 Staff Meetings Are staff meetings held regularly?	Y	Р	N	3
Do meetings include the following items?	Tick	for each	item	
	Yes	No	N/A	
Follow-up of action items from previous staff meetings				
Discussion about problems and complaints				
Review of documentation				
Communication on reviewed/revised/redundant				

SOPs					
Systemic and or recurrent problems and issues addressed, including actions to prevent recurrence					
Review of results from prior corrective actions					
Discussion and evaluation of improvement topics/projects					
Feedback given by staff that have attended meetings, training, conferences etc.					
Recognition of employees for exemplary performance (i.e., employee of the month, letter of commendation, etc.)					
Relay of reports and updates from lab attendance at meetings with clinicians (the use of lab services and/or attendance at clinical rounds)					
Recording and monitoring of meeting notes for progress on issues					
Standard: "Laboratory management shall ensure that appropriate the effectiveness of the quality management system. "The labora recorded notes to facilitate review of progress over time. ISO 15189: 4.1.6	e communicatio tory should hole	on processes d regular sta	s are established within the laboratory and the ff meetings to ensure communication within	nat communication takes place r the laboratory. Meetings should	regarding I have
				_	20
SECTION 3: ORGANIZATION & PERSON	NEL Subt	otal			

For each item, please circle either Yes (Y), Parindicate "yes". Provide explanation or further co				elements of the question must be satisfactorily present to
marcate yee . Treviae explanation of faither of	Υ	P	N	Comments Score
4.0 CLIENT MANAGEMENT & CUS	TOM	ER S	ERVI	CE
4.1 Advice and Training by Qualified Staff Do staff members with appropriate professional qualifications provide clients with advice and/or training regarding required types of samples, choice of examinations, repeat frequency, and interpretation of results?	Y	Р	N	2
Standard: Professionally-qualified staff should provide advice on ISO 15189:4.7; 4.12.5	sample	type, exai	mination o	hoice, frequency, and results interpretation.
4.2 Laboratory Handbook for Clients Is there a laboratory handbook for laboratory users that includes information on services offered, quality assurance, laboratory operations, sample collection, transport and agreed turnaround times?	Y	P	N	2
Standard: The laboratory should provide its clients with a handboard shipping directions, and expected turnaround times. ISO 15189: 4.7, 4.12.5, 5.5.6	ook that o	outlines th	e laborato	ory's hours of operation, available tests, specimen collection instructions, packaging
4.3 Communication Policy on Delays in Service Is timely, documented notification provided to customers when the laboratory experiences delays or interruptions in testing (due to equipment failure, stock outs, staff levels, etc.) or finds it necessary to change examination procedures?		Р	N	2
				Such notification shall be documented for both service interruption and resumption as be notified of all delays of examination, but only in those situations where the delay
4.4 Evaluation Tool and Follow up Is there a tool for regularly evaluating client satisfaction and is the feedback received effectively utilized to improve services?	Y	P	N	2
Standard: The laboratory should measure the satisfaction of clie ISO 15189: 4.8, 4.15.2 Part (h)	nt clinicia	ns and pa	ı atients reg	parding its services, either on an ongoing basis or through episodic solicitations.
SECTION 4: CLIENT MANAGEMENT & C	USTO	MER S	SERVI	CE Subtotal

	ach item, please circle either Yes (Y), Parti ate "yes". Provide explanation or further co				Il elements of the question must be satisfactorily presenantial" or "no" response.	nt to
		Υ	Р	N	Comments	Score
5.0	EQUIPMENT					•
5.1	Adherence to Proper Equipment Protocol Is equipment installed and placed as specified in the operator's manuals and uniquely labeled or marked?	Y	Р	N		2
than 75	rd: Equipments should be properly placed as specified in % of the base of the equipment sitting on the bench top to 189: 5.3.3 "Each item of equipment shall be uniquely label	avoid tip	o-over.		e following but not limited to water, direct sunlight, vibrations, in traffic and v	with more
	Equipment and Method Validation/ Verification and Documentation Are newly introduced equipment and methods validated/verified on-site and are records documenting validation available?	Y	P	N		2
equipm	ent. Validation may be done versus the method or equipme	ent bein	g replaced	d or the p	at their introduction yields performance equal to or better than the previous or prevailing gold-standard. An SOP should be in place to guide method valida e examination procedures are suitable for the intended use."	method or ation.
	Equipment Record Maintenance Is current equipment inventory data available on all equipment in the laboratory?	Y	P	N	examination procedures are dutable to the interiore acc.	2
		Tick	for each	item		
NI	and a firm of a market	Yes	No	N/A		
	ne of equipment nufacturer's contact details					
Cor	ndition received (new, used, reconditioned)					
Ser	ial number					
Dat	e of purchase					
	e when put "out of service"					
	e of entry into service					
equipm	rd: Records shall be maintained for each item of equipmer ent like centrifuges, water baths, rotators, fridges, pipettes, 1189: 5.3.4				e of examinations. Such equipment list must include major analyzers as well rs.	ll as ancillary
5.4	Equipment Maintenance Records Is relevant equipment service information readily available in the laboratory?	Y	Р	N		2
			for each	T .		
		Yes	No	N/A		
	vice contract information					
	ntact details for service provider					
	contamination Records					
	formance and maintenance records					
	t date of service					
	t date of service					
Cur	rent location					

available	rd: Maintenance records must be maintained for each iten e for the lifespan of the equipment or for any time period r 189: 5.3.4				performance of examinations These records shall be maintained and shall be readil al and local regulations.
	Obsolete Equipment Procedures Is non-functioning equipment appropriately labeled and removed from the laboratory & storage areas?	Y	P	N	2
equipme	rd: The laboratory must have procedures for proper retirer ent shall be properly decontaminated before being remove 189: 5.3.7			equipmer	t and should be removed from the laboratory to free work and storage areas. The
	Adherence to Equipment Calibration Protocol Is routine calibration of laboratory equipment (including pipettes, centrifuges, balances, and thermometers) scheduled, as indicated on the equipment, and verified?		P	N	2
This sha	rd: All equipment in the laboratory that require calibration all cover major analyzers as well as ancillary equipments li 189: 4.2.5, 5.3.2				ng to the schedule, which at minimum must meet the manufacturer's recommendation, balances, centrifuges, timers, balances
5.7	Equipment Preventive Maintenance Is routine preventive maintenance performed on all equipment and recorded according to SOPs/log sheet?	Y	P	N	2
	rd: Preventative maintenance by operators must be done 189: 4.2.5, 5.3.2	on all e	quipment	used in e	examinations including centrifuges, autoclaves, microscopes, safety cabinets
5.8	Equipment Service Maintenance Is equipment routinely serviced according to schedule by qualified and competent personnel and is this information documented in appropriate logs?	Y	P	N	2
meet ma	rd: All equipments must be serviced at specified intervals anufactures requirements 189: 4.2.5, 5.3.2	by a qu	alified ser	vice engi	neer either through service contracts or otherwise. Service schedule must at minimum
5.9	Equipment Parts for Repair Are parts available to perform minor repairs as per manufacturer's instructions?	Y	Р	N	2
the exar	rd: "Equipment shall be shown (upon installation and in ro minations concerned." 189: 5.3.2	utine us	se) to be c	apable o	achieving the performance required and shall comply with specifications relevant to
5.10	Equipment Malfunction - Response and Documentation Is equipment malfunction resolved by the effectiveness of the corrective action program and the associated root cause analysis?	Y	P	N	2
	rd: All equipment malfunctions must be investigated and o	documei	nted on co	rrective a	action reports. Where user cannot resolve the problem, a repair order must be initiated
	Equipment Repair Monitoring and Documentation Are repair orders monitored to determine if the service is completed? Does the laboratory verify and document that it is in proper working order before being put it back into service?	Y	P	N	2
	rd: All equipment should receive thorough documented cl 189: 5.3.10	hecks to	ensure p	roper fun	ctioning before being returned into service, following its absence from the laboratory.

5.12 Equipment Failure - Contingency Plan Are there back-up procedures for equipment failure (including SOPs for handling specimens during these times, identification of a back-up lab for testing, and referral procedures)?	Y	P	N	2
				pletion of testing. In the event of a testing disruption, planning may include the use of
				r laboratory, or the freezing of samples until testing is reestablished. the provision of services (including primary sample collection, and sample preparation)
				re provision of services (including primary sample collection, and sample preparation equipment outside its permanent control, laboratory management shall ensure that
the requirements of this international Standard are met."	ino rabor	atory noc	.00 10 000	equipment eatends to permanent control, haboratory management chair ender chair
5.13 Manufacturer's Operator Manual	Υ	Р	N	2
Are the equipment manufacturer's				
operator manuals readily available to				
testing staff, and where possible,				
available in the language understood by				
staff?				
Standard: Operator manuals must be readily available for referen ISO 15189: 5.3.5	ice by te	sting staf	f.	
5.14 Communication on Effectiveness of	Υ	Р	N	2
Quality Management System				
Are equipment specifications and				
maintenance needs routinely				
communicated to upper management?				
Standard: Laboratory management shall ensure that appropriate	commun	ication n	rocesses	l are established within the laboratory and that communication takes place regarding the
		ness of th	e quality	management system.
		1	O 15189:	4.1.6
5.15 <u>Laboratory Testing Services</u>	Y	P	N	2
Has the laboratory provided				
uninterrupted testing services, with no				
disruptions due to equipment failure in				
the last year (or since the last audit)?				
				30
SECTION 5: EQUIPMENT Subtotal				

indicate "yes". Provide explanation or further	comm	ents to	r each	·	
	Υ	Р	N	Comments	Score
6.0 INTERNAL AUDIT					
6.1 Internal Audits Are internal audits conducted at intervals as defined in the quality manual and do these audits address areas important to patient care?	Υ	P	N		5
	_	for each	item		,
	Yes	No			-
Are audits being carried out by persons who are not involved in lab activities in the section being audited?					
Are the personnel conducting the internal audits trained and competent in auditing?					
Is cause analysis performed for nonconformities/noted deficiencies?					
Are internal audit findings documented and presented to the laboratory management and relevant staff for review?					
6.2 Audit Recommendations and Action Plan & Follow up Are recommendations for corrective/preventive actions made based on audit findings; is an action plan developed with clear timelines and documented follow-up?	Y	P	N		5
Standard: Internal audits should be conducted at least annu- reviewed periodically to determine whether systemic problem action taken, in order to ensure that they have been effective ISO 15189: 4.2.4, 4.10.3, 4.14	s are res	ponsible f	or errors	al problems may not reveal trends or patterns. Errors and incident reports shot and/or incidents. Laboratory management shall monitor the results of any corn problems.	uld be ective
,,					10
 SECTION 6: INTERNAL AUDIT Subtota	al				

	te "yes". Provide explanation or further co.	Υ	Р	N	Comments	
		'		"		
.0	PURCHASING & INVENTORY					
7.1	Inventory and Budgeting System					
	Is there a system for accurately	Υ	P	N		
	forecasting needs for supplies and reagents?	'		IN IN		
		ining its	supply a	nd testing	needs through inventory control and budgeting systems that take	e into c
	erns, present trends, and future plans. 89: 4.6.4 "The laboratory shall evaluate suppliers of critica	al reagei	nts, supp	lies and s	ervices that affect the quality of examinations and shall maintain	records
aluatio					ministration of the medical laboratory service, including budget pl	
	Service Supplier Performance Review			Τ		
	Are supply & reagent specifications		_	l		
	periodically reviewed and are approved	Y	P	N		
	suppliers identified?					
esults (of these reviews must be documented	e review	ed for the	eir perforn	nance. Those that perform well must be identified and listed as ap	oproved
	89: 4.6.4 Manufacturer/Supplier List			1		
1.5	Is an up-to-date list of approved					
	manufacturers/suppliers available and	Y	P	N		
	includes their complete contact	'	'	''		
	information?					
		o-to-date	list of ap	proved m	anufacturers/suppliers that includes full contact details to expedit	e orderi
nd follo O 151	w-up. 8 9: 4.6.4					
7.4	Budgetary Projections					
	Are budgetary projections based on					
	personnel, test, facility and equipment needs, and quality assurance procedures	Y	P	N		
	and materials?					
tandai	d: ISO 15189: 5.1.4 (i) "Provide effective and efficient ad	ministrat	ion of the	medical	aboratory service, including budget planning and control with res	enoneible
anagei	ment."				and all of the state of the sta	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7.5	Management Review of Supply Requests Does management review the finalized					
	supply requests?	Y	P	N		
7.6	Order Tracking, Inspection, and	I		I		
7.0	Documentation					
	Are all orders tracked until delivery and					
	inspected, receipted, and labeled with	Y	P	N		
		1		1		
	date of receipt when the orders are checked in?					

Y	Р	N	2
		h item	
Yes	No		
n for su	pplies tha	t monitors	receipt, storage and use of consumables
		ı	· -
Y	P	N	
he Labo nt expiry	ratory of of reage	how much ents	at minimum must be kept in the laboratory to avoid interruption of service due to stoo
Υ	Р	N	2
y to trac	k rate of	usage of o	consumables
Y	Р	N	2
part of i	ts invento	ory control	system
Y	Р	N	2
Tick	for eacl	h item	
Yes	No	N/A	
Y	P	N	2
	Tick Yes In for sup Y In the Labo Int expiry Y Y to trace Y Tick Yes	Tick for each No Tick for each No In for supplies that Y P The Laboratory of reage Y P Part of its inventory of the each No Tick for each No	Tick for each item Yes No In for supplies that monitors Y P N Tick for each of usage of of the supplies inventory control Y P N Tick for each item Yes No N/A

USAIDStandard: To minimize wastage from product expiry, inventory should be organized in line with the First-Expiry-First-Out (FEFO) principle. Place products that will expire first in front of products with a later expiry date and issue stock accordingly to ensure products in use are not past their expiry date. Remember that the order in which products are received is not necessarily the order in which they will expire. USAID Deliver Project, the Logistics Handbook, Task Order 1, 2007

7.13 <u>Disposal of Expired Products</u> Are expired products labeled and disposed properly?	Y	P	N	2
Standard: Expired products should be disposed of properly. If sa time of their next delivery.	afe dispo	osal is not	available	e at the laboratory, the manufacturer/supplier should take back the expired stock at the
7.14 Product Expiration Are all reagents/test kits in use (and in stock) currently within the manufacturerassigned expiration dates or within stability?	Y	P	N	2
CAP Standard: All reagent and test kits in use, as well as those i and should be documented before disposal. Chemistry and Tox.				e manufacturer-assigned expiry dates. Expired stock should not be entered into use 2660, 2010
7.15 <u>Laboratory Testing Services</u> Has the laboratory provided uninterrupted testing services, with no disruptions due to stock outs in the last year or since last audit?	Y	P	N	2
Standard: Testing services should not be subject to interruption of samples to another testing facility while the stock out is being add		ock outs.	Laborato	ries should pursue all options for borrowing stock from another laboratory or referring
SECTION 7: PURCHASING & INVENTOR		ototal		30

For each item, please circle either Yes (Y), Part indicate "yes". Provide explanation or further co		ts for e	ach "pa		
	Υ	Р	N	Comments	Score
8.0 PROCESS CONTROL and INTERNAL	L&E	XTER	NAL C	QUALITY AUDIT	
8.1 Are guidelines for patient identification, specimen collection (including client safety), labeling, and transport readily available to persons responsible for primary sample collection?	Y	Р	N		2
Standard: "Specific instructions for the proper collection and hand those responsible for primary sample collection." ISO 15189: 5.4.2	dling of p	rimary sa	amples sh	all be documented and implemented by laboratory management and mad	le available to
8.2 Are adequate sample receiving procedures in place?	Y	Р	N		3
	Tick	for each	item		
Are specimens labeled with patient ID, test, and date, time of collection, date of collection and authorized requester?	Yes	No	N/A		
Are all test requests accompanied by an acceptable and approved test requisition form?					
If not a 24 hour lab, is there a documented method for handling of specimens received after hours?					
Are all samples that are either received or referred to a higher level laboratory accompanied by a sample delivery checklist or transmittal sheet?					
Are received specimens evaluated according to acceptance/rejection criteria?					
Are specimens logged appropriately upon receipt in the laboratory (including date, time, and name of receiving officer)?					
When samples are split, can the portions be traced back to the primary sample?					
Is a two-identifier system in use and is each sample assigned a unique identifying number?					
Are procedures in place to process "urgent" specimens and verbal requests?					
Are specimens delivered to the correct workstations in a timely manner?					
Standard: ISO 15189: 5.4.1, 5.4.5, 5.4.7, 5.4.8, 5.4.10, 5.4.11, 5	.4.13	1	1		b
8.3 Are specimens stored appropriately prior to testing?	Y	P	N		2
	and resu	ılts." Spe	cimens sh	g integrity of samples, slides, histology blocks, retained micro-organisms, lould be stored under the appropriate conditions to maintain the stability of to Biosafety regulations.	
8.4 Are specimens packaged appropriately according to local and or international regulations and transported to referral laboratories within acceptable timeframes?	Y	Р	N		2

8.5	Are referred specimens tracked properly using a logbook or tracking form?	Υ	P	N	2
	r d: " The laboratory shall maintain a register of all referral log must be reviewed routinely for outstanding results an				register shall be kept of all samples that have been referred to another laboratory" The
	89: 4.5.3				
8.6	Is complete procedure manual available	Υ		NI NI	3
	at the workstation or in the work area?	T	P	N	
languag	rd: "All procedures shall be documented and be available e commonly understood by the staff in the laboratory." 189: 5.5.3	at the i	workstatio	on for rele	ant staff. Documented procedures and necessary instructions shall be available in a
8.7	Is there a reagent logbook for lot number				2
	and dates of opening that reflects	Υ	P	N	
	verification of new lots?	'		IN	
					vice shall not be used until they have been verified as complying with standard
	ations or requirements defined for the procedures concer 189: 4.6.2	ned. Thi	s may be	accompli	thed by examining quality control samples and verifying that results are acceptable."
	Is each new lot number, new shipment of				2
0.0	reagents, or consumables verified before			١	
	use?	Y	P	N	
Standa	rd: "Purchased equipment and consumable supplies that	affect th	ne quality	of the ser	rice shall not be used until they have been verified as complying with standard
specifica					thed by examining quality control samples and verifying that results are acceptable."
	Is internal quality control performed,		Τ		3
"	documented, and verified before	V			
	releasing patient results?	Y	P	N	
Ctondo	The laboratory shall design internal quality control ave	tomo the	ot vorify t	ho ottoinn	ant of the intended quality of regulte. It is important that the central system provide state
	ra: The laboratory shall design internal quality control systems with clear and easily understood information on which t				ent of the intended quality of results. It is important that the control system provide staf al decisions
	189: 4.2.2, 5.6.1	I			
8.10	Are QC results monitored and reviewed				3
	(biases, shifts, trends, and Levy- Jennings charts)? Is there				
	documentation of corrective action when	Y	P	N	
	quality control results exceed the				
	acceptable range in a timely manner?				
Standa	rd: "The laboratory shall design internal quality control sy	stems th	at verify t	the attaini	nent of the intended quality of results."" As part of the Laboratory internal quality contro
	L-J charts shall be used to monitor quantitative tests on 189: 5.6.1	a daily b	pasis and	reviewed	routinely.
	Are environmental conditions checked		Τ		2
	and reviewed accurately?	Y	Р	N	
		Tic	k for eac	h item	
Are the	e following environmental conditions checked				
daily?	g	Yes	No	N/A	
Room	temperature				
Freeze	ers				
Refrige	erator				
Incuba	tors			+	
Water					
		ronmont	tal conditi	ione ac ro	quired by relevant specifications or where they may influence the quality of the results.
ISO 151	89: 5.2.5	·	ai conuiu	uns, as re	quired by relevant specifications of where they may influence the quality of the results.
8.12	2 Have acceptable ranges been defined for				
	all temperature- dependent equipment		_		
	with procedures and documentation of	Y	P	N	
	action taken in response to out of range temperatures?				
Standa		Pro 71-	.⊥ 07, May 2	20, 2010.	'Acceptable ranges or criteria must be defined, with documentation of action taken in
	e to out of range temperatures."		-		

8.13 Does the laboratory participate in external Proficiency Testing (PT) or exercise an alternative performance assessment system when appropriate?	Y	Р	N		3		
Are the following criteria met?		for each	item		•		
	Yes	No	N/A				
Are blinded characterized samples routinely distributed for testing to determine accuracy?							
Do PT samples come from providers who are accredited or approved?							
Are PT specimens handled and tested the same way as patient specimens?							
Is cause analysis performed for unacceptable PT results?							
Is corrective action documented for unacceptable PT results?							
Standard: The laboratory should handle, analyze, review, and re problems identified by unacceptable proficiency testing should be ISO 15189: 4.2.2, 5.6.4, 5.6.5, 5.6.7	port resul documer	ts for pronted. Acc	ficiency to eptable re	esting in manner similar to regular patient testing. Investigation and correct esults that show bias or trends suggest a problem should also be investiga	ion of ted.		
8.14 Are test requests checked with test results, thereby assuring the accuracy and completion of all tests?	Y	Р	N		2		
Standard: "Authorized personnel shall systematically review he results of examinations, evaluate them in conformity with the clinical information available regarding the authorized the release the results." A standard procedure should be followed for crosschecking all results. In instances where there is a LIS (laboratory information system printing of the pending reports list should be done routinely to cross-check the completion of all tests within the defined turnaround times. ISO 15189: 5.7.1							
SECTION 8: PROCESS CONTROL and IN	ITERN	AL &	EXTE		33		

	ach item, please circle either Yes (Y), Parti te "yes". Provide explanation or further cor				ll elements of the question must be satisfactorily prese artial" or "no" response.	ent to
		Υ	Р	N	Comments	Score
9.0	INFORMATION MANAGEMENT					
9.1	Test Result Reporting System Are test results legible, technically verified by an authorized person, and confirmed against patient identity?	Y	Р	N		2
indicate	rd: Results must be written in ink, written clearly with no m verification of the results. There must be signature or iden 189: 5.8.3				ancellation must follow Good Lab Practices. The persons performing the te izing the release of the report.	st must
9.2	Testing Personnel Are testing personnel identified on the requisition and record?	Y	P	N		2
ISO 151	rd: The person who performed the procedure must be ider 189: 5.4.7 "All primary samples received shall be recorded s, as well as the identity of the receiving officer, shall be rec	l in an a	ccession l	ort for pur book, woi	poses of audit trail. rksheet, computer or other comparable system. The date and time of recei	pt of
9.3	Test Result Records Are test results recorded in a logbook or electronic record in a timely manner?	Y	Р	N		2
	rd: In line with maintaining agreed turnaround times, the Lashall be maintained.	aborato	ry shall pe	erform an	d record test results in a timely manner and confidentiality of reported and	stored result
	Analytic System/Method Tracing When more than one instrument is in use for the same test, are test results traceable to the equipment used for testing?	Y	Р	N		2
	rd: It is important that the laboratory has the ability to trace on results.	e specin	en result	s to a spe	 ecific analytical system or method. Proficiency testing specimens would als	o fall under
	Result Cross-check System Is there a system for reviewing for transcription errors?	Y	Р	N		2
Standar ISO 151	rd: The laboratory must have a system for cross-checking 189: 5.8.3 "Results shall be legible, without mistakes in tra	of resul anscripti	ts before on and re	release to eported to	o requesters in order to identify and correct errors persons authorized to receive and use medical information."	
9.6	Archived Data Labeling and Storage Are archived results (paper or datastorage media) properly labeled and stored in a secure location accessible only to authorized personnel?	Y	Р	N		2
Standar ISO 151	rd: All patient data, paper, tapes, disks should be properly 189: 5.8.3 Annex B 6.4.	labeled	and store	ed secure	ly in places accessible only to authorized personnel.	
9.7	Information and Data Backup System Are there documented procedures to prevent the loss of test result data in the event of hardware/software failure, fire or theft?	Y	Р	N		2
include t	rd: The laboratory should have a procedure to protect esset flood and fire safe storage of data, periodic backing up and 189: 5.8.3 Annex B 3.3.				 equipment failure and/or an unexpected destructive event. These procedur id off-site storage of backup data.	es could

I.8 Test Result Report Is the laboratory result report(s) in a standard form determined to be acceptable by its customers?	Y	Р	N
Indicate for each item	Tick Yes	for each	item
Is the laboratory issuing the report clearly identified?			
Does the report contain the patient's name, address, and the hospital/destination of the report?			
Is the name of the person requesting the test indicated on the report?			
Is the type of sample received and the test requested included in the report?			
Are the date and time for specimen collection, receipt of specimen, and release of report indicated?			
Does the report indicate biological reference ranges for each test?			
Is the result reported in SI units where applicable?			
Is there space for interpretation of results, when applicable, and for indication of when specimens are received and unsuitable for the procedure requested for testing?			
Does the result contain the name of the person authorizing release of the report and the signature of the person accepting responsibility for its content?			
9.9 Test Result Are test results validated, interpreted and released by appropriately-authorized personnel?			
SECTION 9: INFORMATION MANAGEMEN	UT Cı	ihtota	

For each item, please circle either Yes (Y), Partia "yes". Provide explanation or further comments f				l elements of the item must be satisfactorily present to	indicate
yes . Frovide explanation of futilier comments i	Y	<i>.</i> п рап	N	Comments	Score
10.0 CORRECTIVE ACTION					
10.1 Are all laboratory-documented occurrence reports indicating the root cause of the problem(s) and corrective & preventive actions taken to prevent recurrence?	Y	Р	N	There must be at least a description of what happened and what was done to prevent it from happening again.	5
Standard: "Laboratory shall have a policy and procedures for the recomplaints and of investigations and corrective actions taken by the ISO 15189: 4.8	esolutio e labora	n of comp tory shall	plaints or be main	other feedback received from clinicians, patients or other parties. Records tained."	of
10.2 Is non-conforming work reviewed and submitted for troubleshooting and cause analysis?	Y	Р	N		2
lead to preventive actions. Corrective action shall be appropriate to	the ma	gnitude o	f the prot	ne the underlying cause or causes of the problem. These shall, where approblem and commensurate with possible risks." "The laboratory shall docum iciencies identified shall be acted upon and records of actions retained."	
10.3 Is corrective action performed on all non- conforming aspects of the quality management system documented?	Y	Р	N		3
Indicate for each item	Tick	for each	item		
	Yes	No			
Are results withheld, if indicated by the level of control violated? ISO 4.9.1 part d					
Have these been recalled and corrected, if results have been released? ISO 4.9.1 part f					
Is this approved by an authorized person, when testing resumes? ISO 4.9.1.part g					
Standard: "Laboratory management shall have a policy and proce procedures or the agreed upon requirements of its quality manager ISO 15189:4.9				when it detects that any aspect of its examinations does not conform with its ting clinicians."	s own
10.4 Are discordant results tracked and appropriate corrective action taken?	Y	Р	N		2
Standard: "Procedures for corrective action shall include an invest ISO 15189: 4.10.1	igative p	process to	determi	ne the underlying cause or causes of the problem."	
SECTION 10: CORRECTIVE ACTION Subtotal					12

indicate "yes". Provide explanation or further con	ninen	101 6	aυπ ρ	· · · · · · · · · · · · · · · · · · ·	C -
	Y	Р	N	Comments	Score
11.0 OCCURRENCE / INCIDENT MA	NAG	EME	NT 8	PROCESS IMPROVEMENT	
11.1 Are graphical tools (charts and graphs) used to communicate quality findings and identify trends?	Υ	P	N		2
	ectively th	han tables	s of numb	olve analysis of data, including trend-and risk-analyses and external quality bers. Examples of graphical tools commonly used for this purpose include P	
11.2 Are quality indicators (TAT, rejected specimens, stock outs, etc.) selected, tracked, and reviewed regularly to monitor laboratory performance and identify potential quality improvement activities?	Y	P	N		5
11.3 Are the outcomes of internal and external audits, PT, customer feedback and all other information derived from the tracking of quality indicators used to improve lab performance?	Y	P	N		3
11.4 Is the outcome of the action taken checked and monitored to determine the effectiveness of improved quality of lab performance?	Y	Р	N		2
				γ monitoring and evaluating the laboratory's contributing These indicators sh	
ts examinations. A tumaround time shall reflect clinical needs." K ndicators should be drawn from pre-analytic, analytic, and post-ar	Key indica nalytic pl	ators of quality hases and	uality mu d reflect a	ent, in consultation with the requesters, shall establishes turnaround times t ust be monitored regularly and evaluated for opportunities to improve testing activities critical to patient outcomes, those that correspond to a large propo- uld be compared against a benchmark from an acknowledged guideline.	g services.
SECTION 11: OCCURRENCE/INCIDENT MGT	, & PI	ROCES	S IMP		12

For each item, please circle either Yes (Y), Parti indicate "yes". Provide explanation or further co				ll elements of the question must be satisfactorily prese	nt to
mandate yes . Frevide explanation of farther ser	Υ	P	N	Comments	Score
12.0 FACILITIES & SAFETY					
12.1 Is the size of the laboratory adequate and the layout of the laboratory, as a whole, organized so that workstations are positioned for optimal workflow?	Y	Р	N		2
Standard: The laboratory floor plan should be configured to promi	ote high	quality v	vork, perso	onnel safety, and efficient operations.	
12.2 Are the patient care and testing areas of the laboratory distinctly separate from one another?	Y	Р	N		2
contamination." Client service areas (i.e., waiting room, phlebotom	ny room)	should l	be distincti	h there are incompatible activities. Measures shall be taken to prevent cro ly separate from the testing areas of the laboratory. Client access should n ing should be segregated in a separate room(s) from the general laborator	ot
12.3 Is each individual workstation maintained free of clutter and set up for efficient operation?	Y	Р	N		2
Are the following criteria met:	Ticl	for eac	h item		
	Yes	No	N/A		
Does the equipment placement/layout facilitate optimum workflow?					
Are all needed supplies present and easily accessible?					
Are the chairs/stools at the workstations appropriate for bench height and the testing operations being performed? ISO 15190: 6.3.5					
Is reference material readily available (critical values and required action, population reference ranges, frequently called numbers?					
CAP Standard: Age-and sex-specific reference intervals (normal practical, then the laboratory should carefully evaluate the use of page General Checklist, GEN.42162, 2010	values) oublishe	must be d data fo	verified or r its own r	established by laboratory. If a formal reference intervals study is not possible eference ranges, and retain documentation of this evaluation.	ible or
12.4 Is the physical work environment appropriate for testing?	Y	Р	N		2
Is the workplace:	Ticl Yes	for eac	h item N/A		
Free of clutter?	163	140	IV/A		
ISO 15190: 13.0					
Adequately ventilated?					
ISO 15190: 6.3.3					
Free of excess humidity? ISO 15190: 6.3.3					
Adequately lit? ISO 15190: 6.3.1					
Climate-controlled for optimum equipment function?					
ISO 15190: 6.3.2 Are filters checked, cleaned and/or replaced at regular intervals, where air-conditioning is installed?					

Are wires and cables properly located and protected from traffic?					
Is there a functioning back-up power supply					
(generator)? Is critical equipment supported by uninterrupted					
power source (UPS) systems?					
Is equipment placed appropriately (away from water hazards, out of traffic areas)?					
Is a contingency plan in place for continued testing in the event of prolonged electricity disruption?					
Are appropriate provisions made for adequate water supply, including deionized water (DI) or distilled water, if needed?					
Is clerical work completed outside the testing area?					
Is major safety signage posted and enforced including NO EATING, SMOKING, DRINKING?					
documentation. The laboratory should be clean and well organized supply should be adequate for refrigerators, freezers, incubators, or emergency power may also be required for the preservation of rea 5.2.5 and 5.2.10 and CAP GEN.66100, General Checklist, 2010	d, free o etc., to e agents, t	f clutter, w ensure pre	vell ventila eservation	afety of personnel, and the ability of staff to carry out quality control proced ated, adequately lit, and within acceptable temperature ranges. "Emergend of patient specimens. Depending on the type of testing performed in the la oratory instruments, and the functioning of the data processing system." Is	cy power aboratory,
12.5 s the laboratory properly secured from					2
unauthorized access with appropriate signage?	Y	P	N		
equipment. Unnecessary traffic also disturbs workflow and can dis ISO 15189: 5.2.7				avoid the unnecessary contact of individuals with contaminated areas, rea	gents, or
12.6 Is laboratory-dedicated cold and room temperature storage free of staff food					2
items, and are patient samples stored separately from reagents and blood products in the laboratory refrigerators and freezers?	Y	P	N		
Standard: Staff food items should be stored in separate locations products should be stored separately when refrigerated or frozen. ISO 15190: 11.1	dedicat	ed to that	purpose,	not in laboratory storage areas, particularly cold storage. Laboratory reage	ents and blood
12.7 Is the work area clean and free of leakage & spills, and are disinfection procedures conducted and documented?	Y	P	N		2
Standard: The work area should be regularly inspected for cleanly should be disinfected at the beginning and end of every shift. All si ISO 15189: 5.2.10; ISO 15190:13				opriate disinfectant should be used. At a minimum, all bench tops and wor nmediately and the work surfaces disinfected.	king surfaces
12.8 Is a certified and appropriate Biosafety cabinet (or an acceptable alternative processing procedure) in use for all specimens or organisms considered to be highly contagious by airborne routes? (Biosafety cabinet should be recertified according to national protocol).	Y	Р	N	If required by testing activities.	2
Standard: A Biosafety cabinet should be used for to prevent aero. require periodic maintenance and should be serviced accordingly. ISO 15190: 16		sure to co	 ontagious	specimens or organisms. For proper functioning and full protection, Biosa	lety cabinets

12.9 Is a laboratory safety manual available, accessible, and up-to-date?	Y	Р	N		3
	Ticl	for each	n item		
Does the safety manual include guidelines on the following topics?	Yes	No	N/A		
Blood and Body Fluid Precautions					
Hazardous Waste Disposal					
Hazardous Chemicals / Materials					
MSDS Sheets					
Personal protective equipment					
Vaccination					
Post-Exposure Prophylaxis					
Fire Safety					
Electrical safety					
Standard: A safety manual shall be readily available in work area shall be reviewed and updated at least annually by laboratory mail ISO 15190: 7.4			ding for a	ll employees. The manual shall be specific for the laboratory's needs. The S	Safety Manua
12.10 Is sufficient waste disposal available and is waste separated into infectious and non-infectious waste, with infectious waste autoclaved?	Y	P	N		2
Standard: Waste should be separated according to biohazard ris into containers that do not leak and are clearly marked with a biol	nazard s	ymbol. Sh	narp instru	Infectious waste disposed of in separate containers. Infectious waste should uments and needles should be discarded in puncture resistant containers. Be potentially infectious material. To prevent injury from exposed waste, infec	Both infectious
12.11 Are hazardous chemicals / materials					2
properly handled?	Y	Р	N		
		for each	1		
Are hazardous chemicals properly labeled?	Yes	No	N/A		
Are hazardous chemicals properly stored?					
Are hazardous chemicals properly utilized?					
Are hazardous chemicals properly disposed?					
				narkings clearly indicated. Flammable chemicals must be stored out of sunli orrosive agents should be separated from one another. Distinct care should	
12.12 Are 'sharps' handled and disposed of					2
properly in 'sharps' containers that are appropriately utilized?	Y	Р	N		
are not overfilled. Sharps containers should be clearly marked to ISO 15189: 5.2.10;CAP GEN.773100, General Checklist, 2010				g infection must be used only once and discarded in puncture resistant contial hazard and should be located in areas where sharps are commonly used	
12.13 Is fire safety included as part of the laboratory's overall safety program?	Y	Р	N		2
	Ticl	for eacl	n item		
	Yes	No	N/A		
Are all electrical cords, plugs, and receptacles used appropriately and in good repair?					
Is an appropriate fire extinguisher available, properly placed, in working condition, and routinely inspected? ISO 15190: 19.7					
Is an operational fire warning system in place in laboratory with periodic fire drills?					

			_		
ISO 15190: 9.3					
Standard: Electrical chords and plugs, power-strips, and receptac	les shou	uld be ma	aintained i	n good condition and utilized appropriately. Overcrowding should be avoide	ed and chords
				ble within the laboratory and be routinely inspected and documented for rea	
				eal should be intact, nozzles should be free of blockage, pressure gauges s	
	e. A fire	alarm sh	nould be ii	nstalled in the laboratory and tested regularly for readiness and all staff sho	uld
participate in periodic fire drills.					_
12.14 Are safety inspections or audits					2
conducted regularly and documented?	Y	P	N		
,					
Standard: Safety inspections or audits, using a safety checklist, s.	hould be	e conduct	ted period	ically to ensure the laboratory is a safe work environment and identify areas	s for redress
and correction.			,	, ,	
ISO 15190 7.3.1 and 7.3.2					
12.15 Is standard safety equipment available					2
and in use in the laboratory?	Υ	P	N		
and in use in the laboratory:	' '	'	'		
	Tiek	for each	h itam		
	Yes	No	N/A		
D: (()	162	NO	IN/A		
Biosafety cabinet(s)					
ISO 15190: 16					
Covers on centrifuge(s)					
<u> </u>					
Hand-washing station					
ISO 15190: 12.7					
Eyewash station/bottle(s) and showers where					
applicable					
ISO 15190: 12.10					
Spill kit(s)					
,					
First aid kit(s)					
ISO 15190: 12.9					
	uro tho	laharatan	v io oguin	। ped with standard safety equipment. The list above is a partial list of necess	oon, itomo
				id washing stations should be designated and equipped and eyewash static	
				and first aid kits should be kept in a designated and equipped and eyewash static and first aid kits should be kept in a designated place and checked regularly	
readiness. ISO 15190: 5.1	ile and o	регавіе.	Opili Kito (and mist and hits should be kept in a designated place and checked regularly	101
12.16 Is personal protective equipment (PPE)			Т		2
					_
easily accessible at the workstation and	Υ	P	N		
utilized appropriately and consistently?	-	-			
				—gloves, lab coats, eye protection, etc. — in useable condition. Laboratory	
	Protecti	ive clothir	ng should	not be worn outside the laboratory. Gloves should be replaced immediately	when torn or
contaminated and not washed for reuse.					
ISO 15190: 12					_
12.17 Are laboratory personnel offered					2
appropriate vaccination//preventive	Υ	P	N		
measures?	T		IN		
Standard: Laboratory staff should be offered appropriate vaccinat	ionsna	ı articularly	Henatitis	B. Staff may decline to receive the vaccination, but should sign a declinatio	n form to be
held in the staff member's personnel file.	юно ра	irtioururiy	Порашио	2. Stair may docume to receive the vaccination, but chedia dight a document	11 101111 10 00
ISO 15190: 11.3					
12.18 Are post-exposure prophylaxis policies			I		2
and procedures posted and implemented					
	Υ	P	N		
after possible and known exposures?					
				aneous, mucus membrane, or abraded skin exposure to HIV, HBV, or HCV	'. The
procedure should include clinical and serological evaluation and a	ppropria	ite prophy	ylaxıs.		
ISO 15190: 9					
12.19 Are occupational injuries, medical					2
screening or illnesses documented in the					
safety occurrence log?	Y	P	N		
,					
Standard: All occupational injuries or illnesses should be thorough	hly inves	stigated a	nd docun	nented in the safety log or occurrence log, depending on the laboratory. Cor	rective
actions taken by the laboratory in response to an accident or injury					
ISO 15190: 9					
12.20 Are drivers/couriers and cleaners					2
	Υ	P	N		
working with the laboratory trained in	1	Ι .	1		

	Biosafety practices relevant to their job tasks?								
Standard: All occupational injuries or illnesses should be thoroughly investigated and documented in the safety log or occurrence log, depending on the laboratory. Corrective actions taken by the laboratory in response to an accident or injury must also be documented. ISO 15190: 10									
i F	Is a trained safety officer designated to implement and monitor the safety program in the laboratory, including the training of other staff?	Y	P	N		2			
Standard: A safety officer should be designated to work with the laboratory manager to implement the safety program, monitor the ongoing safety conditions and needs of the laboratory, coordinate safety training, and serve as a resource for other staff. This officer should receive safety training.									
SECTION 12: FACILITIES & SAFETY Subtotal									

ETHICAL PRINCIPLES IN LABORATORY MEDICINE

Laboratories shall uphold the principle that the welfare and interest of the patient are paramount and patients should be treated fairly and without discrimination. (ISO 15189 Annex C.2.1)

Every medical laboratory shall provide its services to all users in a manner that respects their health rights and without discrimination. (ISO 15189 Annex C 2.2)

Every medical laboratory shall ensure that patient consent is obtained for all procedures carried out on the patient. In emergency situations, if consent is not possible under these circumstances, necessary procedures may be carried out, provided they are in the best interest of the patient. (ISO 15189 Annex C 4.1)

Medical laboratories should have in place policy guidelines that address conflicts of interest, undue internal or external pressure, and confidentiality that could influence the credibility of the work conducted and information generated by the laboratory. (ISO 15189 Clause 4.1.4 and 4.1.5 b, c, d and 5.1.13)

Personnel employed within medical laboratories shall not compromise their organization by engaging in activities that could adversely affect quality of work, competence, impartiality, judgment or operational integrity. (ISO 15189 Clause 4.1.5 b, d).

Criteria	Are internal quality control procedures routinely	FREQUENCY			
1	conducted for all test methods?	Daily	Weekly	W/	
				Every Run	
1.1	Monitoring of control values				
	Quantitative tests				
	Semi-quantitative tests				
	Qualitative tests				
1.2	Monitoring with internal standards				
	Quantitative tests				
	Semi-quantitative tests				
	Qualitative tests				
1.3	Monitoring quality of each new batch of kits				
	Quantitative tests				
	Semi-quantitative tests				
	Qualitative tests				
1.4	Documentation of internal controls and kits validation				
	Quantitative tests				
	Semi-quantitative tests				
	Qualitative tests				
COMMEN	ITS and RECOMMENDATIONS				

Criteria 2	Has the laboratory achieved acceptable PT results of at least 80% on the two most recent PT challenges?	Date of panel receipt	Were results reported within 15 days?		Results & % Correct	
	HIV Serology	%				
2.1	Most recent HIV panel		Υ	N		
2.2	Second most recent HIV panel		Υ	N		
	HIV DNA PCR				%	
2.3	Most recent HIV DNA PCR panel		Υ	N		
2.4	Second most recent HIV panel		Υ	N		
	HIV Viral Load				%	
2.5	Most recent HIV DNA PCR panel		Υ	N		
2.6	Second most recent HIV panel		Υ	N		
	CD4 Count	%				
2.7	Most recent CD4 panel		Υ	N		
2.8	Second most recent CD4 panel		Υ	N		
	Chemistry				%	
2.9	Most recent Chemistry panel		Υ	N		
2.10	Second most recent Chemistry panel		Υ	N		
	Hematology					
2.11	Most recent Hematology panel		Υ	N		
2.12	Second most recent Hematology panel		Υ	N		
	Malaria		-	-	%	
2.13	Most recent Malaria panel		Υ	N		
2.14	Second most recent Malaria panel		Υ	N		
	Mycobacterium tuberculosis		-	-	%	
2.15	Most recent TB smear panel		Υ	N		
2.16	Second most recent TB smear panel		Υ	N		
2.17	Most recent TB culture panel		Υ	N		
2.18	Second most recent TB culture panel		Υ	N		
2.19	Most recent drug susceptibility panel		Υ	N		
2.20	Second most recent drug susceptibility panel		Υ	N		
	Other disease of public health significance (please specify)				%	
2.21	Most recent PT panel		Υ	N		
2.22	Second most recent PT panel		Υ	N		
	Other disease of public health significance (please specify)				%	
2.23	Most recent PT panel		Υ	N		
2.24	Second most recent PT panel		Υ	N		

PART III: SUMMARY OF AUDIT FINDINGS				
SUMMARY				
Noted Commendations				
Noted Challenges				
Noted Onlinenges				
RECOMMENDATIONS				

ACTION PLAN (if applicable) Follow-up Actions Responsible Person Timeline Signature						
Follow-up Actions	Responsible Person	Timeline	Signature			

Criteria for (5 star certification and accreditation of international standards)

- 1. Test results are reported by the laboratory on at least 80% of specimens within the turnaround time specified (and documented) by the laboratory in consultation with its clients. Turnaround time to be interpreted as time from receipt of specimen in laboratory until results reported. DATA NOT COLLECTED ON THIS ELEMENT
- 2. Internal quality control (IQC) procedures are practiced for all testing methods used by the laboratory.

Ordinarily, each test kit has a set of positive and negative controls that are to be included in each test run. These controls included with the test kit are considered internal controls, while any other controls included in the run are referred to as external controls. QC data sheets and summaries of corrective action are retained for documentation and discussion with auditor.

3. The scores on the two most recent WHO AFRO approved proficiency tests are 80% or better.

Proficiency test (PT) results must be reported within 15 days of panel receipt. Laboratories that receive less than 80% on two consecutive PT challenges will lose their certification until such time that they are able to successfully demonstrate achievement of 80% or greater on two consecutive PT challenges. Unacceptable PT results must be addressed and corrective action taken.

NOTE: A laboratory that has failed to demonstrate achievement of 80% or greater on the two most recent PT challenges will not be awarded any stars, regardless of the checklist score they received upon audit.

Score on annual on-site inspection is at least 55% (at least 142 pts):					Score		Y	N
No Stars (0 – 141 pts) < 55%	1 Star (142 – 166 pts) 55 – 64%	2 Stars (167 – 192 pts) 65 – 74%	3 Stars (193 – 218 pts) 75 – 84%	4 Stars (219 – 243 pts) 85 – 94%		5 Stars (244 – 258 pts) ≥95%		3 pts)
Lead Auditor Si Date	ignature							

SOURCES CONSULTED

AS 4633 (ISO 15189) Field Application Document: 2009

Centers for Disease Control - Atlanta - Global AIDS Program. (2008). Laboratory Management Framework and Guidelines. Atlanta, GA: Katy Yao, PhD.

CLSI/NCCLS. Application of a Quality Management System Model for Laboratory Services; Approved Guideline—Third Edition. CLSI/NCCLS document GP26-A3. Wayne, PA: NCCLS; 2004. www.clsi.org.

CLSI/NCCLS. A Quality Management System Model for Health Care; Approved Guideline—Second Edition. CLSI/NCCLS document HS01-A2. Wayne, PA: NCCLS; 2004. www.clsi.org.

College of American Pathologists, USA. (2010). Laboratory General and Chemistry and Toxicology Checklists.

Guidance for Laboratory Quality Management System in the Caribbean - A Stepwise Improvement Process. (2012).

International Standards Organization, Geneva (2007) Medical Laboratories – ISO 15189: Particular Requirements for Quality and Competence, 2nd Edition.

Ministry of Public Health, Thailand. (2008). Thailand Medical Technology Council Quality System Checklist.

National Institutes of Health, (2007, Feb 05). DAIDS Laboratory Assessment Visit Report. Retrieved July 8, 2008, from National Institutes of Health Web site: http://www3.niaid.nih.gov/research/resources/DAIDSClinRsrch/Laboratories.htm.

National Institutes of Health, (2007, Feb 05). Chemical, Laboratory: Quality Assurance and Quality Improvement Monitors. CHECKLIST FOR SITE SOP REQUIRED ELEMENTS, Retrieved July 8, 2008, from http://www3.niaid.nih.gov/research/resources/DAIDSClinRsrch/Laboratories.htm.

National Institutes of Health, (2007, Feb 05). Laboratory: Chemical, Biohazard and Occupational Safety, Containment and Disposal. CHECKLIST FOR SITE SOP REQUIRED ELEMENTS, Retrieved July 8, 2008, from http://www3.niaid.nih.gov/research/resources/DAIDSClinRsrch/Laboratories.htm.

PPD, Wilmington, North Carolina, (2007). Laboratory Report.

South African National Accreditation System (SANAS). (2005). Audit Checklist, SANAS 10378:2005.

USAID Deliver Project. The Logistics Handbook. (2007). Task Order 1.