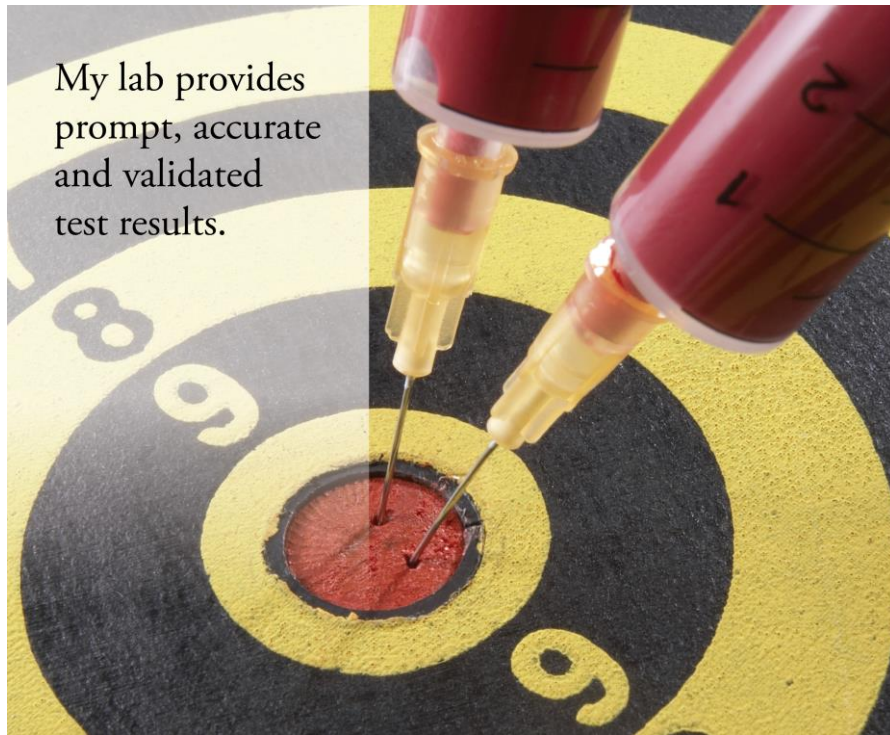


MODULE 8

Laboratory Testing

My lab provides
prompt, accurate
and validated
test results.



SLMTA Participant's Manual

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NOTE: Print this document single-sided and in color if possible.

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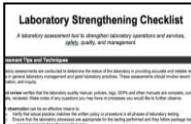
ACTIVITY SUMMARY SHEET

ACTIVITY	Validation of Test Results	Module 8
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PURPOSE:

The total testing process can be divided into three phases, the pre-analytical phase, the analytical phase, and the post analytical phase. A problem or error in any of the three phases can invalidate the results of the entire testing process. In this activity, participants identify the potential sources of errors or problems and create a checklist to verify patient results before their release.

This activity supports the following laboratory management tasks and SLIPTA checklist items

<p>Management Tasks</p> 	<ul style="list-style-type: none"> 6.4 Validate new equipment, reagents, and supplies 7.3 Enforce good specimen handling and processing practices 8.4 Validate assigned tests and specific abnormal results
<p>Checklist Items</p> 	<ul style="list-style-type: none"> 1.2 <u>Laboratory Quality Manual</u> Is there a current laboratory quality manual, composed of the quality management system's policies and has the manual content been communicated to, understood and implemented by all staff? 1.5 <u>Laboratory Policies and Standard Operating Procedures</u> Are policies and/or standard operating procedures (SOPs) for laboratory functions, technical and managerial procedures current, available and approved by authorized personnel? (Purchasing and Inventory Control; Pre-examination Processes; Validation and Verification of examination procedures / Equipment; Quality Control and Quality Assurance) 6.1 <u>Internal Audits</u> Are internal audits conducted at intervals as defined in the quality manual and do these audits address areas important to patient care? 7.10 <u>Product Expiration</u> Are all reagents/test kits in use (and in stock) currently within the manufacturer-assigned expiration or within stability? 8.1 <u>Information for Patients and Users</u> Are guidelines for patient identification, specimen collection (including client safety), labelling, and transport readily available to persons responsible for primary sample collection? 8.2 Does the laboratory adequately collect information needed for examination performance? 8.3 Are adequate sample receiving procedures in place? 8.4 <u>Pre-examination Handling, Preparation and Storage</u> Where testing does not occur immediately upon arrival in the laboratory, are specimens stored appropriately prior to testing? 8.7 <u>Documentation of Examination Procedures</u> Are examination procedures documented in a language commonly understood by all staff and available in appropriate locations? 8.8 <u>Reagents Acceptance Testing</u> Is each new reagent preparation, new lot number, new shipment of reagents or consumables verified before use and documented? 8.9 <u>Quality Control</u> Is internal quality control performed, documented, and verified for all tests/procedures before releasing patient results? 8.12 Are environmental conditions checked and reviewed accurately? 9.1 <u>Test Result Reporting System</u> Are test results legible, technically verified by an authorized person, and confirmed against patient identity? 9.2 <u>Testing Personnel</u> Are testing personnel identified on the result report or other records (manual or electronic)? 9.3 <u>Report Content</u> 9.8 <u>Test Result</u> Are test results validated, interpreted and released by appropriately-authorized personnel? 10.3 Is corrective action performed and documented for non-conforming work?

**KEY MESSAGES**

- The assurance of quality laboratory results relies on a commitment to assess all aspects of the total testing process.
- A problem or error in any of the three phases can invalidate the results of the entire testing process.
- For a QA program to be effective, the necessary policies and procedures must be developed and available to staff members.

Can you:


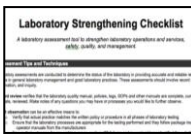
- Recognize that a problem or error in any of the three phases can invalidate the results of the whole testing process?
- Identify potential pitfalls at each phase of the total testing process?
- Create a checklist to verify areas before patient results are released?

**SELF-ASSESSMENT**

ACTIVITY SUMMARY SHEET

ACTIVITY	Is the Test Report Ready To Be Released?	Module 8
PURPOSE:		
<p>Test result reports should be complete, accurate, legible, and clinically valid. In this activity, participants cross-check a test report to identify errors and omissions that must be resolved before the report is released.</p>		

This activity supports the following laboratory management tasks and SLIPTA checklist items

<p>Management Tasks</p> 	<ul style="list-style-type: none"> 8.1 Monitor testing to ensure SOPs are followed and tests are performed and reported properly and promptly 8.2 Cross-check test reports against test request to ensure completion of all tests 8.3 Review test records and findings promptly to ensure accuracy and timely release of test results 8.4 Validate assigned tests and specific abnormal results 9.1 Aggregate and report all test findings for each patient
<p>Checklist Items</p> 	<ul style="list-style-type: none"> 1.5 <u>Laboratory Policies and Standard Operating Procedures</u> Are policies and/or standard operating procedures (SOPs) for laboratory functions, technical and managerial procedures current, available and approved by authorized personnel? (Identification and Control of Nonconformities; Authorization; Reporting and Release of Results) 9.1 <u>Test Result Reporting System</u> Are test results legible, technically verified by an authorized person, and confirmed against patient identity? 9.2 <u>Testing Personnel</u> Are testing personnel identified on the result report or other records (manual or electronic)? 9.3 <u>Report Content</u> 9.4 <u>Analytic System/Method Tracing</u> When more than one instrument is in use for the same test, are test results traceable to the equipment used for testing? 9.8 <u>Test Result</u> Are test results validated, interpreted and released by appropriately-authorized personnel? 10.3 Is corrective action performed and documented for non-conforming work?

⤴ **KEY MESSAGES**

- A cross-check provides a quality step to review accuracy and reliability of results prior to release.
- Each test request should have a corresponding result that is accurate and clinically meaningful.
- Laboratory errors and omissions are best handled prior to their release from the laboratory. However the most efficient way to handle errors is to prevent their initial occurrence.

✓ **SELF-ASSESSMENT**

Can you:

- Cross-check a laboratory report identifying errors and omissions?
- Provide next steps to resolve or prevent the errors or omissions?

For this activity, you will need:

- Handout: Errors Noted (801)
- Worksheet 1: Laboratory Report (802)
- [Worksheet 2: Report for Review](#) (803)
- Job Aid: Cross-checking Guidelines (804)

Errors Noted⁸⁰¹

Cape Regional Laboratory

Report Date/Time: 5-10-2008 1500

Lab #: 32
 Drawn by: SL
 Collected Date/Time: 3-10-2008 0815

Hematology				Additional In-House Testing			
<input checked="" type="checkbox"/> CBC		Tech initials: SL		Tech initials: AM		Normal Values	
Results	Adult Normal Values			<input checked="" type="checkbox"/> Urine Pregnancy	POS	NEG	N/A
15.3	WBC	3.3 - 10.0	3.4 - 9.8	<input type="checkbox"/> CRP	POS	NEG	NEG
3.94	RBC	4.35 - 5.9	3.69 - 5.13	<input type="checkbox"/> Malaria Rapid	POS	NEG	NEG
11.0	HGB	13.7 - 16.7	11.7 - 14.5	<input type="checkbox"/> RPR	WEAK REACTIVE	REACTIVE	NON REACTIVE
29.0	HCT	40.5 - 49.7	34.1 - 44.3	<input type="checkbox"/> KOH	Source:		
68.9	MCV	79.7 - 92.0	81.5 - 96.7	<input type="checkbox"/> Saline Prep			
22.6	MCH	26.1 - 33.3	26.5 - 33.5	<input type="checkbox"/> Gram Stain			
31.0	MCHC	32.2 - 35.0	31.9 - 35.3				
1.60	RDW	11.6 - 14.4					
22	PLT	140 - 440					
				CCMS Urinalysis			
<input checked="" type="checkbox"/> Differential		Tech initials: C		Tech initials: AM		Normal Values	
85	Neutrophils	45 - 66%		yellow	Color	N/A	
10	Bands (Neutrophilic)	1 - 12%		hazy	Appearance	N/A	
7	Lymphocytes	20 - 40%		ilo	Urobilinogen	<16 umol/L	
	Atypical Lymphocytes	0 - 2%		neg	Glucose	Negative (mmol/L)	
	Monocytes	4 - 10%		neg	Bilirubin	Negative (umol/L)	
	Eosinophils	1 - 6%		neg	Ketones	Negative (mmol/L)	
	Basophils	0 - 2%		1.052	Specific Gravity	1.005 - 1.030	
	Other			moderate	Blood	Negative	
RBC Morphology				<input type="checkbox"/> Normal Morphology			
	Anisocytosis			6.5	pH	5.0 - 8.0	
	Microcytosis			1.0	Protein	Negative (g/L)	
+2	Macrocytosis			(+)	Nitrite	Negative	
+1	Hypochromia			moderate	Leukocytes	Negative	
	Poikilocytosis			<input checked="" type="checkbox"/> Microscopic			
				10-20	WBC/HPF	Crystals:	
					RBC/HPF	Casts/LPF:	
					EPI-renal/HPF	EPI-squamous/HPF	
				5-10	Bacteria	Trichomonas / Yeast / Parasite:	
					Mucus		
Chemistry							
<input type="checkbox"/> Basic		<input type="checkbox"/> Comprehensive		<input type="checkbox"/> LFT		<input type="checkbox"/> Lipid	
Result	Normal (M / F)	Result	Normal (M / F)	Tech initials: O			
<input type="checkbox"/> GLUC	3.9 - 5.8 mmol/l -fasting	<input checked="" type="checkbox"/> ALT	30.1 < 41 / < 31 U/L				
<input checked="" type="checkbox"/> UREA	4.9 2.5 - 6.4 mmol/L	<input type="checkbox"/> AST	< 37 / < 31 U/L				
<input type="checkbox"/> Na	136 - 145 mmol/L	<input type="checkbox"/> ALP	53 - 128 / 42 - 98 U/L				
<input type="checkbox"/> K	3.5 - 5.3 mmol/L	<input type="checkbox"/> CK	38 - 171 / 26 - 145 U/L				
<input type="checkbox"/> Cl	98 - 110 mmol/L	<input type="checkbox"/> LDH	230 - 460 U/L				
<input checked="" type="checkbox"/> CREAT	418 62 - 115 / 53 - 97 umol/L	<input type="checkbox"/> AMY	27 - 102 U/L				
<input type="checkbox"/> URIC ACID	208 - 430 155 - 360 umol/L	<input checked="" type="checkbox"/> CALCIUM	2.15 - 2.50 mmol/L				
<input type="checkbox"/> T-PROT	64 - 83 g/L	<input checked="" type="checkbox"/> PHOS	0.87 - 1.45 mmol/L				
<input type="checkbox"/> ALBUMIN	6.0 35 - 52 g/L	<input type="checkbox"/> CHOL	3.6 - 5.7 mmol/L				
<input checked="" type="checkbox"/> T-BILI	2.5 5.1 - 20.5 umol/L	<input type="checkbox"/> TRIG	< 2.26 mmol/L				
<input checked="" type="checkbox"/> D-BILI	0.0 - 3.4 umol/L	<input type="checkbox"/> HDL-C	0.78 - 1.94 / 0.85 - 2.38 mmol/L				
<input type="checkbox"/> GGT	< 55 / < 38 U/L	<input type="checkbox"/> calc	< 1.71 - 5.44 / 1.48 - 5.80 mmol/L				
<input type="checkbox"/> Glucose Result by Glucometer	4.1 - 5.9 mmol/l -fasting						
Quality Assurance							
Date Requested: 3/10/08				Ordering Doctor: Smith			
<input checked="" type="checkbox"/> Routine				<input type="checkbox"/> Stat			
<input type="checkbox"/> Waiting				<input checked="" type="checkbox"/> Fasting			
<input type="checkbox"/> Non-Fasting				QA Review:			
Date: / /				Comments:			
Doctor Signature: _____							
Patient Information							
Name (surname, first): _____							
D.O.B.: / /				Age: [] Male [] Female			
Patient No.: _____							
Diagnosis: _____							

Laboratory Report⁸⁰²

**Cape Regional
Laboratory**

Lab #: 32
 Drawn by: SL
 Report Date/Time: 5-10-2008 1500
 Collected Date/Time: 3-10-2008 0815

Hematology				Additional In-House Testing			
<input checked="" type="checkbox"/> CBC		Tech initials: SL		Tech initials: AM		Normal Values	
Results	Adult Normal Values			<input checked="" type="checkbox"/> Urine Pregnancy	POS	NEG	N/A
15.3	WBC	M 3.3 - 10.0	F 3.4 - 9.8	<input type="checkbox"/> CRP	POS	NEG	NEG
3.94	RBC	4.35 - 5.9	3.69 - 5.13	<input type="checkbox"/> Malaria Rapid	POS	NEG	NEG
11.0	HGB	13.7 - 16.7	11.7 - 14.5	<input type="checkbox"/> RPR	WEAK REACTIVE	REACTIVE	NON REACTIVE
22.0	HCT	40.5 - 49.7	34.1 - 44.3	<input type="checkbox"/> KOH	Source:		
68.9	MCV	79.7 - 92.0	81.5 - 96.7	<input type="checkbox"/> Saline Prep			
22.6	MCH	26.1 - 33.3	26.5 - 33.5	<input type="checkbox"/> Gram Stain			
31.0	MCHC	32.2 - 35.0	31.9 - 35.3				
1.60	RDW	11.6 - 14.4					
122	PLT	140 - 440					
				CCMS Urinalysis			
<input checked="" type="checkbox"/> Differential		Tech initials:		Tech initials: AM		Normal Values	
85	Neutrophils	Adult Normal Values		yellow	Color	N/A	
10	Bands (Neutrophilic)	45 - 66%		hazy	Appearance	N/A	
7	Lymphocytes	1 - 12%		ib	Urobilinogen	<16 umol/L	
	Atypical Lymphocytes	20 - 40%		neg	Glucose	Negative (mmol/L)	
	Monocytes	0 - 2%		neg	Bilirubin	Negative (umol/L)	
	Eosinophils	4 - 10%		neg	Ketones	Negative (mmol/L)	
	Basophils	1 - 6%		1.052	Specific Gravity	1.005 - 1.030	
	Other	0 - 2%		moderate	Blood	Negative	
RBC Morphology				<input type="checkbox"/> Normal Morphology			
	Anisocytosis	Morphology Terms 1 = Slight 2 = Moderate 3 = Marked		6.5	pH	5.0 - 8.0	
	Microcytosis			1.0	Protein	Negative (g/L)	
+2	Macrocytosis			(+)	Nitrite	Negative	
+1	Hypochromia			moderate	Leukocytes	Negative	
	Poikilocytosis						
Chemistry				<input checked="" type="checkbox"/> Microscopic			
<input type="checkbox"/> Basic	<input type="checkbox"/> Comprehensive	<input type="checkbox"/> LFT	<input type="checkbox"/> Lipid	Tech initials			
	Result	Normal (M/F)	Result	Normal (M/F)	WBC/HPF	Crystals:	
<input type="checkbox"/> GLUC	3.9 - 5.8 mmol/l -fasting		<input checked="" type="checkbox"/> ALT	30.1	10-20	RBC/HPF	
<input checked="" type="checkbox"/> UREA	4.9	2.5 - 6.4 mmol/L	<input type="checkbox"/> AST	< 37 / < 31 U/L		EPI-renal/HPF	
<input type="checkbox"/> Na	136 - 145 mmol/L		<input type="checkbox"/> ALP	53 - 128 / 42 - 98 U/L	5-10	EPI-squamous /HPF	
<input type="checkbox"/> K	3.5 - 5.3 mmol/L		<input type="checkbox"/> CK	38 - 171 / 26 - 145 U/L		Bacteria	
<input type="checkbox"/> Cl	98 - 110 mmol/L		<input type="checkbox"/> LDH	230 - 460 U/L		Mucus	
<input checked="" type="checkbox"/> CREAT	418	62-115 / 53-97 umol/L	<input type="checkbox"/> AMY	27 - 102 U/L	Quality Assurance		
<input type="checkbox"/> URIC ACID		208-430 / 155-360 umol/L	<input checked="" type="checkbox"/> CALCIUM	2.15 - 2.50 mmol/L			
<input type="checkbox"/> T-PROT		64 - 83 g/L	<input checked="" type="checkbox"/> PHOS	0.87-1.45 mmol/L	Date Requested: 3/10/08		
<input type="checkbox"/> ALBUMIN		35 - 52 g/L	<input type="checkbox"/> CHOL	3.6 - 5.7 mmol/L	Ordering Doctor: Smith		
<input checked="" type="checkbox"/> T-BILI		5.1 - 20.5 umol/L	<input type="checkbox"/> TRIG	< 2.26 mmol/L	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Stat <input type="checkbox"/> Waiting <input checked="" type="checkbox"/> Fasting <input type="checkbox"/> Non-Fasting		
<input checked="" type="checkbox"/> D-BILI		0.0 - 3.4 umol/L	<input type="checkbox"/> HDL-C	0.78 - 1.94 / 0.85-2.38 mmol/L	QA Review:		
<input type="checkbox"/> GGT		< 55 / < 38 U/L	<input type="checkbox"/> calc LDL-C	< 1.71 - 5.44 / 1.48-5.80 mmol/L	Date: ___/___/___ Comments:		
<input type="checkbox"/> Glucose Result by Glucometer		4.1 - 5.9 mmol/l -fasting			Doctor Signature: _____		
				Patient Information			
				Name (surname, first): _____			
				D.O.B.: ___/___/___ Age: _____ <input type="checkbox"/> Male <input type="checkbox"/> Female			
				Patient No.: _____			
				Diagnosis: _____			

Report for Review⁸⁰³

Cape Regional Laboratory

platelet count verified by peripheral smear
critical plt called to Dr Smith at 1122 3-10-08
Report Date/Time: 3-10-2008 1500

Lab #: 32
Drawn by: SL
Collected Date/Time: 3-10-2008 0815

Hematology				Additional In-House Testing			
<input checked="" type="checkbox"/> CBC		Tech initials: SL		Tech initials: AM		Normal Values	
Results	Adult Normal Values			<input checked="" type="checkbox"/> Urine Pregnancy	POS	<input checked="" type="checkbox"/> NEG	N/A
15.3	WBC	3.3 - 10.0	3.4 - 9.8	<input type="checkbox"/> CRP	POS	NEG	NEG
3.96	RBC	4.35 - 5.9	3.69 - 5.13	<input type="checkbox"/> Malaria Rapid	POS	NEG	NEG
11.0	HGB	13.7 - 16.7	11.7 - 14.5	<input type="checkbox"/> RPR	WEAK REACTIVE	REACTIVE	NON REACTIVE
33.0	HCT	40.5 - 49.7	34.1 - 44.3	<input type="checkbox"/> KOH	Source:		
68.9	MCV	79.7 - 92.0	81.5 - 96.7	<input type="checkbox"/> Saline Prep			
22.6	MCH	26.1 - 33.3	26.5 - 33.5	<input type="checkbox"/> Gram Stain			
31.0	MCHC	32.2 - 35.0	31.9 - 35.3				
16.0	RDW	11.6 - 14.4					
22	PLT (22)	140 - 440					
<input checked="" type="checkbox"/> Differential				Tech initials: AM			
85	Neutrophils	45 - 66%		yellow	Color	N/A	
10	Bands (Neutrophilic)	1 - 12%		hazy	Appearance	N/A	
5	Lymphocytes	20 - 40%		16	Urobilinogen	<16 umol/L	
	Atypical Lymphocytes	0 - 2%		negative	Glucose	Negative (mmol/L)	
	Monocytes	4 - 10%		negative	Bilirubin	Negative (umol/L)	
	Eosinophils	1 - 6%		negative	Ketones	Negative (mmol/L)	
	Basophils	0 - 2%		1.025	Specific Gravity	1.005 - 1.030	
	Other			moderate	Blood	Negative	
RBC Morphology				Tech initials: AM			
<input type="checkbox"/> Normal Morphology				6.5	pH	5.0 - 8.0	
+1	Anisocytosis	Morphology Terms 1 = Slight 2 = Moderate 3 = Marked		1.0	Protein	Negative (g/L)	
+2	Microcytosis			positive	Nitrite	Negative	
	Macrocytosis			moderate	Leukocytes	Negative	
+1	Hypochromia			<input checked="" type="checkbox"/> Microscopic			
	Poikilocytosis			5-10	WBC/HPF	Crystals:	
Chemistry				Tech initials: AM			
<input type="checkbox"/> Basic <input type="checkbox"/> Comprehensive <input type="checkbox"/> LFT <input type="checkbox"/> Lipid				10-20	RBC/HPF	Casts/LPF:	
Result	Normal (M/F)	Result	Normal (M/F)	3-5	EPI-squamous /HPF	Trichomonas / Yeast / Parasite:	
<input type="checkbox"/> GLUC	3.9 - 5.8 mmol/l -fasting	<input checked="" type="checkbox"/> ALT 30	<41 / <31 U/L	moderate	Bacteria		
<input checked="" type="checkbox"/> UREA 14.9	2.5 - 6.4 mmol/L	<input type="checkbox"/> AST	<37 / <31 U/L				
<input type="checkbox"/> Na	136 - 145 mmol/L	<input type="checkbox"/> ALP	53 - 128 / 42 - 98 U/L				
<input type="checkbox"/> K	3.5 - 5.3 mmol/L	<input type="checkbox"/> CK	38 - 171 / 26 - 145 U/L				
<input type="checkbox"/> Cl	98 - 110 mmol/L	<input type="checkbox"/> LDH	230 - 460 U/L				
<input checked="" type="checkbox"/> CREAT 418	62-115 / 53-97 umol/L	<input type="checkbox"/> AMY	27 - 102 U/L				
<input type="checkbox"/> URIC ACID	208 - 430 / 155 - 360 umol/L	<input checked="" type="checkbox"/> CALCIUM 2.30	2.15 - 2.50 mmol/L				
<input type="checkbox"/> T-PROT	64 - 83 g/L	<input checked="" type="checkbox"/> PHOS 1.05	0.87-1.45 mmol/L				
<input type="checkbox"/> ALBUMIN	35 - 52 g/L	<input type="checkbox"/> CHOL	3.6 - 5.7 mmol/L				
<input checked="" type="checkbox"/> T-BILI 6.0	5.1 - 20.5 umol/L	<input type="checkbox"/> TRIG	<2.26 mmol/L				
<input checked="" type="checkbox"/> D-BILI 0.5	0.0 - 3.4 umol/L	<input type="checkbox"/> HDL-C	0.78 - 1.94 / 0.85 - 2.38 mmol/L				
<input type="checkbox"/> GGT	<55 / <38 U/L	<input type="checkbox"/> calc LDL-C	<1.71 - 5.44 / 1.48 - 5.80 mmol/L				
<input type="checkbox"/> Glucose Result by Glucometer	4.1 - 5.9 mmol/l -fasting						

Quality Assurance

Date Requested: 3/10/08
Ordering Doctor: Smith

Routine Stat Waiting Fasting Non-Fasting

QA Review: Date: / / Comments: _____

Doctor Signature: _____

Patient Information

Name (surname, first): _____

D.O.B.: / / Age: _____ [] Male [] Female

Patient No.: _____

Diagnosis: _____

Cross-Checking Guidelines⁸⁰⁴

Items to be verified prior to release of test results

<p>Completeness</p> <ul style="list-style-type: none"> ▪ Each test has a corresponding result ▪ Patient information ▪ Clinical information ▪ Provider information ▪ Specimen information ▪ Collection information ▪ Initials of staff member who performed each test indicated ▪ Date and time of report ▪ Result information identical with log book 	<p>Result Information</p> <ul style="list-style-type: none"> ▪ Legible ▪ Proper placement of decimals ▪ Uniform result alignment with regards to decimal placement ▪ Format of results corresponds with SOP ▪ Proper units and significant places ▪ Abbreviations used from approved list ▪ Within instrument linearity ▪ No associated instrument codes with regard to accuracy ▪ Result corresponds with correct test ▪ Diluted results multiplied with correct dilution factor ▪ No consistent pattern or trend exhibited between patients for a specific analyte during cross-checking unless patient grouping under review is from the same diagnosis/population pool (i.e. Newborn hemoglobin and hematocrit)
<p>Critical (Panic Values)</p> <ul style="list-style-type: none"> ▪ Result verified and verification documented ▪ Documentation of result notification <ul style="list-style-type: none"> ○ On result report ○ In log book 	<p>Appropriateness</p> <ul style="list-style-type: none"> ▪ Test relevant to patient's age and gender ▪ Result information makes clinical sense <ul style="list-style-type: none"> ○ Electrolytes ○ BUN/Creatinine ○ Macroscopic with microscopic ○ Instrument with smear ○ RBC Indices, RBC count, Hemoglobin and Hematocrit all show agreement
<p>Testing Priority</p> <ul style="list-style-type: none"> ▪ STAT request's communicated and documented ▪ Delays communicated and documented 	
<p>Specimen Rejection</p> <ul style="list-style-type: none"> ▪ Reason for specimen rejection documented ▪ Clinician and / or patient notified and this notification is documented 	