

GEN LAB COMPETENCY ASSESSMENT PLAN

- St. Joseph Medical Center Tacoma, WA
 St. Clare Hospital Lakewood, WA
 St. Elizabeth Hospital Enumclaw, WA
 St. Francis Hospital Federal Way, WA
 St. Anthony Hospital Gig Harbor, WA
 PSC

PURPOSE

To describe the process for competency assessment of personnel performing non-waived testing at FHS Laboratories in the Hematology, Urinalysis, and Chemistry departments.

TEST SYSTEM IDENTIFICATION

Employee competency to perform non-waived testing will be assessed utilizing audits based on results of work performance captured by established quality improvement lab processes, work logs, and other tracking tools available in the laboratory’s LIS system, as well as direct observation and blind testing challenges or proficiency testing performance.

At Franciscan Health System Laboratories the non-waived test systems in the general lab will be assessed in relation to their level of automation:

Automated	Semi-Automated	Manual
Hematology	Hematology	Hematology
Urinalysis	Urinalysis	Urinalysis
Hemoglobin A1C		Kit Testing
Chemistry		
Coagulation		

Documentation that will be used for competency assessment in a test system will include:

- Quality Improvement Monitoring tool (QIM) data
- Result Review Report
- Quality Control Result
- Quality Control Outlier Reports
- Maintenance log documentation
- Analyzer Troubleshooting Log
- Proficiency Blind Testing
- Direct Observance Competencies
- New Hire 6-month competency assessment test
- Training Checklists
- Annual departmental spot quizzes
- QC manual worksheets

PROCESS DESCRIPTION

1st Element of Competency Assessment

Direct observations of routine patient test performance, including, as applicable, patient identification and preparation; and specimen collection, handling, processing and testing.

Employees’ competency in routine patient test performance is evaluated by daily result review of the LIS exceptions report. The LIS exceptions report captures critical results, results outside the analyzer’s linearity

range, and specimens rejected for testing due to compromised integrity. Patient results are checked for proper adherence to the laboratory's established review criteria for reporting. Results are analyzed for coherence to ensure that all necessary steps were taken to ensure that suboptimal specimens were not used for testing. Any deviation from the established specimen rejection or result review criteria is documented on Quality Improvement Monitoring Form (QIM). The responsible employee is then notified of the error. Direct observation would follow if a pattern of errors develops with the employee's work performance.

2nd Element of Competency Assessment

Monitoring the recording and reporting of test results, including, as applicable, reporting critical results

The employee must demonstrate evidence of understanding the laboratory's protocol for reporting critical patient results, must know how to correctly report all abnormal results with the appropriate footnotes, and must document critical called results in the established format adopted by the laboratory. Any deviation from protocol for critical call documentation or review criteria captured on the laboratory's result review report will be entered into the laboratory's quality improvement monitor. The employee responsible will be notified of the error. Direct observation would follow if a pattern of errors develops with the employee's work performance.

3rd Element of Competency Assessment

Review of intermediate test results or worksheets, quality control records, proficiency testing results, and preventive maintenance records

QC results entered into the laboratory LIS are reviewed daily for outliers. The employee responsible for accepting the QC results must demonstrate understanding of Westgard rules, know how to troubleshoot the QC outlier, and take the appropriate action to ensure patient test results are not compromised. Daily QC review is also closely monitored to ensure that instrument maintenance and function checks are performed, L-J is reviewed on each shift, and proper documentation for failed patient runs is entered into the laboratory's LIS and submitted to the MT Coordinator for review. Besides QC records, proficiency testing records and maintenance records are also reviewed to ensure that the employee has working knowledge of the analyzer being operated for patient testing. The employee must be able to report patient test results with minimal error. Any deviation from the laboratory's protocol observed will be brought to the attention of the responsible employee. Direct observation would follow if a pattern of error develops with the employee's work performance.

4th Element of Competency Assessment

Direct observation of performance of instrument maintenance and function checks

The employee must be able to perform maintenance, pre-run function checks, or daily EQC for each specific analyzer he/she has been trained to operate. Maintenance logs, Pre-run Checks documentation, and direct observation of function checks will be used to evaluate the employee's work performance. Any deviation from the laboratory's protocol observed will be brought to the attention of the responsible employee. Direct observation would follow if a pattern of errors develops with the employee's work performance.

5th Element of Competency Assessment

Assessment of test performance through testing previously analyzed specimens, internal blind testing samples or external proficiency testing samples

Employees will be assigned proficiency specimens, blind samples, and MTS competencies (example Peripheral blood slides, body fluid slides) for testing to evaluate competency in each test system of the laboratory trained to perform patient testing. Direct observation would follow if an employee shows poor or failing performance.

6th Element of Competency Assessment

Evaluation of problem-solving skills

Employees must achieve a passing 70% score on questions from problem solving exams.

Direct observation would follow if an employee shows poor or failing performance.

Daily instruments troubleshooting, QC failure review and resolutions, sample acceptance will be us as part of problem-solving skills assessment.

General Lab (Hematology, Chemistry, Urinalysis) Competency Assessment Plan CAP Requirement: Six Elements Lab Assessment Method

Elements of Competency	Examples of Assessment	Technologist's responsibility
<p>1. Direct observations of routine patient test performance, including, as applicable, patient identification and preparation; and specimen collection, handling, processing and testing</p>	<ul style="list-style-type: none"> ◦ Direct Observation Competency – Specific laboratory <u>process</u> or <u>procedure</u> may be selected on a scheduled basis to cover different topics to address general laboratory quality and work performance issues. e.g. General Lab Focus Competency - QC Review & Competency - Failed Patient Run <li style="text-align: center;">Or Specific System Focus Coagulation Competency 1:1 Mixing Studies quiz post procedure review 	<ul style="list-style-type: none"> ◦ Tech will provide documentation to demonstrate procedural knowledge for handling compromised specimens specific to the testing method or procedure. e.g. Specimen handling issues specific to coagulation studies: AIR2, COAGINF, HEMOL CHKC ◦ Tech will provide documentation to demonstrate procedural knowledge, ability to recognize specific failed processes, & ability to troubleshoot and resolve the failed process. e.g. Failed Patient Run documentation
<p>2. Monitoring the recording and reporting of test results, including, as applicable, reporting critical results</p>	<ul style="list-style-type: none"> ◦ QIM ◦ ECR ◦ RRR 	
<p>3. Review of intermediate test results or worksheets, quality control records, proficiency testing results, and preventive maintenance records</p>	<ul style="list-style-type: none"> ◦ QCI or manual QC logs ◦ Proficiency samples (CAP specimens) ◦ Analyzer Maintenance Logs ◦ Analyzer Troubleshooting Logs ◦ Communication logs ◦ Staff review documentation 	<ul style="list-style-type: none"> ◦ Failed Patient Run documentation ◦ Tech must complete the Maintenance Competency for each test system he/she has been trained to operate. ◦ Tech will complete the <u>Observer Training for direct observation competencies</u> before proceeding to check another tech off on any competency checklist. ◦ Tech assigned to perform weekly & monthly maintenance will be required to complete a more comprehensive version of the Maintenance Competency & will be checked off by a MT coordinator or designee

Elements of Competency	Examples of Assessment	Technologist's responsibility
4. Direct observation of performance of instrument maintenance and function checks	<ul style="list-style-type: none"> ◦ Direct Observation of the Maintenance Competency for each test system must be performed on all techs assigned to perform scheduled instrument maintenance ◦ Analyzer Maintenance Logs will be reviewed monthly to monitor group daily compliance. Any failure will be documented on a QIM and placed in the responsible tech's performance file 	<ul style="list-style-type: none"> ◦ Tech must complete the Maintenance Competency for each test system he/she has been trained to operate. ◦ Tech will complete the <u>Observer Training for direct observation competencies</u> before proceeding to check each other off on any competency checklist. ◦ Tech assigned to perform weekly & monthly maintenance will be required to complete a more comprehensive version of the Maintenance Competency & will be checked off by a MT Coordinator or designee.
5. Assessment of test performance through testing previously analyzed specimens, internal blind testing samples or external proficiency testing samples	<ul style="list-style-type: none"> ◦ FHS Correlation ◦ PAML Correlation ◦ CAP Proficiency 	<ul style="list-style-type: none"> ◦ Tech will submit documentation to demonstrate working knowledge of patient correlation & reagent new lot correlation studies ◦ Tech assigned to a CAP proficiency will provide documentation to demonstrate project completion
6. Evaluation of problem-solving skills	<ul style="list-style-type: none"> ◦ Analyzer Troubleshooting Logs ◦ QIMs : Failed process troubleshooting ◦ Site departmental Spot quiz ◦ Tech performance evaluation spot quiz ◦ Regional Annual Competency quiz 	<ul style="list-style-type: none"> ◦ Tech will provide documentation to demonstrate ability to resolve a compromised situation that would have affected the integrity of patient results if it had not been averted: e.g. failed patient run, or any malfunction in process or operation. or Annual Competency Quiz

SJMC Activity Menu and Competency Assessments System

Section Name	Subdiscipline	Activity Name	Competency System
Blood Gases	Blood Gases	Calcium, ionized, whole blood, non-waived	Auto Chem
Blood Gases	Blood Gases	Carboxyhemoglobin	Auto Chem
Blood Gases	Blood Gases	Glucose, whole blood, non-waived	Auto Chem
Blood Gases	Blood Gases	Hematocrit (direct measure/calc), non-waived	Auto Chem
Blood Gases	Blood Gases	Hemoglobin, total, non-waived	Auto Chem
Blood Gases	Blood Gases	Methemoglobin	Auto Chem
Blood Gases	Blood Gases	PCO2	Auto Chem
Blood Gases	Blood Gases	pH, venous/arterial	Auto Chem
Blood Gases	Blood Gases	Potassium, whole blood, non-waived	Auto Chem
Blood Gases	Blood Gases	Sodium, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Blood Gases	Calcium, ionized, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Blood Gases	Carboxyhemoglobin	Auto Chem
Chemistry & Toxicology	Blood Gases	Glucose, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Blood Gases	Hematocrit (direct measure/calc), non-waived	Auto Chem
Chemistry & Toxicology	Blood Gases	Hemoglobin, total, non-waived	Auto Chem
Chemistry & Toxicology	Blood Gases	Methemoglobin	Auto Chem
Chemistry & Toxicology	Blood Gases	PCO2	Auto Chem
Chemistry & Toxicology	Blood Gases	pH, venous/arterial	Auto Chem
Chemistry & Toxicology	Blood Gases	Potassium, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Blood Gases	Sodium, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Chemistry	Albumin, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Albumin, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Alkaline phosphatase, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	ALT, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Ammonia	Auto Chem
Chemistry & Toxicology	Chemistry	Amylase, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Amylase, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Amylase, urine	Auto Chem
Chemistry & Toxicology	Chemistry	AST, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Bilirubin, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Bilirubin, direct, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Bilirubin, total, neonatal, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Bilirubin, total, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	C-reactive protein, qual and/or quant	Auto Chem
Chemistry & Toxicology	Chemistry	Calcium, ionized, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Chemistry	Calcium, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Calcium, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Chloride, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Chloride, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Chloride, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Cholesterol, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Cholesterol, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	CK-MB, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	CO2, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Creatine kinase (CK), serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Creatinine, body fluid	Auto Chem

Section Name	Subdiscipline	Activity Name	Competency System
Chemistry & Toxicology	Chemistry	Creatinine, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Creatinine, urine, quantitative	Auto Chem
Chemistry & Toxicology	Chemistry	Creatinine, whole blood, waived	Auto Chem
Chemistry & Toxicology	Chemistry	GGT, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Glucose, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Glucose, CSF	Auto Chem
Chemistry & Toxicology	Chemistry	Glucose, quantitative, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Glucose, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	hCG, quantitative, serum	Auto Chem
Chemistry & Toxicology	Chemistry	HDL cholesterol, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Iron, serum	Auto Chem
Chemistry & Toxicology	Chemistry	Ketone, serum	Manual Hem/UA
Chemistry & Toxicology	Chemistry	Lactate, plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Lactate, whole blood, non-waived	Auto Chem
Chemistry & Toxicology	Chemistry	LD, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	LD, CSF	Auto Chem
Chemistry & Toxicology	Chemistry	LD, serum	Auto Chem
Chemistry & Toxicology	Chemistry	LDL cholesterol, serum/plasma, measured	Auto Chem
Chemistry & Toxicology	Chemistry	Lipase, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Lipase, serum	Auto Chem
Chemistry & Toxicology	Chemistry	Lithium, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Magnesium, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Microalbumin (urine albumin), quantitative	Auto Chem
Chemistry & Toxicology	Chemistry	Osmolality, serum/plasma/whole blood, measured	Auto Chem
Chemistry & Toxicology	Chemistry	Osmolality, urine	Auto Chem
Chemistry & Toxicology	Chemistry	pH, body fluid	Manual Hem/UA
Chemistry & Toxicology	Chemistry	Phosphorus, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Phosphorus, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Potassium, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Potassium, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Potassium, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Protein, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Protein, total, CSF	Auto Chem
Chemistry & Toxicology	Chemistry	Protein, total, quantitative, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Protein, total, serum	Auto Chem
Chemistry & Toxicology	Chemistry	Sodium, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Sodium, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Sodium, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Triglycerides, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Triglycerides, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Troponin I	Auto Chem
Chemistry & Toxicology	Chemistry	Urea, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Urea, serum/plasma	Auto Chem
Chemistry & Toxicology	Chemistry	Urea, urine	Auto Chem
Chemistry & Toxicology	Chemistry	Uric acid, body fluid	Auto Chem
Chemistry & Toxicology	Chemistry	Uric acid, serum	Auto Chem
Chemistry & Toxicology	Chemistry	Uric acid, urine	Auto Chem
Chemistry & Toxicology	Special Chemistry	Acetaminophen	Auto Chem
Chemistry & Toxicology	Special Chemistry	Alcohol/volatiles, serum, medical	Auto Chem

Section Name	Subdiscipline	Activity Name	Competency System
Chemistry & Toxicology	Special Chemistry	BNP, non-waived	Auto Chem
Chemistry & Toxicology	Special Chemistry	Carbamazepine	Auto Chem
Chemistry & Toxicology	Special Chemistry	Cortisol, serum/plasma	Auto Chem
Chemistry & Toxicology	Special Chemistry	Cyclosporine, whole blood	Auto Chem
Chemistry & Toxicology	Special Chemistry	Digoxin	Auto Chem
Chemistry & Toxicology	Special Chemistry	Estradiol	Auto Chem
Chemistry & Toxicology	Special Chemistry	Ferritin, serum/plasma	Auto Chem
Chemistry & Toxicology	Special Chemistry	Fetal fibronectin	Semi
Chemistry & Toxicology	Special Chemistry	Folate, serum	Auto Chem
Chemistry & Toxicology	Special Chemistry	Follicle stimulating hormone (FSH)	Auto Chem
Chemistry & Toxicology	Special Chemistry	Gentamicin, serum	Auto Chem
Chemistry & Toxicology	Special Chemistry	Glomerular filtration rate, nuclear medicine	Auto Chem
Chemistry & Toxicology	Special Chemistry	HBsAg	Auto Chem
Chemistry & Toxicology	Special Chemistry	Hemoglobin A1C, non-waived	Manual Hem/UA
Chemistry & Toxicology	Special Chemistry	Luteinizing hormone (LH)	Auto Chem
Chemistry & Toxicology	Special Chemistry	Parathyroid hormone (PTH), serum	Auto Chem
Chemistry & Toxicology	Special Chemistry	Phenobarbital	Auto Chem
Chemistry & Toxicology	Special Chemistry	Phenytoin	Auto Chem
Chemistry & Toxicology	Special Chemistry	Prealbumin	Auto Chem
Chemistry & Toxicology	Special Chemistry	Progesterone	Auto Chem
Chemistry & Toxicology	Special Chemistry	Prolactin	Auto Chem
Chemistry & Toxicology	Special Chemistry	Prostate specific antigen (PSA)	Auto Chem
Chemistry & Toxicology	Special Chemistry	Prostate specific antigen (PSA), free	Auto Chem
Chemistry & Toxicology	Special Chemistry	Rubella antibody, qual and/or quant	Auto Chem
Chemistry & Toxicology	Special Chemistry	Salicylate	Auto Chem
Chemistry & Toxicology	Special Chemistry	Syphilis antibodies	Auto Chem
Chemistry & Toxicology	Special Chemistry	T3 uptake	Auto Chem
Chemistry & Toxicology	Special Chemistry	T4, free	Auto Chem
Chemistry & Toxicology	Special Chemistry	T4, total	Auto Chem
Chemistry & Toxicology	Special Chemistry	TB, whole blood/plasma, immunoassay	Auto Chem
Chemistry & Toxicology	Special Chemistry	Testosterone, total	Auto Chem
Chemistry & Toxicology	Special Chemistry	Theophylline	Auto Chem
Chemistry & Toxicology	Special Chemistry	Therapeutic drug monitoring	Auto Chem
Chemistry & Toxicology	Special Chemistry	Transferrin	Auto Chem
Chemistry & Toxicology	Special Chemistry	Tricyclics, total, quantitative, serum	Auto Chem
Chemistry & Toxicology	Special Chemistry	TSH, serum	Auto Chem
Chemistry & Toxicology	Special Chemistry	Valproic acid	Auto Chem
Chemistry & Toxicology	Special Chemistry	Vancomycin, serum	Auto Chem
Chemistry & Toxicology	Special Chemistry	Vitamin B12	Auto Chem
Chemistry & Toxicology	Special Chemistry	Vitamin D, 25-hydroxy	Auto Chem
Chemistry & Toxicology	Toxicology	Medical Testing	Auto Chem
Hematology/Urinalysis	Body Fluid Analysis	Body fluid cell count, automated	Auto Hem UA Variant
Hematology/Urinalysis	Body Fluid Analysis	Body fluid cell count, manual	Man Hem UA
Hematology/Urinalysis	Body Fluid Analysis	Body fluid differential/cell identification	Man Hem UA
Hematology/Urinalysis	Body Fluid Analysis	Crystal identification, body fluid	Man Hem UA
Hematology/Urinalysis	Body Fluid	Sperm, presence or absence (post vasectomy)	Man Hem UA

	Analysis		
Section Name	Subdiscipline	Activity Name	Competency System
Hematology/Urinalysis	Coagulation	D-dimer, qual/semi-quant, plasma	Auto Hem UA Variant
Hematology/Urinalysis	Coagulation	Fibrinogen	Auto Hem UA Variant
Hematology/Urinalysis	Coagulation	Heparin anti-Xa	Auto Hem UA Variant
Hematology/Urinalysis	Coagulation	Mixing studies	Auto Hem UA Variant
Hematology/Urinalysis	Coagulation	Platelet function, rapid, aspirin, waived	Semi-Auto Hem/UA
Hematology/Urinalysis	Coagulation	Platelet function, rapid, P2Y12 inhibition	Semi-Auto Hem/UA
Hematology/Urinalysis	Coagulation	PT, plasma	Auto Hem UA Variant
Hematology/Urinalysis	Coagulation	PTT, plasma	Auto Hem UA Variant
Hematology/Urinalysis	Coagulation	Thrombin time	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	Bone marrow collection (assist)	Man Hem UA
Hematology/Urinalysis	Hematology	Bone marrow stain (Wright/Giemsa), Hematology	Man Hem UA
Hematology/Urinalysis	Hematology	Eosinophils, nasal smear	Man Hem UA
Hematology/Urinalysis	Hematology	Hematocrit, non-waived	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	Hematocrit, waived	Auto chem
Hematology/Urinalysis	Hematology	Hemoglobin, non-waived	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	Parasite screening/identification, blood	Man Hem UA
Hematology/Urinalysis	Hematology	Platelet count, automated	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	RBC count	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	RBC indices (e.g. MCV, RDW)	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	Reticulocyte count, automated	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	Reticulocyte count, manual	Man Hem UA
Hematology/Urinalysis	Hematology	Special stains, Hematology	Man Hem UA
Hematology/Urinalysis	Hematology	WBC count, automated	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	WBC differential, automated	Auto Hem UA Variant
Hematology/Urinalysis	Hematology	WBC differential, manual	Man Hem UA
Hematology/Urinalysis	Urinalysis	Eosinophils, urine	Semi-Auto UA
Hematology/Urinalysis	Urinalysis	hCG, urine, waived	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	hCG, Serum, non-waived	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	Myoglobin, urine	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	PAMG-1 protein detection, fluid	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	pH, stool	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	Reducing substances, fecal	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	Lameller Bodies	Semi-Auto Heme/UA
Hematology/Urinalysis	Urinalysis	ESR Non-Waived	Manual Hem/UA

Hematology/Urinalysis	Urinalysis	APT Test	Manual Hem/UA
Section Name	Subdiscipline	Activity Name	Competency System
Hematology/Urinalysis	Urinalysis	Reducing substances, urine	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	Urinalysis dipstick, automated, non-waived	Auto Hem UA Variant
Hematology/Urinalysis	Urinalysis	Urinalysis dipstick, manual, waived	Manual Hem/UA
Hematology/Urinalysis	Urinalysis	Urinalysis microscopic, automated (inc.crystal ID)	Auto Hem UA Variant
Hematology/Urinalysis	Urinalysis	Urinalysis microscopic, manual (inc. crystal ID)	Manual Hem/UA

SA/SE/SF/SC Activity Menu and Competency Assessments System

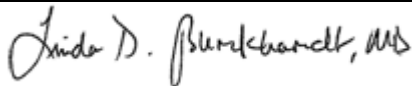
Section Name	Subdiscipline	Activity Name	Competency System
Blood Gases	Blood Gases	Carboxyhemoglobin	Chem Auto
Blood Gases	Blood Gases	Chloride, whole blood, non-waived	Chem Auto
Blood Gases	Blood Gases	CO2, whole blood, non-waived	Chem Auto
Blood Gases	Blood Gases	Glucose, whole blood, non-waived	Chem Auto
Blood Gases	Blood Gases	Hematocrit (direct measure/calc), non-waived	Chem Auto
Blood Gases	Blood Gases	Hemoglobin, total, non-waived	Chem Auto
Blood Gases	Blood Gases	Methemoglobin	Chem Auto
Blood Gases	Blood Gases	O2 saturation	Chem Auto
Blood Gases	Blood Gases	PCO2	Chem Auto
Blood Gases	Blood Gases	pH, venous/arterial	Chem Auto
Blood Gases	Blood Gases	Potassium, whole blood, non-waived	Chem Auto
Blood Gases	Blood Gases	Sodium, whole blood, non-waived	Chem Auto
Blood Gases	Blood Gases	Calcium, ionized, serum/plasma	Chem Auto
Hematology/Urinalysis	Body Fluid Analysis	Body fluid cell count, automated	Auto Hem/UA
Hematology/Urinalysis	Body Fluid Analysis	Body fluid cell count, manual	Manual Tests
Hematology/Urinalysis	Body Fluid Analysis	Body fluid differential/cell identification	Manual Tests
Hematology/Urinalysis	Body Fluid Analysis	Crystal identification, body fluid	Manual Tests
Hematology/Urinalysis	Body Fluid Analysis	Sperm, presence or absence (post vasectomy)	Manual Tests
Chemistry & Toxicology	Chemistry	Albumin, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Alkaline phosphatase, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	ALT, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Ammonia	Chem Auto
Chemistry & Toxicology	Chemistry	Amylase, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	AST, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Bilirubin, direct, diazo (neonatal), serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Bilirubin, direct, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Bilirubin, total, neonatal, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Bilirubin, total, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Calcium, ionized, whole blood, non-waived	Chem Auto
Chemistry & Toxicology	Chemistry	Calcium, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Chloride, fecal	Chem Auto
Chemistry & Toxicology	Chemistry	Chloride, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	CK-MB, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	CO2, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Creatine kinase (CK), serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Creatinine, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Creatinine, whole blood, waived	Chem Auto
Chemistry & Toxicology	Chemistry	Glucose, CSF	Chem Auto
Chemistry & Toxicology	Chemistry	Glucose, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	hCG, qualitative, serum	Kit Tests
Chemistry & Toxicology	Chemistry	Ketone, serum	Manual Tests
Chemistry & Toxicology	Chemistry	Lactate, plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Lactate, whole blood, non-waived	Chem Auto
Chemistry & Toxicology	Chemistry	LD, serum	Chem Auto
Chemistry & Toxicology	Chemistry	Lipase, serum	Chem Auto

Section Name	Subdiscipline	Activity Name	Competency System
Chemistry & Toxicology	Chemistry	Lithium, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Magnesium, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	pH, body fluid	Manual Tests
Chemistry & Toxicology	Chemistry	Phosphorus, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Potassium, fecal	Chem Auto
Chemistry & Toxicology	Chemistry	Potassium, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Protein, total, CSF	Chem Auto
Chemistry & Toxicology	Chemistry	Protein, total, serum	Chem Auto
Chemistry & Toxicology	Chemistry	Sodium, fecal	Chem Auto
Chemistry & Toxicology	Chemistry	Sodium, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Urea, serum/plasma	Chem Auto
Chemistry & Toxicology	Chemistry	Uric acid, serum	Chem Auto
Hematology/Urinalysis	Coagulation	D-dimer, quantitative	Auto Hem Coag UA
Hematology/Urinalysis	Coagulation	Heparin anti-Xa	Auto Hem Coag UA
Hematology/Urinalysis	Coagulation	INR, plasma, non-waived	Auto Hem Coag UA
Hematology/Urinalysis	Coagulation	PT, plasma	Auto Hem Coag UA
Hematology/Urinalysis	Coagulation	PTT, plasma	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	Bone marrow collection (assist)	Manual Tests
Hematology/Urinalysis	Hematology	Eosinophil count	Manual Tests
Hematology/Urinalysis	Hematology	Eosinophils, nasal smear	Manual Tests
Hematology/Urinalysis	Hematology	ESR, manual, non-waived	Manual Tests
Hematology/Urinalysis	Hematology	Hematocrit, non-waived	Auto Heme Coag UA
Hematology/Urinalysis	Hematology	Hemoglobin, non-waived	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	Platelet count, automated	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	RBC count	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	RBC indices (e.g. MCV, RDW)	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	Reticulocyte count, automated	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	Reticulocyte count, manual	Manual Tests
Hematology/Urinalysis	Hematology	WBC count, automated	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	WBC differential, automated	Auto Hem Coag UA
Hematology/Urinalysis	Hematology	WBC differential, manual	Manual Tests
Chemistry & Toxicology	Special Chemistry	Acetaminophen	Chem Auto
Chemistry & Toxicology	Special Chemistry	BNP, non-waived	Chem Auto
Chemistry & Toxicology	Special Chemistry	Carbamazepine	Chem Auto
Chemistry & Toxicology	Special Chemistry	Digoxin	Chem Auto
Chemistry & Toxicology	Special Chemistry	hCG, quantitative, serum	Chem Auto
Chemistry & Toxicology	Special Chemistry	Infectious mononucleosis, waived	Kit Testing
Chemistry & Toxicology	Special Chemistry	Phenytoin	Chem Auto
Chemistry & Toxicology	Special Chemistry	Salicylate	Chem Auto
Chemistry & Toxicology	Special Chemistry	Therapeutic drug monitoring	Chem Auto

Chemistry & Toxicology	Special Chemistry	Tricyclics, total, quantitative, serum	Chem Auto
Chemistry & Toxicology	Special Chemistry	Troponin I	Chem Auto
Chemistry & Toxicology	Special Chemistry	Valproic acid	Chem Auto
Chemistry & Toxicology	Special Chemistry	Vancomycin, serum	Chem Auto
Section Name	Subdiscipline	Activity Name	Competency System
Chemistry & Toxicology	Toxicology	Alcohol/volatiles, serum, medical	Chem Auto
Chemistry & Toxicology	Toxicology	Specimen integrity testing, creatinine	Chem Auto
Chemistry & Toxicology	Toxicology	Urine toxicology, qual, automated immunoassay	Chem Auto
Hematology/Urinalysis	Urinalysis	Eosinophils, urine	Manual Tests
Hematology/Urinalysis	Urinalysis	hCG, urine, waived	Kit Testing
Hematology/Urinalysis	Urinalysis	PAMG-1 protein detection, fluid	Kit Testing
Hematology/Urinalysis	Urinalysis	pH, other	Manual Tests
Hematology/Urinalysis	Urinalysis	Reducing substances, urine	Manual Tests
Hematology/Urinalysis	Urinalysis	Specific gravity, body fluid	Manual Tests
Hematology/Urinalysis	Urinalysis	Urinalysis dipstick, automated, non-waived	Auto Hem Coag UA
Hematology/Urinalysis	Urinalysis	Urinalysis microscopic, manual (inc. crystal ID)	Manual Tests
Hematology/Urinalysis	Virology	Influenza antigen, non-waived	Kit Testing
Hematology/Urinalysis	Virology	RSV antigen, non-IF method, non-waived	Kit Testing

Please Complete Review by date: 9/20/2013

Reviewer	Approval Required?	Date Reviewed	OK?	Not?	Suggestions
Nuria Adem					
Joanne Walsh	y				
Carla Herl	y	9/18/13	Y		
Teri Emerson					
Linda Guay					
Sally Kramer	y	9/18/13	Y		
Karen Lea	y	9/5/13	y		
Cecil Dunn	y	9/18/13	y		
Claudia Willis					
Katie Wilkinson		9/5/13	Y		Nuria, I think it looks good! A few suggestions in purple. Not sure who wrote in red, but it wasn't me 😊
Linda Burkhardt		9/18/13	X		
Anne Tuttle	y	9-18-13	Y		Comments added
Karen Benson	y				
Mary Hancock	y	9/19/13			See comments, several tests possibly missing on activity menu for SJ. mh
Danielle Capers	y	9/23/2013	Y		Does it have to have all the tests we run?
Gary Meyer	y				
Hilyard Jackie	Y	9/18/13	Y		See several comments above
<p>Once this document has been approved by the committee, this box should be deleted before saving the final copy. Then reposition the "Document Approval" box to the bottom of the last page and forward the final copy to the Medical Director for approval.</p>					

DOCUMENT APPROVAL Purpose of Document / Reason for Change:			
Committee Approval Date	<input type="checkbox"/> Date: <input type="checkbox"/> NA – revision of department-specific document which is used at only one facility	Medical Director Approval <i>(Electronic Signature)</i>	 9/18/13