QUALITY CONTROL (QC) POLICY

Purpose

To define the policy of running Quality Controls (QC) for every assay testing laboratory location at the Los Angeles Medical Center Area, and to ensure compliance with applicable CAP, JCAHO, COLA, Centers for Medicare and Medicaid (CMS) and the California Department of Health and Services (CDHS) regulations/requirements.

Workplace Safety

Not applicable.

Policy

- Control procedures are performed to monitor the stability of the method or test system and to ensure that correct patient results are reported.
 Control and calibration materials provide a means to indirectly assess the accuracy and precision of patient test results.
- For an every 8-hour control frequency, ranges in excess of ±30 minutes, producing a window of over an hour are not acceptable.
- Controls must be reviewed and deemed acceptable prior to reporting patient results.

Quantitative Analysis

Except as noted otherwise in specific procedures, at least 2 levels of controls within the analytical range of the assay must be included with each run of patient specimens. A run is defined as every 24 hours. These are Federal regulatory requirements, and may be more stringent in other defined areas, e.g., CBC, coagulation tests, and blood gas testing, in which, a run is defined as every 8 hours.

Control specimens must be treated the same as patient samples during each phase of testing.

Control specimens must be analyzed by routine testing personnel, and control samples must be rotated among all testing personnel on all shifts.

Controls must be assayed whenever a new variable is introduced into the system, e.g. newly prepared reagents, instrument maintenance, and recalibration.

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ChemistryThe table below describes the QC policy for Chemistry testing in every LAMC laboratory location.

	atory location.		
Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Main Lab (AU680) Routine Chemistry	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated mean. 	 Twice daily 2 levels of QC Except BUN – 3 times daily, 3 levels 	 1_{2s} 1_{3s} 2_{2s} R_{4s}
Main Lab (AU680) TDM, CRP Urine/CSF Chemistry, Pediatric Bilirubin, Ammonia, Alc., Lithium	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated mean. 	 Twice daily 2 levels of QC Except Digoxin and Gentamicin – 3 times daily, 3 levels 	 1_{2s} 1_{3s} 2_{2s} R_{4s}
Roche Diagnostics AVL 9180 (ionized Calcium)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated mean. 	Daily3 levels of QC	 1_{2s} 1_{3s} 2_{2s} R_{4s}
Main Lab (BioMerieux MiniVidas – PCT)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated mean. 	Once daily2 levels of QC	 1_{2s} 1_{3s} 2_{2s} R_{4s}
Pasadena (AU480)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated mean. 	Every 8 hours2 levels of QC	12s13s22sR4s

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Access **Immunoassay** The table below describes the QC policy for Access Immunoassay testing, i.e. BNP, Troponin, CKMB, HCG, and Estradiol.

Testing

Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Main Lab (Access 2) BNP, CKMB, Estradiol	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	 Twice daily 2 levels of QC Except Troponin – every 8 hrs. 	 1_{2s} 2_{2s} R_{4s}
Main Lab (Access 2) BHCG, Troponin, I- PTH	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	 Every 8 hours 3 levels of QC Except I PTH run QC only with patients 	 13s 22s R4s 41s 8x
Pasadena (Access 2)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	 Every 24 hours 2 levels of QC Except Troponin – every 8 hrs. 	• 1 _{2s} • 1 _{3s}

The table below describes the QC policy for Osmolality testing. Osmolality

Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Main Lab (Advance Instruments)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	Every 24 hours2 levels of QC	 1_{2s} 1_{3s}

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The table below describes the QC policy for Blood Gas testing. **Blood Gas Testing**

Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Main Lab (ABL)	 External/Simulator QC For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	 Every 8 hours 3 levels of liquid QC for day shift and 1 level each subsequent evening and night shift. 	• 1 _{2s} • 1 _{3s}

Process Control

Policy

Coagulation The table below describes the QC policy for Coagulation testing in every **Testing** LAMC laboratory location.

Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Main Lab (Stago)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	 Every 8 hours 2 levels of QC Except LMWH and Thrombin Time run QC only with patients 	• 1 _{2s} • 1 _{3s}
Main Lab (Accumetrics VerifyNow – P2Y12)	Electronic QC External Liquid QC	Daily Monthly and every new lot and shipment	 Pass Within specifie d range on PRU Test Kit
Pasadena (Stago)	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	Every 8 hours2 levels of QC	 1_{2s} 1_{3s}
BT Flow Cytometry Lab (FC 500 for 4- color T-Cell panel (tetra) analysis	 For unassayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	Every 8 hours2 levels of QC	 1_{2s} 1_{3s}

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Hematology Testing The table below describes the QC policy for CBC testing in every LAMC laboratory location.

Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Main Lab (DxH800)	 For assayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	Every 8 hours3 levels of QC	 1_{3s} 2of3_{2s}
	X Bar M Quality Control	X Bar M monitored daily for acceptability and documented in X Bar M log, corrective actions documented in corrective action log	• ± 3 % of mean for MCV, MCH & MCHC
Siemens PFA100	Qualified QC donors having a closure time near the middle of the established reference range	 Self Tests at the start of each shift that the system is in use Test control donor in duplicate with each new shipment of cartridges received 	 The system will print pass/fail results after Self Tests are completed Result from the control donor must be within the established reference range
Sysmex PocH- 100i	 For assayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	 Each day of patient testing 3 levels of QC 	All QC results must be within 2SD

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Hematology Testing (continued):

Location	QC Ranges Determination	Frequency/Levels of QC	QC Rule
Pasadena Lab	 For assayed controls, collect new QC data concurrently with retiring QC, at least 20 runs performed on different days. Use established historical SD and calculated Mean. 	Every 8 hours3 levels of QC	 1_{2s} 1_{3s} 2/3 QC within 1_{2s} and 1/3 QC < 1_{3s} - accept run
	XB/XM Quality Control	Every 20 batches of 20 samples or monthly, whichever is more frequent.	• ± 3 % of mean for MCV, MCH & MCHC

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Semi-Quantitative/ Qualitative Analysis

2 levels of QC per 24 hour shift for Urinalysis testing using the manufacturer's recommended ranges.

2 levels of QC with each day of use for the following tests: Semen Analysis and ESR.

2 levels of QC with at least 1 level of QC every eight hours of testing for CSF/Fluid Count.

External positive and negative QC with each new box kit for the Urine Strep pneumonia Antigen test.

3 levels of QC with each patient testing for the OraQuick HIV Rapid test.

2 levels of QC on a monthly basis and every time a new lot number is opened. In addition, an internal electronic QC is performed every patient testing and QC testing for the Fetal Fibronectin test.

Positive/detected and negative/non-detected external controls must be included with each day of use for Mono Test, Pregnancy Test, and Occult Blood. Additionally, internal controls for Pregnancy Test, Mono Test, and Occult Blood must also be performed and recorded for each patient test.

Internal controls for MedTox Drugs of Abuse Screen must be performed and recorded for each patient test. Additionally, 2 levels of external controls must be run weekly and for each new lot and shipment.

Each new lot of reagent, reference material, or control must be run in parallel against the previous lot to ensure proper reactivity.

Where results are reported as a titer or some other semi-quantitative result, the titer of the control must be evaluated and recorded before results are released.

Quality Control for Laboratory Stains

Laboratory stains must be checked each day of use or weekly for intended reactivity to ensure predictable staining characteristics.

Quality Control for the following stains used in the laboratory must be assessed as to the intended reactivity:

Stain	Intended Reactivity
Gram Stain (each day of use)	Gram Positive – Blue
	 Gram Negative – Red

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Quality Control for Laboratory Stains (continued)

Stain	Intended Reactivity
Wright Stain (Daily)	• Red Cells – Pink
	 Leukocyte Nuclei – Purple
	Eosinophilic Granules – Red- Orange
	Basophilic Granules – Dark Purple
	Bacteria - Blue

QC Criteria The t

The table below defines the following QC criteria.

QC Criteria	Definition
128	Indicates that control limits are set as the mean plus/minus 2s. The run is accepted when one control result is within 2SD and the other control result is within 3SD limits from the mean value. However, this rule is used as a warning rule to trigger careful inspection of the control data.
138	Indicates that control limits are set as the mean plus 3s and the mean minus 3s. A run is rejected when a single control measurement exceeds the mean plus 3s or the mean minus 3s control limit.

QC Criteria	Definition
2 _{2s}	The run is rejected when both controls exceed the mean value +2SD or the mean -2SD limits. It should be applied within and across runs. This rule is violated within the run when two consecutive control values (or two of three control values when three levels are being run) exceed the "same" (mean ±2S) limit. The rule is violated across runs when the previous value for a particular control level exceeds the "same" (mean ±2S) limit.
R _{4s}	Reject when 1 control measurement in a group exceeds the mean plus 2s and another exceeds the mean minus 2s.or when the range of a group of controls exceeds 4SD. It is a "range" rule, and it detects random error. This rule is applied within the run only. This rule is violated when the difference in standard deviation between two consecutive control values (or two of three control values when three levels are being run) exceeds 4S.

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Six Sigma Criteria:

	trade last disco-	Six Sigma			
Analyte	UOM	Summary	QC Rules	Levels / Frequency	EQC Set-Up
Acetaminophen		Good	$1_{3s}/2_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Albumin	g/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
ALP	iu/l	Six Sigma	1,	N=2 R=1	Sigma 1
ALT	iu/l	Fair	$1_{1}/2_{2}/R_{1}/4_{1}$	N=2 R=2	Sigma 3
AST	iu/l	Good	$I_{3s}^{*}/I_{2s}^{*}/R_{4s}^{*}$	N=2 R=1	Sigma 2
BUN	mg/dl	Unacceptable	$I_{3s}/2_{2s}/R_{4s}/4_{1s}/8X$	N=3 R=3	Sigma 4
Calcium	mg/dl	Six Sigma	1,.	N=2 R=1	Sigma 1
Carbamezapine		Six Sigma	1,,	N=2 R=1	Sigma 1
Chloride	mmol/l	Fair	1,/2,/R _L /4 _L	N=2 R=2	Sigma 3
CK	iu/l	Six Sigma	1,	N=2 R=1	Sigma 1
CO2	mmol/l	Fair	1, /2, /R, /4,	N=2 R=2	Sigma 3
Creatinine	mg/dl	Six Sigma	1,	N=2 R=1	Sigma 1
CSF Glucose	mg/dl	Fair	$1_{12}/2_{11}/R_{11}/4_{11}$	N=2 R=2	
CSF Lactate	mmol/l	Six Sigma	13.	N=2 R=1	
CSF MTP	mg/dl	Good	$T_{3s}/2_{2s}/R_{4s}$	N=2 R=1	
Digoxin	ng/ml	Marginal	1 _{3s} /2 _{2s} /R _{4s} /4 _{1s} /8x	N=3 R=3	Sigma 4
D Bilirubin	mg/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
Ethanol / ETOH	g/dl	Good	$I_{3s}^{*}/2_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Gentamicin	ug/ml	Unacceptable	T _{3s} /2 _{2s} /K _{4s} /4 _{1s} /8X	N=3 R=3	Sigma 4
GGT	iu/l	Six Sigma	1,,	N=2 R=1	Sigma 1
Glucose	mg/dl	Good	$T_{3s}/Z_{2s}/R_{4s}$	N=2 R=1	Sigma 2
hs CRP	mg/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
Lactate	mmol/l	Six Sigma	1,,	N=2 R=1	Sigma 1
LDH	iu/l	Six Sigma	1,,	N=2 R=1	Sigma 1
Lipase	u/l	Six Sigma	1,	N=2 R=1	Sigma 1
Lithium	mmol/l	Six Sigma	1,	N=2 R=1	Sigma 1
Magnesium	mg/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
NH4	umol/l	Unacceptable	$T_{3s}/2_{2s}/R_{4s}/4_{1s}/8x$	N=3 R=3	Sigma 4
Peritoneal Alb	g/dl	***	12,/13,/22,/R4,	N=2 R=1	
Peritoneal Crea		***	12,/13,/22,/R4,	N=2 R=1	
Peritoneal LDH		***	12,/13,/22,/R4	N=2 R=1	
Peritoneal TP	g/dl	***	12,/13,/22,/R4,	N=2 R=1	
Phenobarbital	ug/ml	Fair	1,./2,./R,./4,.	N=2 R=2	Sigma 3
Phenytoin	ug/ml	Good	$\Gamma_{3s}/2_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Phosphorus	mg/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
Pleural Alb	g/ml	***	12,/13,/22,/R4,	N=2 R=1	
Pleural Creatin		***	12,/13,/22,/R4,	N=2 R=1	
Pleural LDH	iu/l	***	12,/13,/22,/R4	N=2 R=1	
Pleural TP	g/dl	***	12./13./22./R4	N=2 R=1	61
Potassium	mmol/l	Good	$I_{3s}/Z_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Salicylate	mg/dl	Six Sigma	138	N=2 R=1	Sigma 1
Sodium	mmol/l	Fair	1, /2, /R, /4,	N=2 R=2	Sigma 3
Theophylline	ug/ml	Good	$V_{3s}/Z_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Tobramycin	ug/ml	Fair	$1_{3}/2_{3}/R_{4}/4_{4}$	N=2 R=2	Sigma 3
T Bilirubin	mg/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
Total Protein	g/dl	Good	$T_{3s}/2_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Uric Acid	mg/dl	Six Sigma	1,,	N=2 R=1	Sigma 1
Urine Chloride		***	12,/13,/22,/R4,	N=2 R=1	Sigma 1
Urine Creatinin		***	12,/13,/22,/R4,	N=2 R=1	Sigma 1
Urine MTP	mg/dl		12/13/22/R4	N=2 R=1	Sigma 1
Urine Potassiu		***	12_/13_/22_/R4_	N=2 R=1	Sigma 1
Urine Sodium	mmol/l	Six Sigma	l.	N=2 R=1	Sigma 1
Valproic Acid	ug/ml	Six Sigma	1,	N=2 R=1	Sigma 1
Vancomycin	ug/ml	Good	T _{3s} /2 _{2s} /R _{4s}	N=2 R=1	Sigma 2
BHCG	mIU/mI	Unacceptable	1 _{3s} /2 _{2s} /R _{4s} /4 _{1s} /8x	N=3 R=3	Sigma 4
BNP	pg/ml	Good	135/225/R45	N=2 R=1	Sigma 2
CKMB	ng/ml	Good	$I_{3s}/2_{2s}/R_{4s}$	N=2 R=1	Sigma 2
Estradiol	pg/ml	Good	$T_{3s}/Z_{2s}/R_{4s}$	N=2 R=1	Sigma 2
IPTH	pg/ml	Unacceptable	1 _{3s} /2 _{2s} /R _{4s} /4 _{1s} /8x	N=3 R=3	Sigma 4
Troponin	ng/ml	Good	$I_{3s}/Z_{2s}/R_{4s}$	N=2 R=1	Sigma 2

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QC Ranges Determination

For unassayed controls, collect new QC data concurrently with retiring QC data, preferably more than 20 runs performed on different days. Calculate the Mean of each level of control.

For assayed controls, recommended target ranges will be verified using the same procedure. Calculated Mean must be within the established range provided by the manufacturer.

Established historical SDs are calculated by compiling the average mean of each test or parameter from previously tested lot numbers of quality controls. The frequency of establishing the historical SDs depends on the stability of the quality controls, reagents and the entire analytic system.

The established QC range is generally \pm 2SD, but may be modified, e.g. \pm 5% or 10%, when the imprecision of the test method is significantly smaller than clinically useful reproducibility requirements.

Calculated Mean and the established historical SD will be used as the assay quality control range.

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Trends and Shifts

A trend in a quality control chart refers to a series of 5 to 7 daily control values that contribute either to increase or decrease from the mean value.

A shift in a quality control chart is when 5 to 7 or more daily control values for a period of days distribute themselves above or below the mean value, but are maintaining a constant level.

For each quantitative test performed, quality control data are prepared and plotted (i.e. Levy-Jennings) with each testing event to permit the laboratory to assess continued accuracy and precision of the method. This data must be reviewed to detect changes such as shifts or trends that may be indicators of test system problems that need to be addressed.

Trends and Shifts are not used as criteria to reject a quality control run as long the quality control run conforms to the primary QC criteria for the particular testing aforementioned above. It is in the discretion of the Laboratory Manager to initiate a corrective action if a problem exists in the procedure or instrumentation. In both cases, if a problem exists, immediate action must be taken to resolve the problem and documentation must indicate the reason for the shift or trend and the corrective action taken.

Recommended corrective action plan for Shift and Trending of control material:

- Check the dates when the control was opened and will expire.
- Check the dates when the reagents were opened and will expire.
- Investigate the possibility of inconsistent reconstitution and handling of control material.
- Recalibrate the reagent, especially if two or more controls have shifts.
- If the control shift after a new reagent lot number has been started, rerun
 the normal and abnormal patient specimens that were run with the control
 bearing the old lot number, if the patient correlations are good, the control
 shifts are probably acceptable. If they are poor, the reagents maybe bad.
- Try a new lot number of the reagent. If that corrects the problem, ask the reagent manufacturer to find out whether any problems have been reported with the old one.

Troubleshoot the instrument. Many kinds of malfunction can disturb the controls. Check sampling, reagent delivery, mixing, lamp integrity, and reaction temperature.

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SCPMG Laboratory System Process Control Policy

QUALITY CONTROL (QC) POLICY, Continued

QC Evaluation

QC results must be monitored periodically (i.e. weekly or every 5-7 data points) for shifts and trends by the CLS performing the assay. If any problem is noted, the Laboratory Manager must review it, and corrective action must be documented.

The CLS is responsible for observing the effects of new reagent lots and instrument elements (*e.g.*, new flow cell, column) on assay performance. Reagent or instrument element changes must be noted on the QC records.

The Laboratory Manager or the Lead CLS is responsible for reviewing QC data at least daily, and documenting the review with initials and date on the proper forms.

If it is determined that results were released in error because of a QC failure, the Laboratory Manager must initiate a retrospective patient results review to determine if patient results were adversely affected.

Corrective Action

Any corrective action taken must be documented.

When control results are outside the acceptable limits, the following steps must be taken before a test result can be reported.

- Review procedure and analytic system for identifiable errors. If a likely source of error is determined, rerun with original controls. If the repeat control run is within acceptable limits, patient results can be released and reported.
- If the repeat control run is still out, troubleshoot (recalibrate, prepare fresh
 controls, conduct instrument preventive maintenance, etc.) the procedure
 in conjunction with the Laboratory Manager if available.
- Document all corrective action taken using the computer system and/or the troubleshooting log. All corrective action steps must be indicated even if they are not successful (e.g., recalibrate, prepare fresh controls, conducted instrument preventive maintenance, notified vendor to conduct for repairs and maintenance).
- All calibration errors or failures, QC repeats and run failures, must be reviewed by the Laboratory Manager, with documentation of it.

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SCPMG Laboratory System Process Control Policy

QUALITY CONTROL (QC) POLICY, Continued

Weekly review by technical manager All QC performed in the laboratory will be reviewed by the technical managers on a weekly basis. A weekly QC review form will be used to document the review which include the following information(see *AttachmentQ1*):

- department QC is performed
- · dates of review
- instrument used if applicable
- tests that are being checked for quality control
- QC material used with lot number, expiration date, and inspection of quality material (initials, open dates and expiration dates once opened).
- QC assessment of QC status, new lot numbers to be established, shifts or trends noticed, and corrective actions performed.
- Signature of manager responsible of reviewing and Quality manager

All forms will be filed on "Weekly QC Review by Manager" binder.

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Attachment Q1

WEEKLY QC REVIEW BY MANAGERS

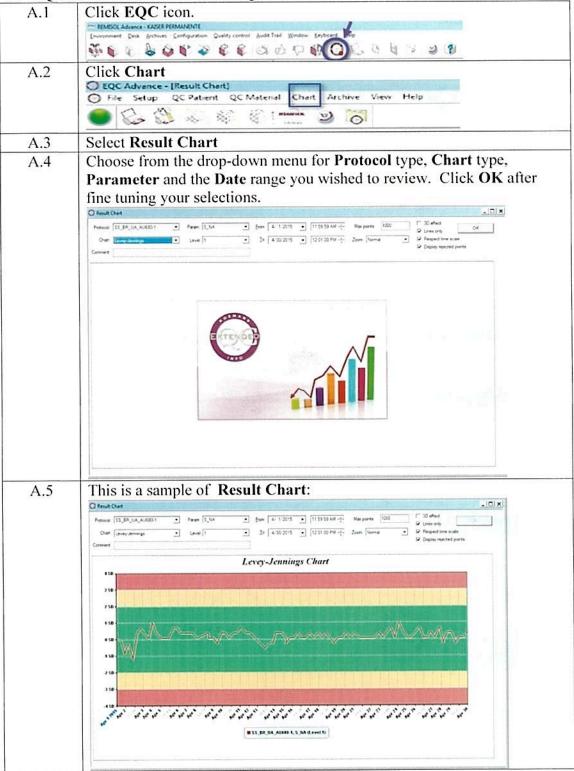
KAISER PERMANENTE LAMC

DEPARTMENT:	(e.g. HEMATOLOGY)				
DATES OF REVIEW:					
		The value at	bee Leading		
INSTRUMENT USED:					
TESTS	(e.g. CBC,DIFF,RETIC				
in south materices	ini, katab nami sidil	ni) inipateny viila			
QC REVIEWED	LOT NUMBER	EXPIRATION	QC MATERIAL INSPECTED?		
(e.g. COULTER 6 CELL)			□ YES □ NO		
(e.g. COULTER RETIC-X)			□ YES □ NO		
(e.g. COULTER LATRON)			□ YES □ NO		
(e.g. XBar)	n/a	n/a	n/a		
	QC ASSESS	MENT			
		- Control of the Cont			
		DATE			
QC REVIEWED BY:		DATE:			
QC REVIEWED BY: QUALITY MANAGER: .		DATE:			

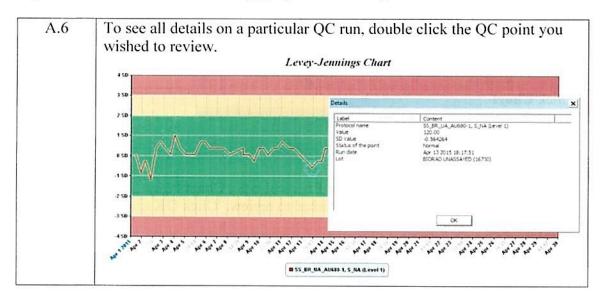
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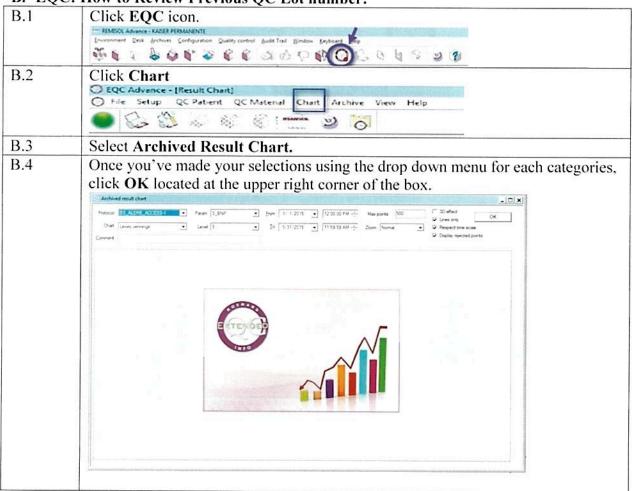
A. EQC: How to Review Current QC Lot number:

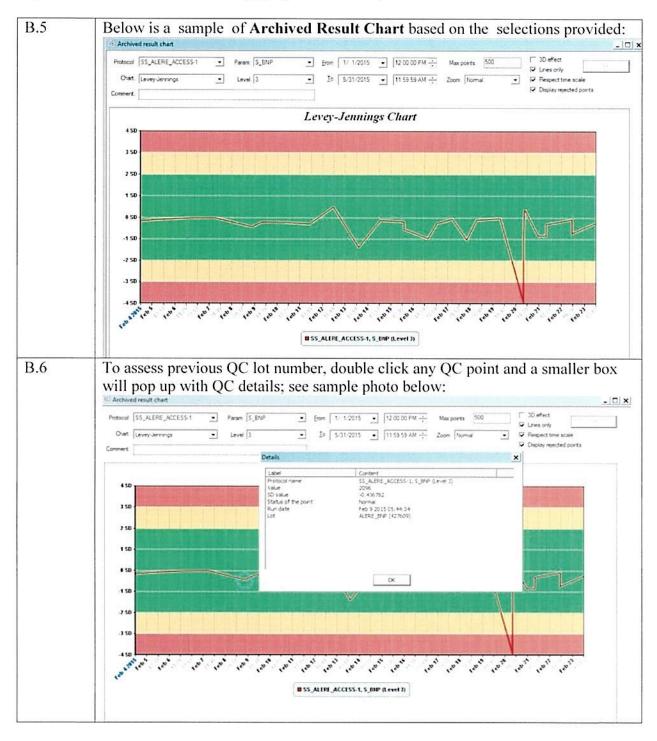


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B. EQC: How to Review Previous QC Lot number:





HISTORY PAGE

Change type:	Changes made to SOP -	Signature	Laboratory	Laboratory	Date change
New, major,	describe	responsible	Director	Manager	implemented
minor	1. 1. 1. 2 1. 1.	person/date	review/date	review/date	
Minor	schedule for Sasaden) mst		AC SIB	
6	Partied external de testin	10/15/13	XX 113		(115/13
	toquirement for theme		10/5011.		> 1
Marja	9180 AVL, PFA, PacH-1		,		
Maji	only isot, up the Chen		1) 2AC	
	Schapule Higuson for Shith	Y10114 X	18/14	Conde	Saclin
	hear las royadereMPB)	781211	7	
Major	Added Rimisol Advance - EQC	15015/2015	1/23/E)	136/12	7/Mr
3	Adoled Six Sigma Cateria	73 /	. /	m /	> (1, 1
Map	Paded OC weddy review by	9 9/21/15	Valesti	el 2 pas	•
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