

TRAINING UPDATE

Lab Location: SGAH & WAH
Department: Core - Chemistry

Date Distributed: 7/22/2014
Due Date: 8/6/2014
Implementation: 8/6/2014

DESCRIPTION OF PROCEDURE REVISION

Name of FORMS:
Vista QC Schedule, SGAH AG.F208.2 Vista QC Schedule, WAH AG.F209.2 QC Testing Frequency AG.F132.3
Description of change(s):
<p>Limit QC testing frequency for some analytes:</p> <p>* QC on Myoglobin is only run with patient testing ** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing</p> <p>Change in test menu for SG Vista 3: ***Only limited tests are performed on Vista 3</p> <p>QC Testing Frequency chart updated to match current practice (training updates previously done for individual tests)</p> <p>These revised FORMs will be implemented on August 6, 2014</p>

Document your compliance with this training update by taking the quiz in the MTS system.

Vista 1 QC Schedule

Off Peak Activity Starts at 10:15 am

Day Shift	Evening Shift		Night Shift		Day Shift
12:05 pm (After Off Peak Activity)	5:30 pm	9:30 pm	1:30 am	5:30 am	9:15 am
1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker* Levels 1, 2 & 3 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs** Levels 1, 2 & 3 9. Bio-Rad Panel Levels 1 & 2	1. Bio-Rad Panel Level 2 2. Therapeutic Drugs** Level 2 3. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 1	1. Bio-Rad Panel Level 1 2. Therapeutic Drugs** Level 3 3. UDRG Levels 1 & 2 4. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 2	1. LIQ Levels 1 & 3 2. Cardiac Marker* Levels 1 & 3 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs** Levels 1 & 3 8. Bio-Rad Panel Levels 1 & 2

* QC on Myoglobin is only run with patient testing

** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing

Vista 2 QC Schedule

Off Peak Activity Starts at 6:15 pm

Evening Shift	Night Shift		Day Shift		Evening Shift
8:05 pm (After Off Peak Activity)	12:30 am	4:30 am	8:30 am	12:30 pm	4:30 pm
1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker* Levels 1, 2 & 3 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs** Levels 1, 2 & 3 9. Bio-Rad Panel Levels 1 & 2	1. Bio-Rad Panel Level 2 2. Therapeutic Drugs** Level 2 3. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 1	1. Bio-Rad Panel Level 1 2. Therapeutic Drugs** Level 1 3. UDRG Levels 1 & 2 4. Cardiac Marker* Level 1	1. Bio-Rad Lytes Level 2	1. LIQ Levels 1 & 3 2. Cardiac Marker* Levels 1 & 3 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs** Levels 1 & 3 8. Bio-Rad Panel Levels 1 & 2

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** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing

Vista 3 QC Schedule

Off Peak Activity Starts at 1:15 am

Night Shift	Day Shift		Evening Shift		Night Shift
3:05 am (After Off Peak Activity)	7:30 am	11:30 am	3:30 pm	7:30 pm	11:30 pm
1. NBIL Level 2 2. Cardiac Marker* Levels 1, 2 & 3 3. Therapeutic Drugs** Levels 1, 2 & 3 4. Bio-Rad Panel*** Levels 1 & 2	1. Bio-Rad Panel*** Level 2 2. Therapeutic Drugs** Level 2 3. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 1	1. Bio-Rad Panel*** Level 1 2. Therapeutic Drugs** Level 2 3. Cardiac Marker* Level 3	1. Bio-Rad Lytes Level 2	1. Cardiac Marker* Levels 1 & 3 2. Therapeutic Drugs** Levels 1 & 3 3. Bio-Rad Panel*** Levels 1 & 2

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** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing

***Only limited tests are performed on Vista 3

Centaur CP QC Schedule

Day Shift	Evening Shift	Night Shift
Cardiac Marker Levels 1 & 3	Cardiac Marker Level 2	Cardiac Marker either Level 1 or 3

Serum Pregnancy Schedule

QC Performed Every Monday

Shift Change QC Check List

Day Shift QC check list		
Vista 1	Vista 2	Vista 3
9:30 am QC List 1. LIQ Levels 1 & 3 2. Cardiac Marker Levels 1 & 3* 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs Levels 1 & 3** 8. Bio-Rad Panel Levels 1 & 2 12:05 pm QC List 1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker levels 1, 2 & 3* 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs Levels 1, 2 & 3** 9. Bio-Rad Panel Levels 1 & 2	8:30 am QC List 1. Bio-Rad Panel Level 1 2. Therapeutic Drugs Level 1** 3. Cardiac Marker Level 1* 4. UDRG Levels 1 & 2 12:30 pm QC List 1. Bio-Rad Lytes Level 2	7:30 am QC List 1. Cardiac Marker Level 2* 2. Therapeutic Drugs Level 2** 3. Bio-Rad Panel Level 2*** 11:30 am QC List 1. Bio-Rad Lytes Level 1

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** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing

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Centaur CP Day Shift QC Check List	Cardiac Marker Levels 1 & 3
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Was Serum Pregnancy QC Performed on Monday? Yes No
Was QC Performed on Blood Gas Machine on Monday? Yes No

Night Shift QC check list		
Vista 1	Vista 2	Vista 3
1:30 am QC List 1. Cardiac Marker Level 2* 2. Therapeutic Drugs Level 3** 3. UDRG Levels 1 & 2 4. Bio-Rad Panel Level 1 5:30 am QC List 1. Bio-Rad Lytes Level 2	12:30 am QC List 1. Bio-Rad Panel Level 2 2. Therapeutic Drugs Level 2** 3. Cardiac Marker Level 2* 4:30 am QC List 1. Bio-Rad Lytes Level 1	11:30 pm QC List 1. Cardiac Marker Levels 1 & 3* 2. Therapeutic Drugs Levels 1 & 3** 3. Bio-Rad Panel Levels 1 & 2*** 3:05 am QC List 1. NBIL Level 2 2. Cardiac Marker Levels 1, 2 & 3* 3. Therapeutic Drugs Levels 1, 2 & 3** 4. Bio-Rad Panel Levels 1 & 2***

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Centaur CP Night Shift QC Check List	Cardiac Marker either Level 1 or 3
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Shift Change QC Check List

Evening Shift QC check list		
Vista 1	Vista 2	Vista 3
<p>5:30 pm QC List</p> <ol style="list-style-type: none"> 1. Cardiac Marker Level 2* 2. Therapeutic Drugs Level 2** 3. Bio-Rad Panel Level 2 <p>9:30 pm QC List</p> <ol style="list-style-type: none"> 1. Bio-Rad Lytes Level 1 	<p>4:30 pm QC List</p> <ol style="list-style-type: none"> 1. LIQ Levels 1 & 3 2. Cardiac Marker Levels 1 & 3* 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs Levels 1 & 3** 8. Bio-Rad Panel Levels 1 & 2 <p>8:05 pm QC List</p> <ol style="list-style-type: none"> 1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker Levels 1, 2 & 3* 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs Levels 1, 2 & 3** 9. Bio-Rad Panel Levels 1 & 2 	<p>3:30 pm QC List</p> <ol style="list-style-type: none"> 1. Cardiac Marker Level 3* 2. Therapeutic Drugs Level 2** 3. Bio-Rad Panel Level 1*** <p>7:30 pm QC List</p> <ol style="list-style-type: none"> 1. Bio-Rad Lytes Level 2

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Centaur CP Evening Shift QC Check List	Cardiac Marker Level 2
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Vista 1 QC Schedule

Off Peak Activity Starts at 10:00 am

Day Shift	Evening Shift		Night Shift		Day Shift
12:05 pm (After Off Peak Activity)	5:30 pm	9:30 pm	1:30 am	5:30 am	9:15 am
1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker* Levels 1, 2 & 3 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs** Levels 1, 2 & 3 9. Bio-Rad Panel Levels 1 & 2	1. Bio-Rad Panel Level 2 2. Therapeutic Drugs** Level 2 3. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 1	1. Bio-Rad Panel Level 1 2. Therapeutic Drugs** Level 3 3. UDRG Levels 1 & 2 4. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 2	1. LIQ Levels 1 & 3 2. Cardiac Marker* Levels 1 & 3 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs** Levels 1 & 3 8. Bio-Rad Panel Levels 1 & 2

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** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing

Vista 2 QC Schedule

Off Peak Activity Starts at 6:00 pm

Evening Shift	Night Shift		Day Shift		Evening Shift
8:05 pm (After Off Peak Activity)	12:30 am	4:30 am	9:00 am	1:00 pm	5:15 pm
1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker* Levels 1, 2 & 3 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs** Levels 1, 2 & 3 9. Bio-Rad Panel Levels 1 & 2	1. Bio-Rad Panel Level 2 2. Therapeutic Drugs** Level 2 3. Cardiac Marker* Level 2	1. Bio-Rad Lytes Level 1	1. Bio-Rad Panel Level 1 2. Therapeutic Drugs** Level 1 3. UDRG Levels 1 & 2 4. Cardiac Marker* Level 1	1. Bio-Rad Lytes Level 2	1. LIQ Levels 1 & 3 2. Cardiac Marker* Levels 1 & 3 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs** Levels 1 & 3 8. Bio-Rad Panel Levels 1 & 2

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** QC on Carbamazepine, Gentamicin, Phenobarbital, Theophylline and Tobramycin is only run with patient testing

Shift Change QC Check List

Day Shift QC check list	
Vista 1	Vista 2
9:15 am QC: 1. LIQ Levels 1 & 3 2. Cardiac Marker Levels 1 & 3* 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs Levels 1 & 3** 8. Bio-Rad Panel Levels 1 & 2 12:05 pm QC: 1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker Levels 1, 2 & 3* 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs Levels 1, 2 & 3** 9. Bio-Rad Panel Levels 1 & 2	9:00 am QC: 1. Bio-Rad Panel Level 1 2. Therapeutic Drugs Level 1** 3. UDRG Levels 1 & 2 4. Cardiac Marker Level 1* 1:00 pm QC: 1. Bio-Rad Lytes Level 2

Evening Shift QC check list	
Vista 1	Vista 2
5:30 pm QC: 1. Bio-Rad Panel Level 2 2. Therapeutic Drugs Level 2** 3. Cardiac Marker Level 2* 9:30 pm QC: 1. Bio-Rad Lytes Level 1	5:15 pm QC: 1. LIQ Levels 1 & 3 2. Cardiac Marker Levels 1 & 3* 3. CSF Levels 1 & 2 4. UDRG Levels 1 & 2 5. Urine Chem. Levels 1 & 2 6. CRP Levels 1 & 3 7. Therapeutic Drugs Levels 1 & 3** 8. Bio-Rad Panel Levels 1 & 2 8:05 pm QC: 1. LIQ Levels 1, 2 & 3 2. NBIL Level 2 3. Cardiac Marker Levels 1, 2 & 3* 4. CSF Levels 1 & 2 5. UDRG Levels 1 & 2 6. Urine Chem. Levels 1 & 2 7. CRP Levels 1, 2 & 3 8. Therapeutic Drugs Levels 1, 2 & 3** 9. Bio-Rad Panel Levels 1 & 2

Night Shift QC check list	
Vista 1	Vista 2
1:30 am QC: 1. Bio-Rad Panel Level 1 2. Therapeutic Drugs Level 3** 3. UDRG Levels 1 & 2 4. Cardiac Marker Level 2* 5:30 am QC: 1. Bio-Rad Lytes Level 2	12:30 am QC: 1. Bio-Rad Panel Level 2 2. Therapeutic Drugs Level 2** 3. Cardiac Marker Level 2* 4:30 am QC: 1. Bio-Rad Lytes Level 1

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QC Testing Frequency

Test	QC Frequency
Acetone (Serum)	Controls are performed once per day with patient testing and with each new lot number or shipment.
APT test	Run Adult and Cord Blood controls with each patient.
Beckman Coulter LH750	Refer to Addendum 4 of LH750 procedure.
Body and Synovial Fluid Analysis	QC will be performed every 8 hours of patient testing for manual body fluid counting and per technologist.
C. DIFF Quik Chek Complete	Internal Controls are recorded for each patient testing. Positive and negative External controls are run with each new kit lot number or shipment or every 30 days, whichever is more frequent.
Centaur, BNP	Analyze all 3 levels of QC material after each calibration. Each day of patient testing QC Levels 1 and 3 are run on day shift, Level 2 on evening shift, and either Level 1 or 3 on night shift.
Centaur, iPTH	Run 3 levels of QC with patient testing.
Clinitek 500	QC is performed once per day.
Clinitest	QC is performed once per day and when a new bottle of reagent is placed in use.
CSF and Fluid	QC should be tested every eight hours on days that CSF analysis is performed, and per technologist.
D-Dimer	Both Controls are run at the beginning of each shift, every 4 hours after, and with the change of any reagent used in test performance.
Diff Stain, Hematology	QC is performed once a day and before first patient use with each lot number and/or shipment of any reagent.
Dimension Vista System	Refer to Vista charts for times.
ESR	Level 1 and 2 of the SEDRite Plus should be run at least once per day at the beginning of the shift.
ESR, Westergren Method	Both levels of control are tested for every 8-hour shift of patient testing.
Fetal Fibronectin	The Rapid fFN Control Kit (Positive and Negative) is run each time a new lot or new shipment of Rapid fFN cassettes is received. The TLI _{IQ} QCette is to be run once every 24 hours of patient testing
Fibrinogen	Both Controls are run at the beginning of each shift, every 4 hours after, and with the change of any reagent used in test performance.
Fluid pH	Both levels should be run each time a patient is tested.



- Germantown Emergency Center
- Shady Grove Adventist Hospital
- Washington Adventist Hospital

Test	QC Frequency
Gram Stain, Microbiology	QC is performed once a day and before first patient use with each lot number and/or shipment of any reagent.
Gastrocult	QC is performed with each patient testing.
HCG Qualitative Serum & Urine	Internal procedural control is run with each patient testing. The external negative and positive controls must be performed once per week for both urine and serum.
Ietotest	QC is performed once per day and when a new bottle of reagent is placed in use.
Influenza	Internal Controls are performed and documented for each patient tested. Positive and negative External QC is run with each new kit lot number or shipment or every 30 days, whichever is more frequent.
IRIS Fluid	Both "Background Check" and QC are performed every eight hours of patient testing.
IRIS Urinalysis	QC is performed once per shift on both AX-4280 and iQ 200 modules. QC is also done when new shipment or lot number of reagent is received.
Kleihauer Betke	QC should be run each time a patient is tested.
Malaria	Each batch of patient smears is evaluated for proper staining characteristics.
Monotest, Qualitative	Positive and Negative controls are to be tested with each patient testing.
Multistix 10 SG	QC is performed once per day and when a new bottle of reagent is placed in use.
Occult Blood	Internal QC is performed with each test. Positive and negative External QC is run once per week and when a new Lot/shipment of test kits is received.
Osmolality	Quality Control is run upon arrival of any patient samples during a shift. If no osmolality test is received during a shift, then no QC is required to be run.
PFA-100	Self Test is performed once per shift and any time the instrument is turned off/on. The Control Donor Group is analyzed semi-annually to ensure the individuals remain within acceptable limits. An acceptable donor from the Control Donor group will be analyzed with each new shipment or lot number of test cartridges and after major repair on the instrument.
Platelet Count, Thrombo-TIC Method	Normal Patient QC: Run once per shift per tech prior to release of patient results and with each new lot number of shipment of Thrombo-TIC reservoirs. Diluent Background Check: performed once per month and with each new lot number or shipment.
PT & APTT	Both Controls are run at the beginning of each shift, every 4 hours after, and with the change of any reagent used in test performance.

Test	QC Frequency
Rapid HIV	The kit has an internal control which is run with each test performed. External QC is run when a new shipment of test kits is received, if the temperature of the test kit storage falls outside 2-27° C or if the temperature of the testing area falls outside of 15-37° C.
Refractometer	QC is performed once per day.
Reticulocyte Count, Manual	Both levels of Control will be performed every 8 hours of patient testing for body fluid analysis and per technologist.
Rotavirus	The internal QC is run and recorded for each patient. Positive and negative External QC is run with each new kit lot number or shipment or every 30 days, whichever is more frequent.
RSV	The internal QC is run and recorded for each patient. Positive and negative External QC is run with each new kit lot number or shipment or every 30 days, whichever is more frequent.
Stool WBC	A blood smear must be reviewed on a daily basis to verify that the staining is adequate for differential of the various cells.
Streptococcus Group A	Internal Controls are recorded for each patient testing. Positive and negative External QC is run with each new kit lot number or shipment or every 30 days, whichever is more frequent.
Sulfosalicylic Acid, 3%	QC is performed once per day and when a new bottle of reagent is placed in use.
Sweat Test	All 3 levels should be run each time that a patient is tested.
Thrombin Time	Both Controls are run at the beginning of each shift, every 4 hours after, and with the change of any reagent used in test performance.
Triage Meter, BNP	The Electronic QC Simulator (QC Device) will be run once every 24 hours. The external liquid QC will be run at least once a month and with every new lot and shipment.