

**HACKETTSTOWN REGIONAL MEDICAL CENTER
CARDIO PULMONARY POLICY MANUAL
OUT OF RANGE QUALITY CONTROLS**

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Effective Date: August 2010
Cross Referenced:
Reviewed Date: 10/15
Revised Date: 06/12

Policy No: 4A.014
Origin: Cardio Pulmonary
Authority: Cardio/Pulmonary Manager
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Purpose: To assure that out of range quality controls are re-run when out of acceptable range.

Procedure: The automatic QC analysis option performs quality control analysis at the scheduled time and for the scheduled level. . Operators no longer need to handle ampules of QC material to perform analysis; the system does it automatically. The cartridge contains all the levels of QC material needed to monitor system performance without operator intervention. The automatic QC cartridge provides the target range for each level of QC material when you replace the cartridge. The target ranges from the automatic QC cartridge more closely represent system performance than target ranges from QC material supplied in ampules.

During automatic QC analysis the system compares the results to the ranges for each parameter and identifies any results that are out of range. Any parameters that fail QC are turned off. The system repeats QC analysis if the first attempt fails and turns on any failed parameters that pass. Any parameters that fail the second QC analysis are turned off.

The system allows you to analyze a sample from the automatic QC cartridge in addition to the scheduled automatic QC. When you analyze an automatic QC, the results can affect parameter status. The system turns failed parameters on the pass QC analysis for the failed level and turns parameters off that do not pass. If you analyze, routine unscheduled QC samples from an ampule, the results have no affect on the parameter status.

If every attempt has been made to restore QC and the parameters are still out of range, contact technical support. In the event of a critical failure of the ABG machine, system shutdown will be performed according to section 4-49 of the operator's manual.

The other ABG machine will be placed into service following the procedure outlined in the operator's manual section 5.