**SCOPE**

This procedure applies to UPMC Hanover Hospital.

**NOTE**

For detailed instructions refer to iSTAT ACT Cartridge procedure.

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| **PROCEDURE****1** | * Remove Level 1 and Level 2 controls from refrigerator. Allow to stand at room temperature 45 minutes before preparation.
* Remove cap from Level 1 control.
* Remove cap from one vial of calcium chloride solution
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| **2** | * Pour entire contents of the calcium chloride vial to the Level 1 control vial.
* Replace the stopper in the Level 1 vial. Allow to stand at room temperature for 1 minute.
 |
| **3** | * Mix vial by swirling gently for one minute, then invert slowly for 30 seconds.
* **Note**: Minimize foaming by avoiding vigorously mixing.
* Visually inspect the control solution for complete reconstitution. If not, discard and start over with fresh vials.
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| **4** | * Using a tuberculin syringe or transfer pipette, immediately transfer the Level 1 control solution into the ACT cartridge.
* Close the cover over the sample well until it snaps into place. Do not press the area over the sample well.
 |
| **5** | * Immediately insert the cartridge into the analyzer.
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| **6** | * When testing is complete, the analyzer will display PASS or FAIL. If the control does not PASS, repeat the test using a fresh control. If control fails upon repeat testing, notify the Point of Care Coordinator.
* **Do not use any lot number of cartridges for patient testing that fails quality control.**
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| **7** | * Follow steps 1 – 6 using the Level 2 control
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**References:**

Abbott Point of Care. Procedure Manual for the i-STAT System. Rev. Date 6/2019.