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| Dept. | CHEMISTRY | Policy #: | 04-007 |
| Policy/ProcedureTitle | RUNNING QC BECKMAN SYNCHRON DxC800 | Effective Date: | 05/25/16 |
| Revised Date: |  |
| AuthorizedApproval: | Cindy Schwartz, CLS,Area Lab ManagerJana Pindur, M.D., Laboratory Director |
| Personnel Covered: | All Chemistry Staff |
| Page: | 1 | of | 3 |

**Policy**

Quality control must be processed and acceptable on the day patients samples are ran. In addition, QC should be performed:

* After a new reagent is loaded
* After calibration
* After major maintenance

Barcoded QC rack can be used to run the entire QC panel, if the entire panel is not needed, QC should be manually programmed.

**Note:**

One of the most common reasons for QC to be missed is due to the QC rack programming not being cleared. When this occurs there will be (r) flag next to the result for an analyte that was not programmed for a repeat. The QC printout would show the current day/time when in fact no QC was performed. To eliminate this problem, the QC rack barcode must be cleared prior to running QC using F7 (clear) by scanning each QC rack barcode or enter A-Z in the sample ID “from – to” field, then press ok.

***This should be done every time prior to using the barcoded QC rack.***

**Programming QC manually:**

Follow the steps to program samples manually.

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| Step | Action |
| 1. | Select **SAMPLES** from the menu bar. |
| 2. | Select **F5 QC**. |
| 3. | Select appropriate QC. |
| 4. | Choose the rack and position field |
| 5. | Select test(s) to run QC. |
| 6. | Select **F10 Next** to save. |
| 7. | Place sample in the rack  |
| 8. | Place rack on the autoloader and press run. |

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| ***DxC 800*** | ***[Unassayed Chemistry]*** | ***[Urine Chemistry]*** |
| **Sample Type** | Serum | Urine |
| **Storage** **Unopened** **Open** | - 20 ˚C to - 70 ˚C2 – 8 ˚C | 2 – 8 ˚C2 – 8 ˚C |
| **Stability (Thawed and Opened)** | 6 days | 30 days |
| **Level** | 1 and 2 | 1 and 2 |
| **Analytes** | NA, K, CL, CO2, CALC, BUNm, CREm, PHOSm, GLUm, TPm, ALBm, ALP, ALT, AST, LD, LIP, CK, URIC, MG, DBIL, TBIL, LACT,THE | NA, K, CL, CREm, M-TP |

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| ***DxC 800*** | ***[Immunoassay Plus]*** | ***[Spinal Fluid]*** |
| **Sample Type** | Serum | CSF |
| **Storage** **Unopened** **Open** | - 20 ˚C to - 70 ˚C2 – 8 ˚C | 2 – 8 ˚C2 – 8 ˚C |
| **Stability (Thawed and Opened)** | 14 days (Estradiol 5 days) | 30 days |
| **Level** | 1 and 3 | 1 and 2 |
| **Analytes** | ACTM, DIGN, GEN, PHE, PHY, SALY, VANC, CAR, VPA | M-TP, GLU, LACT |

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| ***DxC 800*** | ***[Cardiac Marker Plus]*** | ***[Ethanol/Ammonia]*** |
| **Sample Type** | Serum | Serum |
| **Storage** **Unopened** **Open** | - 20 ˚C to - 70 ˚C2 – 8 ˚C | 2 – 8 ˚C2 – 8 ˚C |
| **Stability (Thawed and Opened)** | 10 days | 20 days |
| **Level** | 1 and 2 | 1 and 3 |
| **Analytes** | CRPh | AMM, ETOH |

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| ***DxC 800*** | ***[Pediatric Bili Control]*** |  |
| **Sample Type** | Serum |  |
| **Storage** **Unopened** **Open** | - 20 ˚C to - 70 ˚C2 – 8 ˚C |  |
| **Stability (Thawed and Opened)** | 14 days |  |
| **Level** | 1 and 2 |  |
| **Analytes** | TBIL, DBIL |  |
| All QC materials are good until expiration day if stored unopened at the recommended temperature. |

**Document History Page**

**Effective Date:**

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| **Change type: New, Major, Minor etc.** | **Changes Made to SOP - describe** | **Signature responsible person/date** | **Med. Director****Authorized Reviewed/Date** | **Lab Manager****Authorized****Reviewed/Date** | **Date change Implemented** |
| Major | New | Cindy Schwartz 5/25/16 |  |  |  |
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