	Origination	9/29/2021	Document	Tanya Williams:
Beaumont	Last Approved	6/24/2024	Contact	Medical Technologist Lead Laboratory- Chemistry
	Effective	6/24/2024	Area	
	Last Revised	6/24/2024		
	Next Review	6/24/2026	Applicability	Taylor

Chemistry Quality Control Schedule - Taylor

Document Type: Guideline

I. PURPOSE AND OBJECTIVE:

To provide the laboratory technical staff with a schedule of instrumentation and frequency of Quality Control material within the Chemistry department.

II. PROCEDURE:

Status (Active) PolicyStat ID (15981367)

Analyzer ci4100	Control Bio-Rad Unassayed Chemistry	Frequency
Albumin	L1, L2	2x Daily
Alkaline Phosphatase	L1, L2	2x Daily
Alanine Aminotransferase	L1, L2	2x Daily
Amylase	L1, L2	2x Daily
Aspartate Aminotransferase	L1, L2	2x Daily
Calcium	L1, L2	2x Daily
Creatine Kinase	L1, L2	2x Daily
Chloride	L1, L2	3x Daily
Carbon Dioxide	L1, L2	3x Daily
Creatinine	L1, L2	2x Daily
Direct Bilirubin	L1, L2	2x Daily
Enzymatic Creatinine	L1, L2	2x Daily

Glucose	L1, L2	2x Daily
Lactate Dehydrogenase	L1, L2	2x Daily
Lactic Acid	L1, L2	2x Daily
Lipase	L1, L2	2x Daily
Magnesium	L1, L2	2x Daily
Phosphorous	L1, L2	2x Daily
Potassium	L1, L2	3x Daily
Sodium	L1, L2	3x Daily
Total Bilirubin	L1, L2	2x Daily
Total Protein	L1, L2	2x Daily
Urea	L1, L2	2x Daily
Uric Acid	L1, L2	2x Daily
Analyzer ci4100	Control Bio-Rad Immunoassay Plus	Frequency
Acetaminophen	L1, L2, L3	2x Daily
Beta-Human Chorionic Gonadotropin	L1, L2, L3	2x Daily
Digoxin	L1, L2, L3	2x Daily
Free Thyroxine	L1, L2, L3	2x Daily
Salicylate	L1, L2, L3	2x Daily
Thyroid Stimulating Hormone	L1, L2, L3	2x Daily
Valproic Acid	L1, L2, L3	2x Daily
Vancomycin	L1, L2, L3	2x Daily
Analyzer ci4100	Control Bio-Rad Liquichek Ethanol/Ammonia	Frequency
Ethanol	L1, L3	2x Daily
Ammonia	L1 L3	2x Daily
Analyzer ci4100	Control Bio-Rad Cardiac Markers Plus	Frequency
Brain Natriuretic Peptide	L1, L2, L3	2x Daily
Troponin	L1, L2, L3	2x Daily

Analyzer ci4100	Control Bio-Rad Immunology	Frequency
C-Reactive Protein	L1, L3	2x Daily
Analyzer ci4100	Control UTAK Amphetamine Plus	Frequency
Amphetamine	L1, L2	2x Daily
Barbiturate	L1, L2	2x Daily
Benzodiazepine	L1, L2	2x Daily
Cannabinoid	L1, L2	2x Daily
Cocaine	L1, L2	2x Daily
Fentanyl	L1, L2	2x Daily
Methadone	L1, L2	2x Daily
Opiate	L1, L2	2x Daily
Oxycodone	L1, L2	2x Daily
Phencyclidine	L1, L2	2x Daily
Analyzer ci4100	Control Bio-RAd Liquichek Spinal Fluid	Frequency
Cerebral Spinal Fluid Glucose	L1, L2	Weekly or As Needed
Cerebral Spinal Fluid Protein	L1, L2	Weekly or As Needed
Analyzer ci4100	Control Bio-Rad Specialty Immunoassay	Frequency
Procalcitonin	L1, L2, L3	As Needed
Analyzer	Control	
ci4100	Stanbio	Frequency
	Beta-hydroxybutyrate	
Beta-hydroxybutyrate	L1, L2	As Needed

Analyzer ABL 825 Flex	Control Radiometer America Autocheck 5+	Frequency Auto Programmed
рН	L1, L2, L3	1 level every 8 hours
pCO ₂	L1, L2, L3	1 level every 8 hours
Na ⁺	L1, L2, L3	1 level every 8 hours
K ⁺	L1, L2, L3	1 level every 8 hours
Ca ⁺⁺	L1, L2, L3	1 level every 8 hours
CI	L1, L2, L3	1 level every 8 hours
Lactate	L1, L2, L3	1 level every 8 hours
Carboxyhemoglobin	L1, L2, L3	1 level every 8 hours
Methemoglobin	L1, L2, L3	1 level every 8 hours
tHb	L1, L2, L3	1level every 8 hours
O ₂ Hb	L1, L2, L3	1 level every 8 hours
Glucose	L1, L2, L3	1 level every 8 hours

A. All applicable controls must be run after calibration of any method or parameter, after any maintenance, repair, reagent change or extended power failure.

- B. Corewell Taylor Laboratory is enrolled in Bio-Rad Unity Real Time program, Radiometer AQURE and Stanbio Peer Group Monitor. These programs provide a calculation for mean, standard deviation and coefficient of variation.
- C. Quality control is reviewed by a Lead Medical Technologist at least monthly.

Approval Signatures

Step Description	Approver	Date
Medical Director	Muhammad Arshad: Chief, Pathology	6/24/2024
Policy and Forms Steering Committee Approval (if needed)	Tanya Williams: Medical Technologist Lead	6/18/2024
	Christopher Ferguson: Dir, Lab Operations B	6/18/2024
	Helen Anonick: Supv, Lab Processing	6/18/2024

Katherine Persinger: Mgr, Laboratory	6/14/2024
Tanya Williams: Medical Technologist Lead	6/11/2024

Applicability

Taylor

