

Panels Offered at Spectrum Health

Approved by MEC April 2020



AMA Approved Panels

| Panel Name | Tests Included in Panel |
|-------------------------------|--|
| Acute Hepatitis Panel | Hepatitis B surface antigen, Hepatitis B core antibody-IgM, Hepatitis A antibody-IgM, Hepatitis C antibody |
| Basic Metabolic Panel | Sodium, Potassium, Chloride, Bicarbonate, Creatinine, Urea Nitrogen (BUN), Glucose, Calcium (Total) |
| Comprehensive Metabolic Panel | Sodium, Potassium, Chloride, Bicarbonate, Creatinine, Urea Nitrogen (BUN), Glucose, Calcium (Total), Total Protein, Albumin, Aspartate Aminotransferase (AST), Alanine Aminotransferase (ALT), Alkaline Phosphatase, Total Bilirubin |
| Electrolyte Panel | Sodium, Potassium, Chloride, Bicarbonate |
| Hepatic Function Panel | Albumin, Alkaline Phosphatase, Alanine Aminotransferase (ALT), Aspartate Aminotransferase (AST), Total Bilirubin, Direct Bilirubin, Total Protein |
| Lipid Panel | Cholesterol, HDL Cholesterol, Triglycerides, Calculated LDL Cholesterol, Non HDL Cholesterol |
| Renal Panel | Sodium, Potassium, Chloride, Bicarbonate, Creatinine, Urea Nitrogen (BUN), Glucose, Calcium (Total), Albumin, Phosphorus (PO4) |

Additional Panels Offered at Spectrum Health

| Panel Name | Tests Included in Panel |
|--------------------------------------|---|
| Acid Fast bacilli Culture with Smear | Acid Fast bacilli Culture, Acid Fast Stain , and additional charges as indicated |
| Adulteration Panel | specific gravity, pH, creatinine |
| Alpha-Globin Gene Analysis | DNA Extract-Purify, Enzyme Digest, Separation by Gel Electrophoresis, [Amplification, target, multiplex, first 2 nucleic acid sequences (x2)], Separation and identification by high-resolution technique, Interpretation and Report, Mutation identification by enzymatic ligation or primer extension (x15) |
| APTT Heparin Neutralization | APTT, Heparin Neutralized PTT |
| Bronchial Alveolar Lavage | Acid Fast bacilli Culture with smear, Fungal Culture – Respiratory, Fungal Smear, Gram Stain, Legionella culture, Legionella Direct Fluorescent Antibody, Quant Respiratory Culture, and additional studies as indicated. |
| Benzodiazepines Urine Level Panel | Alprazolam metabolite, Lorazepam, Oxazepam, Clonazepam metabolite, Nordiazepam, Temazepam |
| Body Fluid Microbiology Labs | Bacterial culture (anaerobic) [Test Code: 8885], Body Fluid Cult w/ gram stain [Test Code: 166], Fungal culture w/ Fungal Smear [Test Code: 8898] |

| Panel Name | Tests Included in Panel |
|---|--|
| Bordetella Pertussis IgG Ab | B. Pertussis PT IgG and B. Pertussis FHA IgG (Performed at reference laboratory) |
| Colon Mutation Analysis Panel | KRAS mutation, NRAS mutation, and BRAF mutation |
| Comprehensive Drug Screen (Blood, Urine, or Gastric) (#4, 6, 200) | Alkaline Drug screen by GCMS, Acid Drug Screen by GCMS, Volatile screen |
| Cryptococcus CSF Panel | Cryptococcus Ag, Fungal Culture (performed whenever "Cryptococcus Ag" is ordered on a CSF per CAP guidelines) |
| CSF Microbiology Labs | Gram Stain [Test Code: 8880] |
| Urine Drug Screen with Confirmation (23 Targets) LAB1230496 | Amphetamines (2), Amphetamine, Methamphetamine, Benzodiazepines (6), Oxazepam, Alprazolam Metabolite, Clonazepam Metabolite, Lorazepam, Nordiazepam, Temazepam, Cannabinoids (1), THC Metabolite, Cocaine (1), Cocaine Metabolite, Methadone (2), Methadone, Methadone Metabolite, Opiates (7), Codeine, Morphine, 6MAM Heroin Metabolite, Hydrocodone, Hydromorphone, Oxycodone, Oxymorphone, Tramadol (2), Tramadol, Tramadol Metabolite, Fentanyl (2), Fentanyl, Fentanyl Metabolite |
| Urine Drug Screen with Confirmation (32 Targets) LAB1230497 | Amphetamines (2), Amphetamine, Methamphetamine, Benzodiazepines (6), Oxazepam, Alprazolam Metabolite, Clonazepam Metabolite, Lorazepam, Nordiazepam, Temazepam, Cannabinoids (1), THC Metabolite, Cocaine (1), Cocaine Metabolite, Methadone (2), Methadone, Methadone Metabolite, Opiates (7), Codeine, Morphine, 6MAM Heroin Metabolite, Hydrocodone, Hydromorphone, Oxycodone, Oxymorphone, Tramadol (2), Tramadol, Tramadol Metabolite, Fentanyl (2), Fentanyl, Fentanyl Metabolite, Methylphenidate (2), Methylphenidate, Methylphenidate Metabolite, Methylenedioxyamphetamines (2), MDMA, MDA, Buprenorphine (2), Buprenorphine, Buprenorphine Metabolite, Gabapentin (1), Gabapentin, Pregabalin (1), Pregabalin, Ethanol (1), Ethanol |
| Drug of Abuse Screen LAB3227 (If confirmation ordered, reflex will occur as indicated in parenthesis) | Amphetamines screen (confirmation: Amphetamine, Methamphetamine, MDMA, MDA), Barbiturates screen (confirmation: Butalbital, Secobarbital, Pentobarbital, Phenobarbital), Benzodiazepines screen (confirmation: Benzodiazepines Urine Level Panel), Cannabinoids screen (confirmation: Cannabinoids), Cocaine Metabolites screen (confirmation: Cocaine metabolites), Ethanol screen (confirmation: Ethanol), Methadone Metabolites screen (confirmation: Methadone, EDDP), Opiate screen (confirmation: Expanded Opiate Confirmation Panel), Oxycodone screen (confirmation: Expanded Opiate Confirmation Panel), Adulteration Panel |

| Panel Name | Tests Included in Panel |
|--|---|
| Drug Screen-Pain Management Panel LAB3382 (If confirmation ordered, reflex will occur as indicated in parenthesis) | Amphetamines screen (confirmation: Amphetamine, Methamphetamine, MDMA, MDA), Barbiturates screen (confirmation: Butalbital, Secobarbital, Pentobarbital, Phenobarbital), Benzodiazepines screen (confirmation: Benzodiazepines Urine Level Panel), Cannabinoids screen (confirmation: Cannabinoids), Cocaine Metabolites screen (confirmation: Cocaine metabolites), Ethanol screen (confirmation: Ethanol), Methadone Metabolites screen (confirmation: Methadone, EDDP), Expanded Opiates Confirmation Panel, Adulteration Panel |
| Drug Screen, Meconium | Cannabinoids, Opiates (morphine, codeine, hydrocodone, hydromorphone, oxycodone, oxymorphone), amphetamines/methamphetamine, methadone, methadone metabolite. |
| Dialysis Hepatitis Panel | Hepatitis B surface antigen, Hepatitis B core antibody-IgM, Hepatitis B surface antibody, Hepatitis A antibody-IgM, Hepatitis C antibody |
| Enteric Pathogen Panel | Campylobacter Group, Salmonella spp, Shigella spp, Vibrio Group (V. Cholerae and V. parahaemolyticus) Yersinia enterocolitica, Norovirus, Rotavirus, Shiga Toxin 1, Shiga Toxin 2 |
| Expanded amphetamines confirmation panel | MDMA, MDA |
| Expanded opiates confirmation panel | Codeine, Morphine, Hydrocodone, Hydromorphone, Oxycodone, Oxymorphone, 6-MAM |
| Film Array Group Respiratory Panel | Adenovirus PCR FmAr, Coronavirus 229E PCR FmAr, Coronavirus HKU1 PCR FmAr, Coronavirus NL63 PCR FmAr, Coronavirus OC43 PCR FmAr, Influenza A PCR FmAr, Influenza A H3 PCR FmAr, Influenza A H1 PCR FmAr, Influenza A 2009 H1 PCR FmAr, Influenza B PCR FmAr, Metapneumovirus PCR FmAr, Parainfluenza 1 PCR FmAr, Parainfluenza 2 PCR FmAr, Parainfluenza 3 PCR FmAr, Parainfluenza 4 PCR FmAr, RSV PCR FmAr, Rhinovirus-Enterovirus PCR FmAr, Bordetella PCR FmAr, Chlamydomphila pneumoniae PCR FmAr, Mycoplasma pneumoniae PCR FmAr |
| Film Array Mycoplasma pneumoniae/Chlamydomphila pneumoniae PCR panel | Mycoplasma pneumoniae PCR FmAr, Chlamydomphila pneumoniae PCR FmAr |
| Fungus Culture | Fungal Smear and Fungus Culture (all fungus cultures except the fungus blood cultures will have a Fungus Smear) |
| General Health Panel | Complete Metabolic Panel, CBC w/ Auto Diff, TSH |
| GI Distress Panel | Transglutaminase Ab IgA; Transglutaminase Interp; Transglutaminase Ab IgG; Gliadin Ab IgA; Gliadin Ab IgG Egg White IgE; Cow's Milk IgE; Wheat IgE; Gluten IgE; Sesame Seed IgE; Peanut IgE; Soybean IgE; Hazelnut IgE; Walnut IgE; Codfish IgE; Shrimp IgE; Scallop IgE; Total IgA |
| Gliadin Antibodies | Gliadin Antibody(IgA), Gliadin Antibody (IgG) |

| Panel Name | Tests Included in Panel |
|---|---|
| Hemoglobin Electrophoresis Cascade | Agar Electrophoresis Confirms, Hemoglobin Electrophoresis B, Hemoglobin A2 and F, Hemoglobin S, Screen, B |
| Herpes Simplex IgG Antibody | Herpes Simplex Type 1 (IgG) Antibody, Herpes Simplex Type 2 (IgG) Antibody |
| Adult Respiratory/Environmental Allergy Panel | Cat epithelium/dander (e1), Dog dander (e5), Mouse epithelium/serum/urine (e88), Cockroach (i6), <i>D. farinae</i> (d2), <i>D. pteronyssinus</i> (d1), <i>Alternaria alternata</i> (m6), <i>Aspergillus fumigatus</i> , Cladosporium herbarum (m2), Penicillium chrysogenum (m1), Mugwort, Ragweed (common/short), Timothy grass, Birch, Cottonwood/Poplar, Elm, Maple ,Oak |
| Child Respiratory/Environmental Allergy Panel | Cat epithelium/dander (e1), Dog dander (e5), Mouse epithelium/serum/urine (e88), Cockroach (i6), <i>D. farinae</i> (d2), <i>D. pteronyssinus</i> (d1), <i>Alternaria alternata</i> (m6), <i>Aspergillus fumigatus</i> , Ragweed (common/short), Timothy grass, Birch, Oak |
| Food Allergy Basic Panel | Egg White (f1), Milk (Cow) (f2), Peanut (f13), Soybean (f14), Wheat (f4) |
| Food Allergy Comprehensive Panel | Almond (f20), Cashew (f202), Cod (f3), Egg White (f1), Hazelnut (f17), Milk (Cow) (f2), Peanut (f13), Salmon (f41), Scallop (f338), Sesame Seed (f10), Shrimp (f24), Soybean (f14), Tuna (f40), Walnut (f256), Wheat (f4) |
| Food Allergy Nut Panel | Almond, Brazil Nut, Cashew, Hazelnut, Macadamia Nut, Peanut, Pecan, Pistachio, Walnut |
| Food Allergy Fish and Seafood Panel | Cod, Crab, Lobster, Salmon, Scollop, Shrimp, Tilapia and Tuna |
| Adult Respiratory/Environmental Allergy Panel | Cat epithelium/dander (e1), Dog dander (e5), Mouse epithelium/serum/urine (e88), Cockroach (i6), <i>D. farinae</i> (d2), <i>D. pteronyssinus</i> (d1), <i>Alternaria alternata</i> (m6), <i>Aspergillus fumigatus</i> , Cladosporium herbarum (m2), Penicillium chrysogenum (m1), Mugwort, Ragweed (common/short), Timothy grass, Birch, Cottonwood/Poplar, Elm, Maple ,Oak |
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| Leukemia/Lymphoma Immunophenotyping Panel | CD1, CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD13, CD14, CD19, CD20, CD30, CD33, CD34, CD38, CD45, CD56, CD61, CD117, kappa, lambda, HLA-DR, Glycophorin A |
| Molecular Lung Cancer Panel | EGFR mutation; KRAS mutation; BRAF mutation; ERBB2 mutation; ALK rearrangement; ROS1 rearrangement; RET rearrangement; MET amplification |

| Panel Name | Tests Included in Panel |
|--|---|
| MPN Panel | CALR exon 9, JAK2 exon 12 and MPL exon 10, which, in addition to BCR-ABL gene fusion and JAK2 V617F mutation testing |
| Natural Killer Cell/Complete Panel | CD3, CD4, CD8, CD16/CD56, CD19 |
| Neuroblastoma Panel | GD2, CD56, CD81, CD9, CD34, CD45 |
| Novel H1N1 RT-PCR | Novel H1N1 RT-PCR and Influenza A RT-PCR (available only during Flu season typically January through March) |
| Obstetric Panel | ABO & Rh Blood Typing, Antibody Screen, Syphilis IgG antibody, Rubella antibody, Complete Blood Count (CBC) w/diff, Hepatitis B surface antigen |
| Opioid Confirmation Panel – 2 nd Tier | Methadone/EDDP LC/MS Confirmation, Tapentadol LC/MS Confirmation, Tramadol LC/MS Confirmation |
| Ova and Parasite Screen | Cryptosporidium screen, Giardia screen |
| Ova and Parasites, Stool complete | Ova and parasites (direct and concentrated exam), Ova & Parasite Screen Giardia, Ova Parasite Cryptosporidium, Trichrome Stain |
| RSV PCR | RSV type A and B |
| Sarcoidosis Panel | CD3, CD4, CD8, CD16/CD56, CD19 |
| Serum Immunoglobulin Panel | Serum IgG, IgA, and IgM |
| STD Panel | Chlamydia trachomatis by PCR, Gonococcus by PCR |
| Sweat Chloride Test | two arm reporting; testing will be done on each arm and each order will consist of 2 times the analysis and 2 times the collection |
| Toxic Alcohol Screen Panel | Volatile Screen, Ethylene Glycol |
| Type and Screen | ABO/Rh Blood Type and Antibody Screen |
| Urinalysis with Culture | Urinalysis with urine culture performed regardless of urinalysis results (only available in <i>PEDs ED powerplans</i>) |
| Virus Culture | Viral shell vial culture with stain and additional testing as indicated, Viral ID |
| Von Willibrand Profile | Factor VIII Activity, Von Willebrand Factor Antigen, Von Willibrand Ristocetin Cofactor |
| Volatile Screen panel | Acetone, Ethanol, Isopropanol, Methanol |

Cytogenetic Laboratory FISH Probe Panels*

***Notes:**

- Each probe in a panel can be ordered individually.
- When tracking residual disease, an appropriate subset of the panel will be determined at the laboratory's discretion.

AML Panel

FISH probes to detect: EVI1 rearrangement t(3q26;var), deletion 5q/monosomy 5, deletion 7q/monosomy 7, MLL rearrangement t(11q23;var), deletion 13q/monosomy 13, t(15;17) PML/RARA, CFBF rearrangement t(16q22;var), deletion 20q, t(8;21) AML1/ETO (and trisomy 8), t(9;22) BCR/ABL1, t(16;16) CFBF/MYH11, NUP98 rearrangement t(11p15.4;var)

AneuVysion Panel

FISH probes to detect gender and aneuploidy of chromosomes 13, 18 and 21.

B-ALL Panel

FISH probes to detect: TCF3 (E2A) rearrangement t(19p13.3;var), aneuploidy of chromosomes 4, and 10, deletion p16 (9p21), MLL rearrangement t(11q23;var), t(9;22) BCR/ABL1, t(12;21) ETV6/RUNX1, CRLF2 (Xp22.33/Y11.23) rearrangement, PBX/TCF3 t(1;19), ABL1, ABL2, and PDGFRB.

Burkitt's Lymphoma Panel

FISH probes to detect: MYC rearrangement t(8q24;var) and t(8;14) IGH@/MYC/CEP 8

CLL Panel

FISH probes to detect: Deletion 11q, Trisomy 12, Deletion 13q/Monosomy 13, t(11;14) IGH@/CCND1, Deletion TP53 (17p13.3).

Diffuse Large B-cell Lymphoma (DLBCL) Panel

FISH probes to detect: MYC rearrangement t(8q24;var), BCL2 rearrangement t(18q21;var) and BCL6 rearrangement t(3q27;var).

Reflex Testing: If POSITIVE for MYC rearrangement ONLY, add t(8;14) IGH@/MYC/CEP 8

Eosinophilia (EOS) Panel

FISH probes to detect: PDGFRA (4q12) deletion/rearrangement, PDGFRB rearrangement (5q32;var) and FGFR1 rearrangement t(8p11;var) BCR/ABL1 (t 9;22) dual fusion.

Follicular Lymphoma Panel

FISH probes to detect: BCL2 rearrangement t(18q21;var) and t(14;18)IGH@/BCL2

MDS Panel

FISH probes to detect: EVI1 rearrangement t(3q26;var), deletion 5q/monosomy 5, deletion 7q/monosomy 7, trisomy 8, deletion 13q/monosomy 13, deletion 20q.

Medulloblastoma Panel

FISH probes to detect: N-MYC amplification and IGH/MYC/CEP8 (CMYC amplification).

Multiple Myeloma Panel

FISH probes to detect: Aneuploidy of chromosomes 5, 9 and 15, MYC rearrangement t(8q24;var), Deletion 13q/Monosomy 13, IGH@ rearrangement t(14q32;var), Deletion TP53 (17p13.3).

Reflex Testing: If POSITIVE for IGH@ rearrangement, add t(11;14) IGH@/CCND1, t(4;14) IGH@/FGFR3 and t(14;16) IGH@/MAF.

Myxoid Liposarcoma

FISH probes to detect DDIT3 (CHOP) rearrangement and FUS rearrangement.

POC Common Trisomies Panel

FISH probes to detect gender and aneuploidy of chromosomes 13, 16, 18 and 21.

T-ALL Panel

FISH probes to detect: TLX3 rearrangement t(5q35;var), TCRB rearrangement (7q34;var), deletion CDKN2A (9p21), MLL rearrangement t(11q23;var), TCRAD rearrangement (14q11.2;var) and t(9;22) BCR/ABL1.

Reflex parental testing to Microarray

If a child with microarray results that are of unclear clinical significance, reflex microarray testing or FISH testing (if applicable) will be offered on the parents (if not performed previously).

Array Comparative Genomic Hybridization (aCGH), Prenatal:

Chromosomal microarray (array comparative genomic hybridization, aCGH) analysis is useful for detecting clinically significant copy number abnormalities in patients with phenotypic features suggestive of a congenital chromosome rearrangement. Microarray testing permits a whole genome survey at very high resolution and is currently recommended by the American College of Medical Genetics as a first-tier test for certain patients.

Reflex: If fetus is female, the extracted DNA will be tested for maternal cell contamination by the Molecular Diagnostics Department.

MANDATORY REFLEX TESTING

Additional Cells Counted

An additional 10 cells are counted (for a total of 30 cells) for all chromosome studies with an indication of Turner Syndrome, Short Stature, or any indication with possible mosaicism. The completion of a 30 cell study rules out 10% mosaicism with 95% confidence.

Additional Karyotype(s)

An additional karyotype will be created to represent each additional cell line identified in the chromosome study.

45,X Karyotype

Chromosome studies which identify a nonmosaic 45,X karyotype will be followed by reflex FISH testing utilizing the X and Y centromeric regions to exclude occult Y chromosome mosaicism. This supplemental testing is consistent with recent American College of Medical Genetics (ACMG) Standards and Guidelines (Wolff D, et al. Genet Med 12:52-5, 2010) and is intended to identify those Turner syndrome patients with Y chromosome material that have an increased risk for gonadoblastoma.

Abnormal or ambiguous microarray results

Abnormal or ambiguous microarray results will be confirmed by cytogenetic chromosome analysis OR fluorescence in situ hybridization (FISH) analysis as appropriate, based on specific abnormality, size and location of region identified. This supplemental testing is consistent with American College of Medical Genetics (ACMG) Standards and Guidelines (Shaffer L, et al. Genetics in Medicine 9:654-662, 2007).


Newborn fluorescence in situ hybridization (FISH) studies

Cytogenetic chromosome analysis will be completed as appropriate on newborn patients (age \leq 6 weeks) with abnormal results on interphase fluorescence in situ hybridization (FISH) testing in order to fully characterize the chromosomal abnormality identified.

Monitor previously identified chromosome abnormalities by FISH

If FISH testing is requested to monitor abnormalities previously identified by chromosome analysis, testing of the earlier diagnostic specimen will also be performed to confirm the FISH abnormality/pattern (if not performed previously).

Reference Lab Panels

| Quad Screen-Mayo QUAD | 4-marker screen includes alpha-fetoprotein (AFP), estriol (uE3), human chorionic gonadotropin (total beta-hCG: ThCG), and inhibin A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------------|------------------|----------------------|------------------|------|-----------|----|-----|-----|--------------|----|-----|------|-------------|----|-----|-------|---------------|----|-----|------|--------------|----|-----|------|----------------|----|-----|-------|---------------|----|-----|
| Electrolyte and Osmolality Panel (Stool) –Mayo EFPO | <p>Profile Information </p> <table border="1"> <thead> <tr> <th data-bbox="499 391 611 418">Test ID</th> <th data-bbox="636 391 863 418">Reporting Name</th> <th data-bbox="888 391 1163 418">Available Separately</th> <th data-bbox="1188 391 1444 418">Always Performed</th> </tr> </thead> <tbody> <tr> <td data-bbox="499 435 579 459">NA_F</td> <td data-bbox="636 435 772 459">Sodium, F</td> <td data-bbox="888 435 926 459">No</td> <td data-bbox="1188 435 1247 459">Yes</td> </tr> <tr> <td data-bbox="499 475 579 500">K_F</td> <td data-bbox="636 475 806 500">Potassium, F</td> <td data-bbox="888 475 926 500">No</td> <td data-bbox="1188 475 1247 500">Yes</td> </tr> <tr> <td data-bbox="499 516 579 540">CL_F</td> <td data-bbox="636 516 785 540">Chloride, F</td> <td data-bbox="888 516 926 540">No</td> <td data-bbox="1188 516 1247 540">Yes</td> </tr> <tr> <td data-bbox="499 557 611 581">OSMOF</td> <td data-bbox="636 557 806 581">Osmolality, F</td> <td data-bbox="888 557 926 581">No</td> <td data-bbox="1188 557 1247 581">Yes</td> </tr> <tr> <td data-bbox="499 597 579 621">MG_F</td> <td data-bbox="636 597 827 621">Magnesium, F</td> <td data-bbox="888 597 926 621">No</td> <td data-bbox="1188 597 1247 621">Yes</td> </tr> <tr> <td data-bbox="499 638 579 662">OG_F</td> <td data-bbox="636 638 848 662">Osmotic Gap, F</td> <td data-bbox="888 638 926 662">No</td> <td data-bbox="1188 638 1247 662">Yes</td> </tr> <tr> <td data-bbox="499 678 579 703">POU_F</td> <td data-bbox="636 678 827 703">Phosphorus, F</td> <td data-bbox="888 678 926 703">No</td> <td data-bbox="1188 678 1247 703">Yes</td> </tr> </tbody> </table> | Test ID | Reporting Name | Available Separately | Always Performed | NA_F | Sodium, F | No | Yes | K_F | Potassium, F | No | Yes | CL_F | Chloride, F | No | Yes | OSMOF | Osmolality, F | No | Yes | MG_F | Magnesium, F | No | Yes | OG_F | Osmotic Gap, F | No | Yes | POU_F | Phosphorus, F | No | Yes |
| Test ID | Reporting Name | Available Separately | Always Performed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA_F | Sodium, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K_F | Potassium, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL_F | Chloride, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OSMOF | Osmolality, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MG_F | Magnesium, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OG_F | Osmotic Gap, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POU_F | Phosphorus, F | No | Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |