

## Genetic Testing

### Panels

**Comprehensive Panel (DYD)** (34 markers selected from Weight Management, Nutritional Deficiencies, Cardiac Health, Methylation, and Mood Panels)

**Cardiac Health** (APOE, Factor II, Factor V, MTHFR, 9p21, eNOS, SLC01B1 \* 5 and AGT)

**Mood Profile Panel** (COMT, FUT2, CYP2R1, NADSYN1/DHCR7, GC and MTHFR)

**Nutritional Deficiencies** (GC, CYP2R1, NADSYN1/DHCR7, VDR-Bsm1, TMPRSS6, BCMO1, FUT2 and MTHFR)

**Weight Management** (FTO, MC4R, FABP2, ADRB2 AND SH2B1)

**PGx** (CYP2C9, CYP2C19, CYP2D6, CYP1A2, CYP2B6, CYP3A4, CYP3A5, APOE, Factor II, Factor V, MTHFR, COMT, DRD2, VKORC1, SLC01B1 \* 5)

### Individual Markers

APOE

COMT

MTHFR

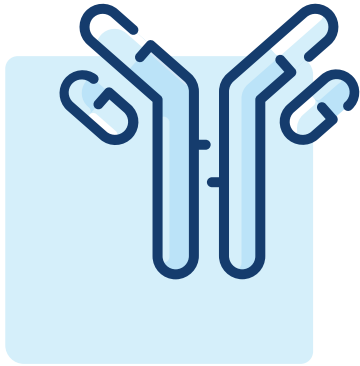
CBS

## Virology

### Panels

COVID-19 RT PCR

# HLA & Transplant



## Disease Association Panels

**Abacavir Sensitivity HLA-B\* 57:01**  
**Allopurinol sensitivity HLA-B\* 58:01**  
**Anklyosing Spondylitis HLA-B27**  
**Carbamazepine Sensitivity HLA-B\* 15:02**  
**Celiac Disease HLA-DQ2, HLA-DQ8**  
**Mold Sensitivity HLA-DR/DQ**  
**Narcolepsy HLA-DR15, HLA-DQB1\* 06:02**  
**Rheumatoid Arthritis HLA-DR1, HLA-DR4**

## Crossmatch Testing

**Flow Cytometry T and B Cell**

## Engraftment Testing (Chimerism Analysis)

**Engraftment Quantitative by STR**

**Cell Sorting CD3, CD33, CD15, CD56 and CD19**

## HLA Panels

**High Resolution HLA-A, B, C, DRB1, DQB1**

**High Resolution HLA-A, B, C, DRB1, DQB1, DPB1**

**High Resolution HLA-A, B, C, DRB1345, DQB1, DPB1**

**High Resolution HLA-A, B, C, DRB1345, DQB1, DQA1, DPB1, DPA1**

## HLA & Transplant (continued)

### HLA Panels (Continued)

**High Resolution HLA-A, B, C, DRB1**

**Intermediate Resolution HLA-A, B, DRB1**

**Intermediate Resolution HLA-A, B, C, DRB1**

**Intermediate Resolution HLA-A, B, C, DRB1, DQB1**

**Intermediate Resolution HLA-A, B, C, DRB1, DQB1, DPB1**

**Intermediate Resolution HLA-A, B, C, DRB1345, DQB1, DQA1, DPB1, DPA1**

**Intermediate Resolution HLA -A, B and High Resolution DRB1**

### Individual Locus High/Intermediate Resolution

**HLA-A**

**HLA-B**

**HLA-C**

**HLA-DPA1**

**HLA-DPB1**

**HLA-DQA1**

**HLA-DQB1**

**HLA-DRB1**

**HLA-DRB345**

### Antibody Testing

**HLA Class I Antibody Screen**

**HLA Class II Antibody Screen**

**HLA Class I Antibody Identification (Single Antigen)**

**HLA Class II Antibody Identification (Single Antigen)**

**C1Q HLA Antibody Class I and Class II**

# HLA & Transplant (continued)

## TRALI Investigation Workup

**TRALI HLA Typing**

**TRALI HLA Antibody Screening**

**TRALI HLA Antibody Identification (Single Antigen)**

## Molecular Microscope Diagnostic System (MMDx)

**Kidney**

**Heart**

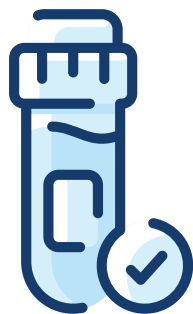
**Lung (available soon)**

## Other Test Panels

**ABO/Rh**

**KIR**

**Infectious Disease Markers (IDM)**



# General Labs

## Popular Panel Testing

**Basic Metabolic Panel - BMP w/ Total Calcium**

**Complete Blood Count, CBC w/ Plt & Differential**

**Complete Blood Count, CBC, NO Diff**

**Comprehensive Metabolic Panel (CMP)**

**Coronary Risk Panel**

**Hemoglobin A1c**

**Hepatic (Liver) Panel**

**Iron, TIBC, % Sat Iron**

**Lipid Panel**

**Lipid Panel, Fasting**

**Magnesium, Mg**

**Nutritional Panel**

**Renal (Kidney) Function Panel**

**TSH, reflex FT4**

**Upper Respiratory Panel with COVID, Molecular (Flu, Rsv, hMPV, COVID)**

**Upper Respiratory Panel, Molecular (Flu, Rsv, hMPV)**

**Urinalysis Reflex Culture and Sensitivity**

## UTI Molecular Panel

**Acinetobacter baumannii**

**Citrobacter freundii**

**Klebsiella aerogenes**

**Enterobacter cloacae**

**Enterococcus faecalis**

**Enterococcus faecium**

**Escherichia coli**

**Klebsiella oxytoca**

**Klebsiella pneumoniae**

**Morganella morganii**

**Proteus mirabilis**

**Proteus vulgaris**

**Providencia stuartii**

**Pseudomonas aeruginosa**

**Staphylococcus aureus**

**Staphylococcus saprophyticus**

**Streptococcus agalactiae**

**Fungal: Candida albicans**

## Coagulation Testing

**aPTT, Activated Thromboplastin Time**

**Cryoglobulin, qualitative w/reflex C3&C4**

**INR, Fingerstick**

**Prothrombin Time, PT/INR**

# General Labs (continued)

## Urine Chemistries

Calcium, urine  
Chloride, urine  
Creatinine, urine  
Glucose, urine  
Microalbumin, urine  
Osmolality, urine

Chloride, urine  
Potassium, urine  
Protein Total, urine  
Sodium, urine  
Urea Nitrogen, urine  
Uric Acid, urine

## Hematology

CBC, w/o differential  
CBC, w/differential,  
Platelets, auto  
Erythrocyte Sedimentation  
Rate, ESR

Hematocrit  
Hemoglobin  
Reticulocyte  
Urinalysis, only  
Urinalysis, reflex Culture & Sensitivity

## Microbiology & Molecular Testing

C Difficile Toxin AB PCR  
Comprehensive Gastrointestinal (GI) PCR Panel  
COVID, RT-PCR  
Culture, Urine Routine  
Fecal Occult Blood, IFOB  
H pylori Antigen IA (stool)  
Human metapneumovirus (hMPV)  
Influenza A & B, Molecular  
Methicillin-Resistant Staphylococcus aureus  
(MRSA) Colonization Screening Culture

Norovirus GI/GII  
Respiratory Syncytial Virus (RSV), Molecular  
Stool PCR Panel  
Streptococcus Group A, molecular  
Streptococcus Screening (Strep A & Strep C/G),  
Molecular  
Urinalysis, Dipstick + Microscopic Only, No  
Culture

# General Labs (continued)

## Immunoassay/Serology

<b>Alpha-fetoprotein, (AFP)</b>	<b>HIV 1/0/2, Antigen/Antibody (4th gen)</b>
<b>Anti-Thyropoxidase (TPO)</b>	<b>Homocysteine</b>
<b>B-Type Natriuretic Peptide, BNP</b>	<b>Parathyroid Hormone (PTH)</b>
<b>Cacinoembrionic Antigen, CEA</b>	<b>Prolactin</b>
<b>Cortisol</b>	<b>Syphilis, Trepnema Pallidum Antibody</b>
<b>Ferritin</b>	<b>Testosterone, total</b>
<b>Folate</b>	<b>Thyroid Stimulating Hormone, TSH</b>
<b>Haptoglobin</b>	<b>Thyroid Stimulating Hormone, TSH, reflex FT4</b>
<b>Hepatitis A, IgM</b>	<b>Thyroxine, Free, FT4</b>
<b>Hepatitis A, total</b>	<b>Thyroxine, total (T4 total)</b>
<b>Hepatitis B, core, IgM</b>	<b>Triiodothyronine, Free, FT3</b>
<b>Hepatitis B, core, total</b>	<b>Triiodothyronine, Total, TT3</b>
<b>Hepatitis B, surface, IgM</b>	<b>Troponin I, high sensitivity, Quant.</b>
<b>Hepatitis B, surface, total</b>	<b>Vitamin B12</b>
<b>Hepatitis B, surface Antigen</b>	<b>Vitamin D, 25 OH</b>
<b>Hepatitis B, surface Antigen, confirmation</b>	
<b>Hepatitis C Antibody, HCV</b>	

## Therapeutic Drug Levels

<b>Carbamazepine</b>	<b>Phenytoin</b>
<b>Digoxin, total</b>	<b>Lithium</b>
<b>Keppra (Levetiracetam)</b>	<b>Valproic Acid level</b>
<b>Lamotrigen, Lamictal</b>	<b>Vancomycin level</b>
<b>Phenobarbital</b>	

# General Labs (continued)

## Chemistry Testing

<b>Albumin</b>	<b>Glucose, serum</b>
<b>Alkaline Phosphatase</b>	<b>Glucose, urine</b>
<b>Alpha Fetoprotein (AFP)</b>	<b>Glycated Hemoglobin, Hgb A1c</b>
<b>ALT/SGPT</b>	<b>Immunoglobulin IgA</b>
<b>Ammonia</b>	<b>Immunoglobulin IgM</b>
<b>Amylase</b>	<b>Immunoglobulin IgG</b>
<b>Apolipoprotein A-1</b>	<b>Iron, serum</b>
<b>Apolipoprotein B</b>	<b>Iron Binding</b>
<b>AST/SGOT</b>	<b>Lactate Dehydrogenase (LD/LDH)</b>
<b>Bilirubin, Direct</b>	<b>Lipase</b>
<b>Bilirubin, Total</b>	<b>Magnesium</b>
<b>Blood Urea Nitrogen (BUN)</b>	<b>Microalbumin, urine</b>
<b>Calcium, ionized</b>	<b>Osmolality, serum</b>
<b>Calcium, total</b>	<b>Osmolality, urine</b>
<b>Calcium, Urine</b>	<b>Phosphorus, Inorganic</b>
<b>Carbon Dioxide, CO2</b>	<b>Potassium, serum</b>
<b>Chloride (Cl), serum</b>	<b>Potassium, urine</b>
<b>Chloride, urine</b>	<b>Prealbumin</b>
<b>Cholesterol, Total</b>	<b>Procalcitonin, BRAHMS PCT</b>
<b>Cholesterol HDL, direct</b>	<b>Prostate Specific Antigen, PSA</b>
<b>Complement, C3</b>	<b>Protein Total, serum</b>
<b>Complement, C4</b>	<b>Protein Total, urine</b>
<b>C-Reactive Protein (CRP)</b>	<b>Rhumatoid Factor, FR, quantitative</b>
<b>C-Reactive Protein, high sensitivity</b>	<b>Sodium, serum</b>
<b>Creatine Kinase (CK/CPK), total</b>	<b>Sodium, urine</b>
<b>Creatinine, serum</b>	<b>Transferrin</b>
<b>Creatinine, urine</b>	<b>Urea Nitrogen, serum</b>
<b>Cryoglobulin, qualitative</b>	<b>Urea Nitrogen, urine</b>
<b>Ferritin</b>	<b>Uric Acid, serum</b>
<b>Folate</b>	<b>Uric Acid, urine</b>
<b>Gamma GT (GGT)</b>	



# Toxicology

## Natural and Semi-Synthetic Opioids

**Codeine**

**Morphine**

**Hydrocodone**

**Norhydrocodone**

**Hydromorphone**

**Oxycodone**

**Noroxycodone**

**Oxymorphone**

**Buprenorphine & Metabolite:  
Norbuprenorphin**

## Synthetic Opioids

**Fentanyl & Metabolite: Norfentanyl**

**Methadone & Metabolite: EDDP**

**Tramadol**

**Tapentadol**

**Normeperidine**

## Benzodiazepines

**Alpha-Hydroxyalprazolam (Alprazolam Metabolite) 7-Amino-Clonazepam  
(Clonazepam Metabolite) Lorazepam**

**Nordiazepam**

**Temazepam**

**Oxazepam**

**Diazepam & Metabolites: Nordiazepam, Temazepam, Oxazepam**

# Toxicology (continued)

## Illicit Drugs

**6-MAM (Heroin Metabolite)**  
**Benzoylcegonine (Cocaine Metabolite)**  
**cTHC (Marijuana Metabolite)**  
**MDMA (Ecstasy)**  
**Methamphetamine**  
**Mitragynine (Kratom)**  
**Phencyclidine (PCP)**

## Alcohol

**Ethyl Glucuronide**  
**Ethyl Sulfate**

## Barbituates

**Butalbital**  
**Phenobarbital**  
**Secobarbital**

## Other Substances

**Dextromethorphan**  
**Gabapentin**  
**Ketamine**  
**Naloxone**  
**Naltrexone**  
**Zolpidem**

## Stimulants

**Amphetamine**  
**Methylphenidate**  
**Muscle Relaxants**  
**Carisoprodol**  
**Meprobamate**

## Nantiomeric Testing

**Amphetamine & Methamphetamine  
d/l Isomer Testing**

## Validity Testing

**Creatinine**  
**Oxidant**  
**pH**  
**Specific Gravity**