

## **ALLOWABLE BENEFITS LABORATORY PROCEDURES**

Newborn Screening Benefits reimburses enrolled laboratories for rendering the listed services at Medicaid reimbursement rates or the established rates outlined by contract.

Any laboratory service over \$400.00 or not included in these lists must have approval from NBS Benefits prior to rendering services or billing.

### **Metabolic Disorders**

#### **Laboratory Test**

- C16 and BCAA cell probes
- C16 and C18:1 cell probes
- Carnitine Combination Analysis (Acylcarnitines Profile and Total Carnitine)
- Dried Blood Spot Carnitine Levels
- Enzyme assay RBC arginase
- Enzyme – GALT – quantitative
- Enzyme – MSUD - BCKD
- Enzyme – skin biopsy – MCAD
- Enzyme – 3OH-3CH3 glutaryl CoA lyase
- Enzyme – skin biopsy – methylmalonyl CoA mutase
- Enzyme – skin biopsy – MCC
- Enzyme – propionyl CoA caboxylase
- Enzyme – skin biopsy – glutaryl CoA dehydrogenase
- Enzyme – skin biopsy – long chain hydroxy acyl-CoA thiolase
- Enzyme – skin biopsy – long chain 2-enoyl-CoA hydratase
- Enzyme – skin biopsy – VLCAD
- Enzyme – skin biopsy – LCHAD
- Enzyme – WBC – holocarboxylase synthetase
- Enzyme – skin biopsy – propionate incorporation studies
- Enzyme – skin biopsy – propionate incorporation studies and complementation analysis
- Enzyme – skin biopsy – BKT
- Enzyme – liver biopsy – argininosuccinate synthetase assay
- Enzyme – biotinidase
- Enzyme – fumarylacetoactase
- Glutaric acid

## Metabolic Disorders (continued)

### Laboratory Test

- Mutations Panel or Sequencing:
  - DNA – IVD and SBCAD
  - DNA – MCAD
  - DNA – fumaryl acetoacetate hydrolase (TYR I)
  - DNA – phenylalanine hydroxylase (PKU)
  - DNA – GALT
  - DNA – LCHAD
  - DNA – MSUD
  - DNA- VLCAD
  - DNA-SMA
  - DNA XALD
  - DNA MPS 1
  - DNA MPS 2
  - DNA Pompe
  - DNA GAMT
- Plasma acylcarnitines
- Plasma ammonia
- Plasma carnitine
- Plasma Carnitine Free and Total
- Plasma Dried Blood Spot Acylcarnitines
- Plasma galactose
- Plasma Homocysteine and Methionine
- Plasma Total Homocysteine
- Plasma lactate/lactic acid
- Plasma methionine
- Plasma phenylalanine
- Plasma quantitative amino acids
- Plasma tyrosine
- GALT enzyme testing (Quantitative RBC Gal-1-P Uridyl Transferase)
- Urine homocysteine
- Urine quantitative organic acids
- Urine succinylacetone
- Urine acylglycines
- Urine amino acids
- Urine galactitol
- WBC carnitine uptake
- Serum BIOTINIDASE (enzyme activity)
- Urine orotic acid
- Plasma methylmalonic acid
- Urine for ketones
- Liver function test
- Blood sugar
- Plasma insulin
- Urine succinylacetone
- Very Long Chain Fatty Acids
- plasma GAA (guanidinoacetate) level
- urine GAA (guanidinoacetate) level
- plasma creatine
- urine creatinine

- Creatine Kinase (CK) Plasma
- Urine GAG quantitative analysis
- Serum alpha-L-iduronidase enzyme assay in leukocyte/leukocyte acid alpha- glucosidase enzyme assay
- Hex4
- CRIM status
- Phenybutyrate Metabolite
- CMP
- Cystatin C
- Prealbumin
- Vitamin D 25OH (for deficiency screening)

### **Endocrine Disorders**

#### **Laboratory Test**

- 17-OH progesterone
- ACTH
- ACTH stimulation test
- Electrolytes
- Free T4
- Pregnanetriol
- T4
- TSH
- T3
- Thyroid peroxidase antibodies (antiTPO Abs)
- Thyroglobulin antibodies
- CMP
- BMP
- CAH

### **Hemoglobin Disorders**

#### **Laboratory Test**

- CBC
- Hemoglobin electrophoresis
- Iron
- Liver function
- CBC with differential
- Serum iron, total iron binding capacity (TIBC)
- Reticulocyte count
- ALT, AST, GGT (specific LFTs)
- Serum total and direct bilirubin
- PT/PTT/INR (for transfusions)
- Blood type and Rh

### **Cystic Fibrosis**

#### **Laboratory Test**

- CFTR sequencing analysis
- Sweat test
- Pulmonary Function Testing
- Fecal elastase
- Amylase and lipase
- Vitamins D, A, K, and E