



SCREENING TESTS FOR DISORDERS OF FATTY ACID OXIDATION

SHIP TO:

William J. Rhead, M.D., Ph.D.
SAMPLE MAILING ADDRESS:
CHW WAREHOUSE
6740 W. Washington St.
West Allis, WI 53214
(414)-266-2979 (office)
(414)-266-2506 (lab)
email: wrhead@mcw.edu

PATIENT AND BILLING INFORMATION

For cultures sent by mail to our laboratory, we greatly prefer to bill the referring hospital or laboratory for these tests. We suggest having the Department of Pathology in your hospital send the sample to us. Preferably, the attached billing information and authorization should be included with fibroblast cultures and clinical and biochemical information.

Patient Information:

Date: _____ DIAGNOSIS: _____
Patient Name: _____
Date of Birth: MONTH _____ DAY _____ YEAR _____ **Male or Female** (circle one)
Your Hospital #: _____
Date of Biopsy: MONTH _____ DAY _____ YEAR _____

Referring Physician Information:

Name: _____
Address: _____
City/State/Zip _____
Phone/Fax: _____

Billing Information:

Institution Address: _____

Phone Number: _____
Fax Number: _____

Billing Authorization

Signature: _____

Genetics Center
Children's Hospital of Wisconsin
9000 W Wisconsin Avenue, MS #716
Milwaukee, WI 53226



SCREENING TESTS (ICD-10: E78.9) FOR DISORDERS OF FATTY ACID OXIDATION (ICD10-10: E71.31)

SAMPLE MAILING ADDRESS:

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Monday through Thursday -

Ship two T-25 (25cm²) flasks of confluent fibroblasts obtained from skin biopsy and routine fibroblast tissue culture to the above address by overnight express accompanied by clinical and biochemical data and the billing information sheet.

³H-Acyl-carnitine profiling by radio-HPLC in intact cultured fibroblast monolayers to screen for all known disorders of β -oxidation, excluding riboflavin-responsive variants and all methylmalonic acidemias: **\$998.25** (CPT codes 82017+88233+82542), with physician interpretation (CPT code 80500).

Prenatal Diagnosis

Prenatal diagnosis on amniocytes is possible for virtually all fatty acid oxidation disorders. However, before we will accept amniocyte samples from a referring laboratory, please contact William J. Rhead, MD, PhD directly at 414-266-2906. In addition to 2 confluent T-25 flasks of amniocytes from the proband fetus, we require amniocytes from 2 anonymous control pregnancies, 2 T-25s each. Further details can be obtained directly from Dr. Rhead.

³H-Acyl-carnitine profiling by radio-HPLC in amniocytes to screen for all known disorders of β -oxidation, excluding riboflavin-responsive variants and all methylmalonic acidemias: **\$998.50** (CPT codes 88235+82542), with physician interpretation (CPT code 80500).

These analyses are non-experimental, non-investigational and not in conflict with medical standards. This laboratory and Children's Hospital of Wisconsin has been accredited by the Joint Commission on Accreditation of Healthcare Organizations, the College of American Pathologists, CLIA (52D0661957), and HCFA (license number 16-0058). Dr. Rhead is board-certified in Clinical Biochemical Genetics by the American Board of Medical Genetics.

EXPLANATION OF CPT CODES:

- 88233 Skin fibroblast culture
- 82492 Chromatography, quantitative, column (eg, gas liquid or HPLC); multiple analytes, single stationary and mobile phase
- 88235 Tissue culture for non-neoplastic disorders; amniotic fluid or chorionic villus cells
- 80500 Physician interpretation
- 88372 Protein analysis of tissue by Western Blot, with interpretation and report, one band

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Certification:

American Board of Pediatrics - 1981
American Board of Medical Genetics
Clinical Genetics - 1982
Clinical Biochemical Genetics – 1993, 2003, 2005, 2007, 2009

LABORATORY NAME: _____ Fatty Acid Oxidation _____
LAP NUMBER .: _____ 1780401 _____
LAST JCAHO ACCREDITATION DATE: _____ June 2016 _____
CLIA IDENTIFICATION NO.: _____ 52D0661957, expires 01/17 _____
MEDICARE NO.: _____ 160058 _____
MEDI-CAL PROVIDER NO.: _____ XYP173950 _____
STATE LICENSE NO.: _____ Wisconsin 42007 _____
FEDERAL TAX ID NO.: _____ 39-0806261N _____
HCFA LICENSE NO.: _____ 16-0058 _____
UPIN #: _____ A01404 _____

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Dear Colleagues:

January 2017

This letter will update you concerning the diagnostic services available in the Fatty Acid Oxidation Disorder Laboratory at the Medical College of Wisconsin and Children's Hospital of Wisconsin. For almost 18 years, we have offered these services to geneticists, endocrinologists, gastroenterologists and neurologists around the country. Using radioHPLC, we can now define the characteristic diagnostic profiles of accumulated fatty acyl-carnitines in cultured fibroblasts from affected patients and can also detect isovaleric acidemia, all subtypes of propionic and methylmalonic acidemias and β -ketothiolase deficiency. We have also performed many successful prenatal diagnoses for these disorders in cultured amniocytes. The unique panel of diagnostic tests we offer is summarized below.

My group also collaborates closely with other major North American, European, Japanese and Australasian academic groups concerned with the diagnosis, treatment, and investigation of fatty acid oxidation disorders. I am board certified in Clinical Biochemical Genetics and Clinical Genetics and the laboratory is accredited by CAP, JCAHO and registered under CLIA. Please call, write, e-mail or fax me if you want additional testing information or wish to discuss individual patients.

Sincerely yours,

William J. Rhead, MD PhD
 Professor of Pediatrics
 E-mail: wrhead@mcw.edu
 (414) 266-2906; FAX (414) 266-1616

DIAGNOSTIC TESTS:

Enzyme Deficiency: (Abbreviation)	Diagnostic RadioHPLC Profile:
Acyl-CoA Dehydrogenases (ACD): Short-Chain (SCAD); 3-Hydroxy Short Chain (SCHAD) Medium-Chain (MCAD) Very-Long-Chain (VLCAD); Long-Chain (LCAD) 3-Hydroxy-Long-Chain (LCHAD)	X X X X
Glutaric Acidemia, Type II (GA-II): Electron-Transfer Flavoprotein (ETF) Electron-Transfer Flavoprotein Dehydrogenase (ETF-DH; ETF-QO)	X X
Trifunctional Protein (TFP)	X
Carnitine Palmitoyl Transferases, I and II (CPT-I and -II)	X; X
Carnitine Acyl-Carnitine Translocase (CACT)	X
Carnitine Uptake Defect (CUD); Systemic Carnitine Deficiency	X
Methylmalonic and Propionic Acidemias, ALL subtypes	X
β -Ketothiolase	X
Isovaleryl-CoA-dehydrogenase (IVA)	X

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