

**Table 2: Fatty Acid Disorders**

Overall Result	Disorder	Screening Result	Analyte(s)	Analyte Result	Screening Result Note
Normal		Normal			
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Borderline Low or Normal	Possible Fatty Acid Disorder. C0 Slightly Low. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Low Normal	Possible Fatty Acid Disorder. C0 Low; C3+C16 Normal. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Borderline Low	Possible Fatty Acid Disorder. C0 Slightly Low; C3+C16 Low. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Low Low or Normal	Possible CUD. C0 Low for birthweight less than 1000 grams. Place baby on carnitine immediately. Recommend immediate telephone consultation with a pediatric metabolic specialist. Repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Low Low	Possible CUD. C0 and C3+C16 Low for birthweight less than 1000 grams. Place baby on carnitine immediately. Recommend immediate telephone consultation with a pediatric metabolic specialist. Repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Low Low or Normal	Possible CUD. C0 Low. Recommend blood sugar, plasma (free and total) carnitine and maternal plasma (free and total) carnitine within 7 days and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Fatty Acid Disorders	Abnormal	C0 C3+C16	Low Low	Possible CUD. C0 and C3+C16 Low. Recommend blood sugar, plasma (free and total) carnitine and maternal plasma (free and total) carnitine within 7 days and immediate telephone consultation with a pediatric metabolic specialist.

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Overall Result	Disorder	Screening Result	Analyte(s)	Analyte Result	Screening Result Note
Abnormal	Fatty Acid Disorders	Abnormal	C0/(C16 +C18) C0	Elevated Elevated, Borderline, or Normal	Possible CPT1. C0/(C16+C18) Elevated. Recommend plasma carnitine and plasma acylcarnitine profile within 7 days and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Fatty Acid Disorders	Abnormal	C10:2	Elevated	Possible DE-RED. C10:2 Elevated. Recommend plasma acylcarnitine profile, plasma quantitative amino acids, plasma carnitine, urine acylglycines, urine organic acids and telephone consultation with a pediatric metabolic specialist within 48 hours.
Abnormal	Fatty Acid Disorders	Abnormal	C14:1 C14 C14:1/C2	Borderline Elevated or Normal Elevated or Normal	Possible VLCAD. C14:1 Slightly Elevated. Recommend plasma acylcarnitine profile and plasma (free and total) carnitine within 24 hours and immediate telephone consultation with a pediatric metabolic specialist. DNA report to follow.
Abnormal	Fatty Acid Disorders	Abnormal	C14:1 C14 C14:1/C2	Elevated Elevated or Normal Elevated or Normal	Possible VLCAD. C14:1 Elevated. Recommend plasma acylcarnitine profile and plasma (free and total) carnitine within 24 hours and immediate telephone consultation with a pediatric metabolic specialist. DNA report to follow.
Abnormal	Fatty Acid Disorders	Abnormal	C16 C18:1 C14 (C16+C18:1)/C2	Borderline Normal Normal Normal	Possible Fatty Acid Disorder. C16 Slightly Elevated; C18:1, C14, and (C16+C18:1)/C2 Normal. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C16 C18:1 C14 (C16+C18:1)/C2	Borderline Elevated or Normal Elevated or Normal Elevated or Normal	Possible CACT or CPTII. C16 Slightly Elevated. Recommend plasma carnitine, plasma acylcarnitine, and urine organic acids within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Fatty Acid Disorders	Abnormal	C16 C18:1 C14 (C16+C18:1)/C2	Elevated Elevated or Normal Elevated or Normal Elevated or Normal	Possible CACT or CPTII. C16 Elevated. Recommend plasma carnitine, plasma acylcarnitine, and urine organic acids within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.

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Overall Result	Disorder	Screening Result	Analyte(s)	Analyte Result	Screening Result Note
Abnormal	Fatty Acid Disorders	Abnormal	C16-OH C16:1-OH C18-OH C18:1-OH C18:2-OH	Elevated Elevated or Normal Elevated or Normal Elevated or Normal Elevated or Normal	Possible LCHAD or TFP. C16-OH, C16:1-OH, C18-OH, C18:1-OH, and C18:2-OH analyzed to determine result. Recommend plasma acylcarnitine profile, urine organic acids and plasma carnitine profile (free and total carnitine) within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Fatty Acid Disorders	Abnormal	C4 C4/C2	Borderline Elevated	Possible Fatty Acid Disorder. C4 Slightly Elevated; C4/C2 Elevated. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C4 C4/C2	Elevated Normal	Possible Fatty Acid Disorder. C4 Elevated; C4/C2 Normal. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	Abnormal	C4 C4/C2	Elevated Elevated	Possible SCAD or IBG. C4 and C4/C2 Elevated. Recommend plasma acylcarnitine profile, urine organic acids, urine acylglycines and telephone consultation with a pediatric metabolic specialist within 48 hours.
Abnormal	Fatty Acid Disorders	Abnormal	C4 C5	Elevated or Borderline Elevated or Borderline	Possible GA2. C4 and C5 analyzed to determine result. Recommend plasma acylcarnitine profile, urine organic acids, and urine acylglycine analysis within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Fatty Acid Disorders	Abnormal	C8 C6 C10:1 C10 C8/C2	Borderline Elevated or Normal Elevated or Normal Elevated or Normal Elevated or Normal	Possible MCAD or MCAT. C8 Slightly Elevated. Recommend plasma acylcarnitine profile, plasma carnitine levels, urine acylglycines, and urine organic acids within 24 hours and immediate telephone consultation with a pediatric metabolic specialist. DNA report to follow.
Abnormal	Fatty Acid Disorders	Abnormal	C8 C6 C10:1 C10 C8/C2	Elevated Elevated or Normal Elevated or Normal Elevated or Normal Elevated or Normal	Possible MCAD or MCAT. C8 Elevated. Recommend plasma acylcarnitine profile, plasma carnitine levels, urine acylglycines, and urine organic acids within 24 hours and immediate telephone consultation with a pediatric metabolic specialist. DNA report to follow.

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Overall Result	Disorder	Screening Result	Analyte(s)	Analyte Result	Screening Result Note
Abnormal	Fatty Acid Disorders	Non-specific			Elevation(s) in a non-diagnostic pattern. Repeat the newborn screen within 7 days.
Abnormal	Fatty Acid Disorders	TPN			Possible TPN. Repeat the newborn screen when TPN is discontinued.
Normal	Fatty Acid Disorders	Revised Result			free text
Abnormal	Fatty Acid Disorders	Revised Result			free text
Unsatisfactory	Fatty Acid Disorders	Revised Result			free text