

**Table 2: Fatty Acid Disorders**

Overall Result	Disorder	Screening Result	Screening Result Note
Normal		Normal	
Abnormal	Fatty Acid Disorders	Abnormal	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	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	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	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	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	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	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.
Abnormal	Fatty Acid Disorders	Abnormal	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	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	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	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	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	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	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	Screening Result Note
Abnormal	Fatty Acid Disorders	Abnormal	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	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	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	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	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	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	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.
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