Additional File 1:

Table S1. Laboratory testing

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| --- | --- | --- | --- | --- | --- |
| **Age** | **SARA score** | **Riboflavin dose****(mg/kg/day)**  | **Plasma riboflavin** **(ref 6.2 - 39.0 nmol/L)****(#ref 5.0 - 50.0 nmol/L)** | **Acylcarnitine profile (umol/L) (ref)** | **Urine organic acids****(mmol/mol creatinine) (ref)** |
| 9 | 9.5 | 4.5 | 11.9 | Free carnitine: 19.9  (20-70)C2: 1.93 (2.7-14) | Pimelic: 10 (0-5)Suberic: 11 (0-8)Azelaic: 7 (0-10) |
| 10  | 8.0 | 7.4 | 11.8 | Normal | Normal |
| 11  | np | 10.5 | 11.8 | Normal | 3-OH-3-Methylglutaric: 0  (1-13)Adipic: 0 (1-12) |
| 12  | 5.0 | 13 | 27.5 | C16:1: 0.06 (<0.04) | Isocitric: 18 (22-343)Citric: 52 (76 – 1309) |
| 13  |  8.0\* | 10.5 | 7.6\* | Normal | Normal |
| 14 | 4.5 | 10.5 | 15.0# | Normal | Normal |
| 15 | 3.0 | 10.5 | 9.0# | np | np |

\* following a period of noncompliance; np, not performed; ref, reference values.