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| **Supplementary Table S4.** Effects of intervention on the change in body composition between 6 and 12 weeks of ARTfor patients who had body composition assessed by all three methods (ADP, BIA and D2O) |
|  | **Change (95% CI)a** | **Difference between arms (95% CI)b** | ***P*** | **Adjusted difference between arms (95% CI)c** | ***P*** |
|  | LNS | LNS-VM |  |  |  |  |
|  | N | Mean (95% CI) | N | Mean (95% CI) |  |  |  |  |
| Fat mass (kg) |  |  |  |  |  |  |  |  |
| Total by D2O | 18 | 0.5 (-1.4, 2.3) | 18 | 0.5 (-1.5, 2.4) | -0.5 (-3.2, 2.2) | 0.72 | 0.3 (-2.6, 3.1) | 0.85 |
| Total by ADP | 18 | 0.7 (-1.5, 2.9) | 18 | 0.8 (-0.1, 1.7) | 0.5 (-1.9, 2.9) | 0.68 | 0.9 (-1.8, 3.6) | 0.51 |
| Total by BIA | 18 | -0.3 (-1.1, 0.5) | 18 | 0.1 (-0.9, 1.2) | 0.6 (-0.7, 1.9) | 0.36 | 1.1 (-0.3, 2.6) | 0.13 |
|  Truncal  | 18 | -0.2 (-0.7, 0.4) | 18 | -0.04 (-0.8, 0.7) | 0.2 (-0.7, 1.4) | 0.60 | 0.5 (-0.5, 1.5) | 0.28 |
|  Limb  | 18 | -0.04 (-0.3, 0.2) | 18 | 0.2 (-0.1, 0.5) | 0.3 (-0.2, 0.7) | 0.20 | 0.5 (-0.0002, 1.0) | 0.05 |
|  |  |  |  |  |  |  |  |  |
| Fat-free mass (kg) |  |  |  |  |  |  |  |  |
| Total by D2O | 18 | 0.3 (-1.8, 2.4) | 18 | 0.9 (-1.1, 2.9) | 1.2 (-1.8, 4.1) | 0.42 | 0.8 (-2.6, 4.3) | 0.62 |
| Total by ADP | 18 | 0.1 (-1.6, 1.7) | 18 | 0.5 (-0.3, 1.3) | 0.1 (-1.7, 1.9) | 0.88 | 0.1 (-2.2, 2.3) | 0.94 |
| Total by BIA | 18 | 1.6 (-0.6, 3.8) | 18 | 1.3 (0.1, 2.6) | -0.4 (-2.9, 2.2) | 0.76 | -0.4 (-2.9, 2.1) | 0.77 |
|  Truncal  | 18 | 0.8 (-0.4, 1.9) | 18 | 0.8 (0.1, 1.4) | -0.1 (-1.5, 1.3) | 0.92 | -0.1 (-1.5, 1.3) | 0.90 |
|  Limb  | 18 | 0.7 (-0.2, 1.6) | 18 | 0.5 (-0.04, 1.0) | -0.2 (-1.3, 0.9) | 0.69 | -0.2 (-1.2, 0.9) | 0.76 |
| ART, antiretroviral therapy; ADP, air displacement plethysmography; BIA, bioelectrical impedance; D2O, deuterium dilution method; LNS, Lipid nutritional supplement; LNS-VM, Lipid nutritional supplement with vitamins and mineralsa Change between 6 and 12 weeks of ART b Difference between change over time, adjusted for age and sexc Difference between change over time, adjusted for age, sex, baseline CD4, baseline body mass index and socioeconomic status |