**Supplement 3 - Table A.** Spearman rs correlation coefficients, percentages of subjects classified into the same and opposite third of intake, and weighted kappa (Kw) in 96 adults living in Scotland using energy-adjusted nutrient intakes (analysis separated by sex).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nutrient** | **Women (n=56)** | | | | | | **Men (n=40)** | | | | | |
| **Spearman Correlation** | | | **Percentage classified in** | | **Kw** | **Spearman Correlation** | | | **Percentage classified in** | | **Kw** |
| **r**s | **95% CI** | **p** | **Same third** | **Opposite third** | **r**s | **95% CI** | **p** | **Same third** | **Opposite third** |
| Energy (kJ) | 0.29 | 0.03, 0.51 | 0.031 | 42.9 | 14.3 | 0.19 | 0.16 | -0.16, 0.45 | 0.333 | 37.5 | 17.5 | 0.09 |
| Fat (g) | 0.41 | 0.17, 0.61 | 0.002 | 57.1 | 14.3 | 0.35 | 0.58 | 0.33, 0.75 | <0.001 | 40.0 | 5.0 | 0.26 |
| % E from Fat | 0.52 | 0.30, 0.69 | <0.001 | 57.1 | 7.1 | 0.43 | 0.54 | 0.27, 0.73 | <0.001 | 47.5 | 7.5 | 0.32 |
| SFA (g) | 0.54 | 0.32, 0.70 | <0.001 | 51.8 | 5.4 | 0.39 | 0.52 | 0.25, 0.72 | 0.001 | 60.0 | 10.0 | 0.43 |
| % E from SFA | 0.56 | 0.35, 0.72 | <0.001 | 44.6 | 8.9 | 0.27 | 0.54 | 0.27, 0.73 | <0.001 | 50.0 | 5.0 | 0.37 |
| PUFA (g) | 0.07 | -0.19, 0.33 | 0.597 | 33.9 | 19.6 | 0.03 | 0.56 | 0.31, 0.74 | <0.001 | 57.5 | 7.5 | 0.43 |
| MUFA (g) | 0.33 | 0.08, 0.55 | 0.012 | 41.1 | 12.5 | 0.19 | 0.52 | 0.24, 0.71 | 0.001 | 55.0 | 5.0 | 0.43 |
| Protein (g) | 0.52 | 0.30, 0.69 | <0.001 | 51.8 | 12.5 | 0.31 | 0.41 | 0.12, 0.64 | 0.008 | 35.0 | 10.0 | 0.15 |
| % E from Protein | 0.52 | 0.30, 0.69 | <0.001 | 55.4 | 8.9 | 0.39 | 0.55 | 0.29, 0.74 | <0.001 | 50.0 | 10.0 | 0.32 |
| CHO (g) | 0.65 | 0.47, 0.78 | <0.001 | 51.8 | 1.8 | 0.43 | 0.73 | 0.54, 0.85 | <0.001 | 60.0 | 5.0 | 0.49 |
| % E from CHO | 0.74 | 0.59, 0.84 | <0.001 | 66.1 | 1.8 | 0.60 | 0.66 | 0.44, 0.81 | <0.001 | 65.0 | 5.0 | 0.54 |
| Sugars (g) | 0.64 | 0.45, 0.77 | <0.001 | 48.2 | 5.4 | 0.35 | 0.62 | 0.39, 0.78 | <0.001 | 60.0 | 5.0 | 0.49 |
| Starch (g) | 0.58 | 0.37, 0.73 | <0.001 | 60.7 | 0 | 0.56 | 0.56 | 0.30, 0.74 | <0.001 | 47.5 | 7.5 | 0.32 |
| NSP (g) | 0.60 | 0.40, 0.74 | <0.001 | 62.5 | 5.4 | 0.52 | 0.64 | 0.42, 0.80 | <0.001 | 62.5 | 7.5 | 0.49 |
| Alcohol (g) | 0.73 | 0.57, 0.83 | <0.001 | 64.3 | 3.6 | 0.56 | 0.52 | 0.24, 0.71 | 0.001 | 60.0 | 10.0 | 0.43 |
| Retinol (µg) | 0.11 | -0.16, 0.36 | 0.421 | 44.6 | 19.6 | 0.15 | 0.30 | -0.02, 0.56 | 0.062 | 55.0 | 10.0 | 0.37 |
| β-carotene (µg) | 0.42 | 0.18, 0.61 | 0.001 | 46.4 | 10.7 | 0.27 | 0.50 | 0.22, 0.70 | 0.001 | 50.0 | 10.0 | 0.32 |
| Vit D (µg) | 0.23 | -0.03, 0.47 | 0.082 | 41.1 | 16.1 | 0.15 | 0.34 | 0.04, 0.59 | 0.030 | 42.5 | 7.5 | 0.26 |
| Vit E (mg) | 0.24 | -0.03, 0.47 | 0.081 | 42.9 | 10.7 | 0.23 | 0.43 | 0.14, 0.66 | 0.005 | 55.0 | 10.0 | 0.37 |
| Thiamin (mg) | 0.47 | 0.23, 0.65 | <0.001 | 60.7 | 17.9 | 0.35 | 0.03 | -0.28, 0.34 | 0.833 | 37.5 | 22.5 | 0.03 |
| Riboflavin (mg) | 0.67 | 0.50, 0.79 | <0.001 | 50.0 | 3.6 | 0.39 | 0.56 | 0.30, 0.74 | <0.001 | 47.5 | 7.5 | 0.32 |
| Vit B6 (mg) | 0.53 | 0.32, 0.70 | <0.001 | 50.0 | 10.7 | 0.31 | 0.73 | 0.54, 0.85 | <0.001 | 70.0 | 5.0 | 0.60 |
| Vit B12 (µg) | 0.49 | 0.26, 0.67 | <0.001 | 53.6 | 7.1 | 0.39 | 0.41 | 0.12, 0.64 | 0.008 | 32.5 | 2.5 | 0.20 |
| Vit C (mg) | 0.48 | 0.25, 0.66 | <0.001 | 46.4 | 7.1 | 0.31 | 0.70 | 0.50, 0.83 | <0.001 | 45.0 | 0 | 0.37 |
| Folate (µg) | 0.51 | 0.29, 0.68 | <0.001 | 57.1 | 10.7 | 0.39 | 0.50 | 0.23, 0.70 | 0.001 | 52.5 | 12.5 | 0.32 |
| Niacin Equivalents (mg) | 0.62 | 0.43, 0.76 | <0.001 | 58.9 | 8.9 | 0.43 | 0.38 | 0.08, 0.62 | 0.015 | 27.5 | 7.5 | 0.09 |
| Iron (mg) | 0.45 | 0.21, 0.64 | <0.001 | 44.6 | 8.9 | 0.27 | 0.43 | 0.14, 0.65 | 0.006 | 40.0 | 10.0 | 0.20 |
| Calcium (mg) | 0.39 | 0.14, 0.59 | 0.003 | 46.4 | 14.3 | 0.23 | 0.30 | -0.02, 0.56 | 0.064 | 42.5 | 12.5 | 0.20 |
| Magnesium (mg) | 0.69 | 0.52, 0.80 | <0.001 | 57.1 | 3.6 | 0.48 | 0.72 | 0.52, 0.84 | <0.001 | 60.0 | 5.0 | 0.49 |
| Potassium (mg) | 0.62 | 0.43, 0.76 | <0.001 | 55.4 | 5.4 | 0.43 | 0.61 | 0.36, 0.77 | <0.001 | 55.0 | 5.0 | 0.43 |
| Zinc (mg) | 0.54 | 0.33, 0.71 | <0.001 | 44.6 | 5.4 | 0.31 | 0.35 | 0.04, 0.59 | 0.029 | 37.5 | 12.5 | 0.15 |

SFA – Saturated fatty acids; PUFA – Polyunsaturated fatty acids; MUFA – monounsaturated fatty acids; NSP – non-starch polysaccharides; CHO – Carbohydrates. Values of weighted kappa greater than 0.60 indicate good agreement, between 0.41–0.60 moderate agreement, 0.21–0.40 fair agreement, and less than or equal to 0.20 poor agreement ([19](#_ENREF_19)).

**Suppement 3 - Table B.** Bland Altman calculations of mean difference between the FFQ and diary and limits of agreement for energy, percent-energy from macronutrients and energy-adjusted nutrient intakes (analysis separated by sex).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nutrient** | **Women (n=56)** | | | | **Men (n=40)** | | | |
| **Mean difference between FFQ and diary** | **SD** | **95% limits of agreement** | | **Mean difference between FFQ and diary** | **SD** | **95% limits of agreement** | |
| **Upper limit** | **Lower limit** | **Upper limit** | **Lower limit** |
| Energy (kJ) | 2975.6 | 2697.2 | 8262.1 | -2310.9 | 3045.6 | 3437.4 | 9782.9 | -3691.7 |
| Fat (g) | 25.0 | 10.2 | 45.0 | 5.0 | 30.1 | 12.1 | 53.8 | 6.4 |
| % energy from fat | -0.54 | 5.2 | 9.65 | -10.73 | 0.54 | 5.3 | 10.93 | -9.85 |
| SFA (g) | 12.0 | 5.9 | 23.6 | 0.4 | 13.7 | 8.3 | 30.0 | -2.6 |
| % energy from SFA | 1.2 | 2.5 | 6.1 | -3.7 | 1.0 | 2.9 | 6.7 | -4.7 |
| PUFA (g) | 3.4 | 4.2 | 11.6 | -4.8 | 5.9 | 4.2 | 14.1 | -2.3 |
| MUFA (g) | 9.0 | 4.7 | 18.2 | -0.2 | 10.7 | 5.3 | 21.1 | 0.3 |
| Protein (g) | 35.7 | 10.6 | 56.5 | 14.9 | 28.3 | 20.9 | 69.3 | -12.7 |
| % energy from protein | 0.23 | 2.5 | 5.13 | -4.67 | 0.24 | 3.2 | 6.51 | -6.03 |
| CHO (g) | 90.3 | 24.5 | 138.3 | 42.3 | 77.5 | 31.5 | 139.2 | 15.8 |
| % energy from CHO | 0.5 | 4.9 | 10.1 | -9.1 | -1.0 | 5.3 | 9.4 | -11.4 |
| Starch (g) | 53.1 | 20.0 | 92.3 | 13.9 | 33.1 | 32.7 | 97.2 | -31.0 |
| Total sugars (g) | 38.7 | 20.3 | 78.5 | -1.1 | 44.0 | 29.7 | 102.2 | -14.2 |
| NSP (g) | 6.9 | 5.8 | 18.3 | -4.5 | 2.9 | 5.6 | 13.9 | -8.1 |
| Alcohol (g) | -0.4 | 7.5 | 14.3 | -15.1 | 7.7 | 12.7 | 32.6 | -17.2 |
| Retinol (µg) | 201.9 | 484.7 | 1151.9 | -748.1 | 126.7 | 410.4 | 931.1 | -677.7 |
| β-carotene (µg) | 3344.0 | 3582.9 | 10366.5 | -3678.5 | 2163.8 | 3222.3 | 8479.5 | -4151.9 |
| Vit D (µg) | 2.4 | 2.8 | 7.9 | -3.1 | 2.9 | 2.9 | 8.6 | -2.8 |
| Vit E (mg) | 4.7 | 3.1 | 10.8 | -1.4 | 4.5 | 3.8 | 11.9 | -2.9 |
| Thiamin (mg) | 0.8 | 0.3 | 1.4 | 0.2 | 0.49 | 0.7 | 1.9 | -0.9 |
| Riboflavin (mg) | 0.81 | 0.4 | 1.59 | 0.03 | 0.99 | 0.6 | 2.2 | -0.2 |
| Vit B6 (mg) | 1.0 | 0.4 | 1.8 | 0.2 | 1.0 | 0.6 | 2.2 | -0.2 |
| Vit B12 (µg) | 3.7 | 3.2 | 10.0 | -2.6 | 4.0 | 3.2 | 10.3 | -2.3 |
| Vit C (mg) | 79.7 | 67.9 | 212.8 | -53.4 | 40.4 | 61.4 | 160.7 | -79.9 |
| Folate (µg) | 151.2 | 77.7 | 303.5 | -1.1 | 117.9 | 94.1 | 302.3 | -66.5 |
| Niacin equivalents (mg) | 15.5 | 5.0 | 25.3 | 5.7 | 12.9 | 9.2 | 30.9 | -5.1 |
| Iron (mg) | 6.1 | 2.5 | 11.0 | 1.2 | 4.9 | 2.7 | 10.2 | -0.4 |
| Calcium (mg) | 465.2 | 233.5 | 922.9 | 7.5 | 560.0 | 408.9 | 1361.4 | -241.4 |
| Magnesium (mg) | 127.4 | 43.4 | 212.5 | 42.3 | 139.0 | 64.2 | 264.8 | 13.2 |
| Potassium (mg) | 1485.8 | 549.9 | 2563.6 | 408.0 | 1428.2 | 689.9 | 2780.4 | 76.0 |
| Zinc (mg) | 4.6 | 1.5 | 7.5 | 1.7 | 4.8 | 2.8 | 10.3 | -0.7 |