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| **Supplemental Table 2** Quintile and Median values for uncalibrated and calibrated BCAA variables |
| Variable | Quintile | Range | Median | Range | Median | Range | Median |
| Uncalibrated Total BCAA | 1 | <7·69 | 6·23 | <2·48 | 2·25 | <17·18 | 16·91 |
|  | 2 | 7·69 - <9·97 | 8·85 | 2·48 - <2·83 | 2·66 | 17·18 - <17·51 | 17·36 |
|  | 3 | 9·97 - <12·30 | 11·13 | 2·83 - <3·13 | 2·97 | 17·51 - <17·83 | 17·67 |
|  | 4 | 12·30 - <15·33 | 13·60 | 3·13 - <3·49 | 3·29 | 17·83 - <18·23 | 18·01 |
|  | 5 | ≥15·33 | 18·17 | ≥3·49 | 3·78 | ≥18·23 | 18·58 |
| Uncalibrated Leucine | 1 | <3·42 | 2·77 | <1·12 | 1·01 | <7·68 | 7·53 |
|  | 2 | 3·42 - <4·48 | 3·97 | 1·12 - <1·26 | 1·19 | 7·68 - <7·85 | 7·78 |
|  | 3 | 4·48 - <5·53 | 5·00 | 1·26 - <1·39 | 1·32 | 7·85 - <8·01 | 7·93 |
|  | 4 | 5·53 - <6·96 | 6·17 | 1·39 - <1·57 | 1·48 | 8·01 - <8·22 | 8·10 |
|  | 5 | ≥6·96 | 8·25 | ≥1·57 | 1·70 | ≥8·22 | 8·39 |
| Uncalibrated Isoleucine | 1 | <1·97 | 1·60 | <0·64 | 0·58 | <4·41 | 4·34 |
|  | 2 | 1·97 - <2·56 | 2·27 | 0·64 - <0·73 | 0·68 | 4·41 - <4·51 | 4·47 |
|  | 3 | 2·56 - <3·16 | 2·86 | 0·73 - <0·80 | 0·76 | 4·51 - <4·59 | 4·55 |
|  | 4 | 3·16 - <3·94 | 3·49 | 0·80 - <0·90 | 0·84 | 4·59 - <4·68 | 4·63 |
|  | 5 | ≥3·94 | 4·66 | ≥0·90 | 0·97 | ≥4·68 | 4·75 |
| Uncalibrated Valine | 1 | <2·27 | 1·84 | <0·73 | 0·66 | <5·03 | 4·96 |
|  | 2 | 2·27 - <2·94 | 2·61 | 0·73 - <0·84 | 0·79 | 5·03 - <5·13 | 5·08 |
|  | 3 | 2·94 - <3·63 | 3·29 | 0·84 - <0·91 | 0·88 | 5·13 - <5·24 | 5·19 |
|  | 4 | 3·63 - <4·53 | 4·01 | 0·91 - <1·02 | 0·96 | 5·24 - <5·39 | 5·30 |
|  | 5 | ≥4·53 | 5·31 | ≥1·02 | 1·11 | ≥5·39 | 5·53 |
| Calibrated Total BCAA | 1 | <12·30 | 11·36 | <2·34 | 2·20 |  |  |
|  | 2 | 12·30 - <13·60 | 12·94 | 2·34 - <2·51 | 2·44 |  |  |
|  | 3 | 13·60 - <14·59 | 14·15 | 2·51 - <2·64 | 2·59 |  |  |
|  | 4 | 14·59 - <15·96 | 15·18 | 2·64 - <2·83 | 2·72 |  |  |
|  | 5 | ≥15·96 | 16·95 | ≥2·83 | 2·94 |  |  |
| Calibrated Leucine | 1 | <5·47 | 5·05 | <1·04 | 0·98 |  |  |
|  | 2 | 5·47 - <6·05 | 5·75 | 1·04 - <1·12 | 1·08 |  |  |
|  | 3 | 6·05 - <6·55 | 6·30 | 1·12 - <1·19 | 1·15 |  |  |
|  | 4 | 6·55 - <7·17 | 6·82 | 1·19 - <1·27 | 1·22 |  |  |
|  | 5 | ≥7·17 | 7·61 | ≥1·27 | 1·34 |  |  |
| Calibrated Isoleucine | 1 | <3·16 | 2·92 | <0·60 | 0·57 |  |  |
|  | 2 | 3·16 - <3·49 | 3·32 | 0·60 - <0·64 | 0·63 |  |  |
|  | 3 | 3·49 - <3·78 | 3·63 | 0·64 - <0·68 | 0·66 |  |  |
|  | 4 | 3·78 - <4·10 | 3·94 | 0·68 - <0·73 | 0·70 |  |  |
|  | 5 | ≥4·10 | 4·35 | ≥0·73 | 0·76 |  |  |
| Calibrated Valine | 1 | <3·63 | 3·35 | <0·69 | 0·65 |  |  |
|  | 2 | 3·63 - <3·97 | 3·82 | 0·69 - <0·74 | 0·72 |  |  |
|  | 3 | 3·97 - <4·31 | 4·14 | 0·74 - <0·78 | 0·76 |  |  |
|  | 4 | 4·31 - <4·71 | 4·48 | 0·78 - <0·83 | 0·80 |  |  |
|  | 5 | ≥4·71 | 5·00 | ≥0·83 | 0·87 |  |  |
| Medians and range calculated using ANOVA across the quintiles of uncalibrated and calibrated BCAA values·% protein= % total protein derived from BCAA, and this ratio is constant with calibration using total protein  |