




Correction to: Plasma free amino acid profiling as metabolomic diagnostic and prognostic biomarker in paediatric cancer patients: a follow-up study

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Correction to: Amino Acids
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The correct Table 1 is given in this correction.
The original article has been updated.

In the original publication of the article, Table 1 has been published with an error. The data in the columns is not placed under its headings.

The original article can be found online at <https://doi.org/10.1007/s00726-020-02910-8>.

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Table 1 Characteristics of study population

| Age at blood collection | Cases time 1 (diagnosis) | | Cases time 3 (post-treatment), follow-up | | Healthy controls | | <i>P</i> value ^b Cases before vs. after treatment | <i>P</i> value ^c Cases after treatment vs. controls |
|------------------------------|--------------------------|--------------|--|--------------|--------------------------|--------------|---|---|
| | Median (q1–q3), <i>N</i> | Mean, StDev | Median (q1–q3), <i>N</i> | Mean, StDev | Median (q1–q3), <i>N</i> | Mean, StDev | | |
| All | 8 (2–16), 39 | 9.14, 6.45 | 8.7 (3.5–16.7), 39 | 9.99, 6.52 | 13 (9–16), 33 | 11.91, 4.87 | | |
| Hematologic malignancies | 14 (6–16), 18 | 11.83, 5.26 | 15.2 (6.5–17.1), 18 | 12.73, 5.41 | | | | |
| Solid tumours | 4 (2–12), 21 | 6.83, 6.59 | 5.3 (2.4–13.6), 21 | 7.65, 6.59 | | | | |
| Amino acid ^a | Median (q1–q3), <i>N</i> | Mean, StDev | Median (q1–q3), <i>N</i> | Mean, StDev | Median (q1–q3), <i>N</i> | Mean, StDev | <i>P</i> value ^b Cases before vs. after treatment | <i>P</i> value ^c Cases after treatment vs. controls |
| Aspartic acid (Asp) | 102.1 (17.6–123.4), 39 | 82.8, 82.2 | 103 (4.3–119.1), 39 | 73.2, 59.7 | 22.9 (15.8–32.05), 32 | 24.6, 16.1 | 0.5553 | 0.1139 |
| Glutamic acid (Glu) | 112.1 (82–169.9), 39 | 132.6, 73.9 | 78.5 (60.7–108.2), 39 | 123.0, 206.9 | 86.8 (69.1–123.8), 33 | 96.5, 40.7 | 0.004 | 0.4185 |
| Asparagine (Asn) | 79.5 (33.2–104.1), 38 | 72.6, 49.5 | 94.65 (15.1–102.1), 38 | 69.9, 45.9 | 21.5 (14.8–29.6), 33 | 25.5, 19.6 | 0.6182 | 0.0060 |
| Glutamine (Gln) | 357.4 (269.8–473.2), 39 | 434.2, 329.1 | 306.0 (201.7–414.2), 39 | 321.3, 155.5 | 741.2 (375.1–1106.4), 33 | 777.0, 469.3 | 0.1657 | <0.0001 |
| Serine (Ser) | 151.3 (70.3–213.3), 39 | 146.7, 74.5 | 150.3 (59.1–201), 39 | 140.7, 80.0 | 78.9 (55.2–101.5), 33 | 79.2, 35.8 | 0.5693 | 0.0023 |
| Histidine (His) | 89.4 (47.8–150.9), 39 | 117.1, 94.7 | 71.2 (42.0–15.0), 39 | 107.2, 96.4 | 127.5 (77.8–168.5), 33 | 139.6, 89.8 | 0.5279 | 0.0308 |
| Citrulline/glycine (Cit/Gly) | 164.6 (136.8–208.7), 39 | 231.3, 263.4 | 175.6 (148.8–569.6), 39 | 383.2, 386.2 | 134.4 (80.1–168.6), 33 | 142.2, 84.3 | 0.0429 | 0.0003 |
| Arginine (Arg) | 97.85 (67.7–151.3), 38 | 128.4, 87.9 | 115.15 (74.3–200.5), 38 | 140.4, 92.9 | 85.95 (64.8–118.0), 32 | 104.6, 69.5 | 0.983 | 0.0941 |
| Threonine (Thr) | 142.5 (90.6–194.3), 39 | 155.6, 86.3 | 128.0 (66.4–206.9), 39 | 140.9, 85.1 | 118.6 (87.65–175.85), 32 | 135.6, 69.4 | 0.5012 | 0.7429 |
| Taurine (Tau) | 65.3 (44.8–147.7), 38 | 107.0, 90.6 | 54.5 (42.0–85.6), 38 | 75.4, 53.2 | 98.9 (38.05–148.25), 32 | 102.1, 64.4 | 0.2729 | 0.0855 |
| Alanine (Ala) | 175.5 (96.1–323.4), 39 | 205.8, 137.1 | 189.4 (77.8–290.7), 39 | 224.7, 173.1 | 85.15 (67.4–198.8), 32 | 132.2, 98.9 | 0.4335 | 0.0238 |
| Tyrosine (Tyr) | 173.0 (126.2–223.7), 39 | 182.0, 101.3 | 170.6 (133.9–230.7), 39 | 216.6, 154.8 | 111.8 (73.9–286.3), 33 | 172.0, 142.4 | 0.4417 | 0.0505 |
| GABA | 74.6 (37.9–86.6), 39 | 69.2, 38.1 | 77.1 (45.0–85.5), 39 | 68.3, 19.9 | 34.9 (28.9–42.3), 33 | 36.6, 11.3 | 0.8695 | <0.0001 |
| Tryptophan (Trp) | 104.3 (25.9–164.8), 39 | 100.4, 67.2 | 150.9 (72.9–170.2), 39 | 130.6, 52.5 | 22.1 (14.5–52.0), 33 | 33.4, 26.8 | 0.0163 | <0.0001 |
| Methionine (Met) | 44.1 (20.2–94.1), 39 | 62.8, 49.3 | 84.6 (25.3–92.9), 39 | 65.8, 34.2 | 19.2 (16.9–22.6), 33 | 19.5, 5.5 | 0.5834 | <0.0001 |
| Valine (Val) | 202.8 (138.3–248.0), 39 | 201.6, 89.7 | 234.3 (171.0–265.7), 39 | 226.2, 59.6 | 157.7 (131.5–185.3), 33 | 158.5, 50.9 | 0.0809 | <0.0001 |
| Phenylalanine (Phe) | 109.4 (64.3–142.6), 39 | 106.4, 51.1 | 115.1 (74.7–133.5), 39 | 107.6, 39.1 | 46.2 (31.3–69.1), 33 | 64.1, 83.7 | 0.8803 | <0.0001 |
| Isoleucine (Ile) | 109.3 (55.4–143.2), 39 | 102.3, 53.0 | 109.3 (73.2–136.1), 39 | 112.0, 55.3 | 45.0 (33.6–55.9), 33 | 45.1, 18.4 | 0.612 | <0.0001 |
| Leucine (Leu) | 202.9 (113.7–273.1), 39 | 225.2, 156.8 | 174.2 (100.5–240.3), 39 | 235.6, 404.7 | 351.6 (140.9–543.2), 33 | 348.2, 215.6 | 0.2821 | 0.0059 |
| Ornithine (Orn) | 69.35 (55.05–128.05), 36 | 102.3, 90.9 | 94.7 (68.4–151.95), 36 | 130.5, 92.3 | 60.9 (55.5–103.3), 30 | 81.6, 49.0 | 0.1253 | 0.0048 |

Table 1 (continued)

| Amino acid ^a | Median (q1–q3), <i>N</i> | Mean, StDev | Median (q1–q3), <i>N</i> | Mean, StDev | Median (q1–q3), <i>N</i> | Mean, StDev | <i>P</i> value ^b Cases before vs. after treatment | <i>P</i> value ^c Cases after treatment vs. controls |
|-------------------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|---|---|
| Lysine (Lys) | 104.9 (82.4–132.5), 37 | 121.4, 59.0 | 144.2 (90.9–175.2), 37 | 144.8, 68.2 | 130.8 (101.3–162.3), 33 | 133.9, 42.7 | 0.1589 | 0.7022 |

^aAmino acids concentration: $\mu\text{mol/l}$

^bWilcoxon signed ranked test

^cWilcoxon ranked-sum test

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