Implications of arginine deficiency for growth and organ maturation. Studies on hair, muscle, brain and lymphoid organ maturation

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Chapter VI

Appendix
Appendix I. Circulating and intestinal amino acid levels in wild type (white bars), F/A-1**, and F/A-2** mice of the indicated age. Mice were bled after decapitation at 3 pm. Amino acids were extracted and analysed as described in the materials and methods section in Chapter III. Values are given in μM and mmol/kg tissue for plasma and intestinal tissue respectively. Each bar is a mean ± SEM of 6-10 mice. Male and female mice were pooled.
Amino acid levels and structural formulas

Appendix I. Continued
Appendix II. Structural formulas of guanidino compounds
<table>
<thead>
<tr>
<th>Amino Acid</th>
<th>Structural Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>guanidino acetate (GAA)</td>
<td>( \text{HO-C=O} )</td>
</tr>
<tr>
<td></td>
<td>( \text{CH}_2 )</td>
</tr>
<tr>
<td></td>
<td>( \text{N-H} )</td>
</tr>
<tr>
<td></td>
<td>( \text{H}_2\text{N-C}=\text{NH} )</td>
</tr>
<tr>
<td>creatine (CT)</td>
<td>( \text{HO-C=O} )</td>
</tr>
<tr>
<td></td>
<td>( \text{CH}_2 )</td>
</tr>
<tr>
<td></td>
<td>( \text{N-CH}_3 )</td>
</tr>
<tr>
<td></td>
<td>( \text{H}_2\text{N-C}=\text{NH} )</td>
</tr>
<tr>
<td>methylguanidine (MG)</td>
<td>( \text{CH}_3 )</td>
</tr>
<tr>
<td></td>
<td>( \text{N-H} )</td>
</tr>
<tr>
<td></td>
<td>( \text{H}_2\text{N-C}=\text{NH} )</td>
</tr>
<tr>
<td>creatinine (CTN)</td>
<td>( \text{HN-C}=\text{O} )</td>
</tr>
<tr>
<td></td>
<td>( \text{(CH}_2)_3 )</td>
</tr>
<tr>
<td></td>
<td>( \text{NH}_2 )</td>
</tr>
<tr>
<td>( \gamma )-aminobutyric acid (GABA)</td>
<td>( \text{HN-C}=\text{CH}_3 )</td>
</tr>
</tbody>
</table>

**Appendix II. Structural formulas continued**
Chapter VI

α-keto-δ-guanidinovaleric acid

\[
\alpha-K-\delta-GVA
\]

\[
\text{HO-C}=\text{O} \\
\text{C}=\text{O} \\
(\text{CH}_2)_3 \\
\text{NH} \\
\text{H}_2\text{N}-\text{C}=\text{NH}
\]

argininic acid

\[
\text{ArgA}
\]

\[
\text{HO-C}=\text{O} \\
\text{C}-\text{OH} \\
(\text{CH}_2)_3 \\
\text{NH} \\
\text{H}_2\text{N}-\text{C}=\text{NH}
\]

Appendix II. Structural formulas continued