Construction of the diagrams

\[ Q_{\text{Lim}} = \frac{a}{b} \sqrt{(Q_{\text{Alb}})^2 + b^2} - c \]

<table>
<thead>
<tr>
<th>IgX</th>
<th>a/b</th>
<th>b^2 \cdot 10^6</th>
<th>c \cdot 10^3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lim</td>
<td>0,93</td>
<td>6</td>
<td>1,7</td>
</tr>
<tr>
<td>IgG</td>
<td>Mean</td>
<td>0,65</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>0,33</td>
<td>2,0</td>
</tr>
<tr>
<td>Lim</td>
<td>0,77</td>
<td>23</td>
<td>3,1</td>
</tr>
<tr>
<td>IgA</td>
<td>Mean</td>
<td>0,47</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>0,17</td>
<td>74</td>
</tr>
<tr>
<td>Lim</td>
<td>0,67</td>
<td>120</td>
<td>7,1</td>
</tr>
<tr>
<td>IgM</td>
<td>Mean</td>
<td>0,33</td>
<td>306</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>0,04</td>
<td>442</td>
</tr>
</tbody>
</table>
IgG_{IF} and IgG_{Loc}

1. IgG_{loc} in course of the disease

\[ \bar{g}_{Loc} = \left[ Q_g - Q_{\text{Lim}} \left( \bar{g} \right) \right] \cdot g_{\text{Serum}} \quad (\text{g} / \text{L}) \]

<table>
<thead>
<tr>
<th></th>
<th>Punktion 2.</th>
<th>3.</th>
<th>4.</th>
<th>5.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q_{Alb} \cdot 10^{-3}</td>
<td>80</td>
<td>68</td>
<td>32</td>
<td>20</td>
</tr>
<tr>
<td>IgM loc mg/L</td>
<td>85</td>
<td>77</td>
<td>29,2</td>
<td>14,2</td>
</tr>
<tr>
<td>IgM_{fr} (%)</td>
<td>60</td>
<td>62</td>
<td>61</td>
<td>59</td>
</tr>
</tbody>
</table>
2. $\text{IgG}_{IF}$ for comparison of Ig class response in brain (dominance of an Ig Class)

$$\text{Ig}_{IF} = \frac{\text{Ig}_{loc}}{\text{Ig}} \times 100 \quad \text{(%)}$$

$$\text{Ig}_{IF} = \left[ 1 - \frac{Q_{Lim} (\text{Ig})}{Q_{\text{Ig}}} \right] \cdot 100 \quad \text{[%]}$$

<table>
<thead>
<tr>
<th></th>
<th>Alb</th>
<th>IgG</th>
<th>IgA</th>
<th>IgM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSF</td>
<td>mg/L</td>
<td>1440</td>
<td>819</td>
<td>113</td>
</tr>
<tr>
<td>Serum</td>
<td>g/L</td>
<td>36</td>
<td>12.6</td>
<td>2.7</td>
</tr>
<tr>
<td>$Q \times 10^3$</td>
<td></td>
<td>40</td>
<td>65</td>
<td>42</td>
</tr>
<tr>
<td>$Q_{Lim} \times 10^3$</td>
<td></td>
<td>-</td>
<td>35.6</td>
<td>27.9</td>
</tr>
<tr>
<td>IgLoc</td>
<td>mg/L</td>
<td>-</td>
<td>370.4</td>
<td>38.1</td>
</tr>
<tr>
<td>IgIF</td>
<td>%</td>
<td>-</td>
<td>45</td>
<td>34</td>
</tr>
</tbody>
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