Author’s response to reviews

Title: Correlation between clinical parameters of crown and gingival morphology of anterior teeth and periodontal biotypes

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Author’s response to reviews:

Dear reviewers,

We appreciate the reviewers’ detailed guidance on the study of the proportion of thick biotype in different genders. We explain as follows:

1. Our results on the proportion of thick biotype to thin biotype were for the overall sample, not for the mares. As shown in the table modified according to table 2 below, if we discuss males, the proportion of thick biotype type is 92.3%, and that of female is 62.8%. However, the proportion of thick biotype in the total sample was 69.6% in our manuscript.

Table 2 The frequency distribution of PBs

<table>
<thead>
<tr>
<th></th>
<th>Male participants [n(%)]</th>
<th>Female participants [n(%)]</th>
<th>Total [n(%)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thin</td>
<td>1 (7.7)</td>
<td>16 (37.2)</td>
<td>17 (30.4)</td>
</tr>
<tr>
<td>Thick</td>
<td>12 (92.3)</td>
<td>27 (62.8)</td>
<td>39 (69.6)</td>
</tr>
<tr>
<td>Total</td>
<td>13 (100)</td>
<td>43 (100)</td>
<td>56 (100)</td>
</tr>
</tbody>
</table>
2. If we want to discuss the proportion of thick biotype and thin biotype in men and women respectively, we agree with your guidance very much. The method is very good.

3. As far as our experiment is concerned, our view on this issue is:” This research shows that among the 56 experimental subjects, thick biotype accounted for the most, around 69.6%, while thin biotype accounted for 30.4%; and there was statistical difference in PB between males and females, which is consistent with the results by De Rouck et al. However, Lee et al. held that gender had no significant influence upon PBs, and thin biotype held about 21.8%. According to Frost N A et al., thin biotype held about 7%. Sample size and ethnic differences therein may be the major reasons for the inconsistency of results.”

We don't take the specific ratio results of men and women as our conclusion, but we can see from our new table 3 (We added Table 3 and changed the original table 3-6 to table 4-7) that there are statistical differences in periodontal biotypes between men and women.(See page 11 line 7 for details).

Best regards

Sincerely yours,

Huiqiang Sun