Evaluation of Female and Male Attractiveness in Young adults

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Conflicting results were shown whether which panel members will be more critical when evaluating the facial attractiveness.

<table>
<thead>
<tr>
<th>Author</th>
<th>Evaluators</th>
<th>Views</th>
<th>Result</th>
<th>Gender</th>
<th>Age</th>
<th>Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerr &amp; O’Donnell 1990</td>
<td>Orthodontists Dental students Art student Parents</td>
<td>Frontal Lateral</td>
<td>-</td>
<td>Old &gt; Young</td>
<td>Prof &lt; Lay</td>
<td></td>
</tr>
<tr>
<td>Phillip, et al 1992</td>
<td>16 Ortho residents 17 Dent students 71 Undergrads</td>
<td>Frontal Lateral</td>
<td>Old &gt; Young</td>
<td>Prof &gt; Lay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peerlings et al, 1995</td>
<td>8 Adolescents 8 Parents 8 Orthodontist</td>
<td>¾ smiling</td>
<td>M = F</td>
<td>Old = Young</td>
<td>Prof = Lay</td>
<td></td>
</tr>
<tr>
<td>Spyropoulos &amp; Halazonetis, 2001</td>
<td>10 Laypersons 10 Orthodontists</td>
<td>Lateral</td>
<td>-</td>
<td>-</td>
<td>Prof &gt; Lay</td>
<td></td>
</tr>
<tr>
<td>Kiekens et al, 2005</td>
<td>76 Laypersons 89 Orthodontists</td>
<td>Frontal Lateral ¾ smiling</td>
<td>M &gt; F</td>
<td>F : Old = Young M : Old &gt; Young</td>
<td>Prof &lt; Lay</td>
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<tr>
<td>Schmid et al, 2008</td>
<td>36 Laypersons</td>
<td>Frontal</td>
<td>M &gt; F</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>
Objective

• To evaluate the consistency in facial attractiveness perception of hospital staffs and laypeople across gender and age
Materials and Methods

100 photos

Evaluator

5 seconds

Evaluator

5 seconds

100 photos

S

3 seconds

S

3 seconds

5 points Likert scale

5 points Likert scale
Evaluators

Hospital staffs

- Chang Gung Memorial Hospital
  - Orthodontists
  - Plastic surgeons
  - Research assistants

Laypeople

- Chang Gung University
- Non-medical university students and staffs
Statistics

Female attractive evaluation

- 100 Photos
  - Hospital staffs
    - T test
  - Laypeople
    - T test

Male attractive evaluation

- 100 Photos
  - Hospital staffs
    - T test
  - Laypeople
    - T test
# Results

<table>
<thead>
<tr>
<th></th>
<th>Evaluators</th>
<th>Hospital staffs</th>
<th>Laypeople</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>37</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>34.22±10.44</td>
<td>29.24±8.56</td>
<td></td>
</tr>
<tr>
<td>Male : Female</td>
<td>15:22</td>
<td>22:20</td>
<td></td>
</tr>
<tr>
<td>Older : Younger</td>
<td>17:20</td>
<td>20:22</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Evaluators</th>
<th>Hospital staffs</th>
<th>Laypeople</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>41</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>34.35±10.57</td>
<td>33.71±10.06</td>
<td></td>
</tr>
<tr>
<td>Male : Female</td>
<td>16:25</td>
<td>23:21</td>
<td></td>
</tr>
<tr>
<td>Older : Younger</td>
<td>17:20</td>
<td>20:22</td>
<td></td>
</tr>
</tbody>
</table>

* Older : Older than 30 years old
## Reliability of female and male attractiveness given by hospital staffs and laypeople

The consistency of facial attractive perception were very high.

<table>
<thead>
<tr>
<th>Attractive evaluation</th>
<th>Evaluators</th>
<th>Intra-observer consistency (Cronbach's Alpha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female attractive</td>
<td>Hospital staffs</td>
<td>0.97</td>
</tr>
<tr>
<td></td>
<td>Laypeople</td>
<td>0.97</td>
</tr>
<tr>
<td>Male attractive</td>
<td>Hospital staffs</td>
<td>0.959</td>
</tr>
<tr>
<td></td>
<td>Laypeople</td>
<td>0.975</td>
</tr>
</tbody>
</table>
Influence of gender on hospital staffs’ facial attractive perception

No significant different in female and male facial attractive perception among female and male hospital staffs

Female attractive evaluation
- Male: 2.37 ± 0.54
- Female: 2.41 ± 0.53
- Overall: 2.39 ± 0.52

Male attractive evaluation
- Male: 2.54 ± 0.47
- Female: 2.50 ± 0.50
- Overall: 2.52 ± 0.48

P = 0.5542

P = 0.6145
Influence of gender on laypeople’s facial attractive perception

Male laypeople were more critical in female attractive evaluation but there were no significant different in the male attractive evaluation among female and male laypeople.

- Female attractive evaluation:
  - Male: 2.18 ± 0.60
  - Female: 2.48 ± 0.64
  - Overall: 2.32 ± 0.61

- Male attractive evaluation:
  - Male: 2.15 ± 0.43
  - Female: 2.19 ± 0.45
  - Overall: 2.17 ± 0.43

- P = 0.0007 for Female attractive evaluation
- P = 0.5185 for Male attractive evaluation
Influence of age on hospital staffs’ facial attractive perception

No significant different in female and male facial attractive perception among young and old hospital staffs

Female attractive evaluation

- Young: 2.43 ± 0.51
- Old: 2.35 ± 0.58
- Overall: 2.39 ± 0.52

P = 0.2596

Male attractive evaluation

- Young: 2.46 ± 0.47
- Old: 2.59 ± 0.52
- Overall: 2.52 ± 0.48

P = 0.0601
Influence of age on laypeople’s facial attractive perception

No significant different in female and male facial attractive perception among young and old laypeople

Female attractive evaluation

- Young: 2.35 ± 0.64
- Old: 2.30 ± 0.60
- Overall: 2.32 ± 0.61

P = 0.5947

Male attractive evaluation

- Young: 2.17 ± 0.42
- Old: 2.16 ± 0.45
- Overall: 2.17 ± 0.43

P = 0.8846
Conclusion

1. High consistency of facial attractive perception were achieved by all kind of evaluators, no matter of education background, age or gender

2. In hospital staffs, the factors of gender and age would not influence the evaluation of female and male facial attractiveness
Conclusion

3. In laypeople, male evaluators were more critical than female evaluators in the evaluation of female facial attractiveness.

4. In laypeople, the factors of age would not influence the evaluation of female and male facial attractiveness.