P2-847 Late presenting girls with Turner Syndrome can achieve a normal final height.
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Background:
• The diagnosis of Turner Syndrome (TS) must be included in the differential diagnosis of all girls with short stature.
• Despite overall earlier diagnosis and treatment there still remain patients with TS who present late with delayed puberty.
• Although growth hormone (GH) is known to increase final height (FH) in girls with TS, little evidence exists on treatment in late-presenting girls.

Objective
• To assess the effect of late GH treatment along with delayed pubertal induction on FH of girls with TS.

Study Population and Methods
• 13 girls with TS presenting after 12 years of age due to delayed puberty were studied.
• Standard GH treatment was initiated immediately after diagnosis (starting dose 40mcg/kg/d).
• 8/13 were also started on the anabolic steroid oxandrolone at the same time.
• FH was calculated when the height velocity was ≤ 2cm/year.

Results

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>age at initiation of GH (years)</td>
<td>11.92</td>
<td>16.92</td>
<td>14.37</td>
<td>1.72</td>
</tr>
<tr>
<td>age at initiation of oestrogen (years)</td>
<td>13.08</td>
<td>17.50</td>
<td>15.21</td>
<td>1.31</td>
</tr>
<tr>
<td>Δ age GH to oestrogen initiation (years)</td>
<td>-0.50</td>
<td>1.75</td>
<td>0.70</td>
<td>0.62</td>
</tr>
<tr>
<td>Final height (cm)</td>
<td>151.2</td>
<td>165</td>
<td>156.9</td>
<td>4.2</td>
</tr>
</tbody>
</table>

- The FH range was 151.2-165 cm ie. within the normal range for girls without TS.
- There was no statistically significant difference in FH-SDS between those patients who received oxandrolone and those who did not.

Conclusion
We have shown that despite late GH treatment in girls with TS presenting with delayed puberty, a normal FH can be achieved. Previous studies have shown that late pubertal induction, as well as oxandrolone treatment, improve FH (1,2), factors that seem to have had a positive effect in our patients.

Literature

All authors have nothing to declare