Using Computer-Aided Personalized System of Instruction (CAPSI) to Teach Discrete-Trials Teaching (DTT) for Educating Children with Autism Spectrum Disorders (ASDs)

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Abstract

DTT is an effective commonly used approach for teaching children with autism spectrum disorders (ASDs). The self-instructional manual can be very cost-effective when being used with CAPSI, since the latter allows training a large number of people at the same time in different locations around the world through Internet.

Method

Design (ABA)

Baseline Manual + CAPSI training

Post training

Manual + CAPSI training

Chapter 1-12

Self-practice 1 (Ch. 8), 2 (Ch. 10) and 3 (Ch. 11)

Baseline and Post training DTT Tasks

“Match”

“Show me banana”

“Do this”

Matching

Pointing

Imitation

Results

Table 1. Paired sample t-tests for the matching, pointing, and imitation tasks, and combined scores.

<table>
<thead>
<tr>
<th>Task</th>
<th>Baseline M (SD)</th>
<th>Post-treatment M (SD)</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matching</td>
<td>52.80 (13.31)</td>
<td>85.00 (11.07)</td>
<td>p &lt; .008</td>
</tr>
<tr>
<td>Pointing</td>
<td>55.20 (12.24)</td>
<td>83.40 (16.35)</td>
<td>p &lt; .008</td>
</tr>
<tr>
<td>Imitation</td>
<td>56.80 (18.07)</td>
<td>85.80 (8.93)</td>
<td>p &lt; .013</td>
</tr>
<tr>
<td>Combined</td>
<td>44.89 (12.84)</td>
<td>84.72 (10.85)</td>
<td>p &lt; .004</td>
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</table>

References


