Early gross motor and gaze behavior in infants at risk for autism: Potential for early diagnosis

V. N. Pradeep Ambati, Ph.D.
Assistant Professor
KINESIOLOGY
Autism Spectrum Disorder (ASD)

• Impairments in social interactions and communication
Autism Spectrum Disorder (ASD)

- Restricted interests and stereotyped or repetitive behaviors
Autism Spectrum Disorder (ASD)

- Postural impairments & Gaze Behavior (Considerably less research)
• Autism diagnosis and treatment is a multidisciplinary team approach.

• However, evaluation and treatment of motor activity is still evolving.

<table>
<thead>
<tr>
<th>Area</th>
<th>Score</th>
<th>Pre-test</th>
<th>Post-test</th>
<th>Descriptive Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Reciprocal Social Interaction</td>
<td></td>
<td>8</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL Communication + Social Interaction</td>
<td>14</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Your child's Total Communication and Social Interaction Score indicates that at the pre-test, your child met the criteria for **Autism**. At post-test, your child met the criteria for **No Dx**.
• Evaluating early **postural movements** and **gaze behavior** in infants at risk for Autism could modify current diagnostic/therapeutic protocols for children with Autism
• Examining posture in babies at risk for Autism

Supine lying on a pressure mat

Sitting posture on a force platform
• Examining preferential looking behavior in babies at risk for Autism
- Provide Evidence through Research
- Early Diagnosis
- Early Interventions
- Physical Therapy
Postural Control Impairment in children with Autism Spectrum Disorder

V. N. Pradeep, Ph.D.
Assistant Professor
Kinesiology
Venkata.ambati@siu.edu
Thank you for attending!