### Neurological Problems

- **Low Muscle Tone**
- **Easy High Muscle Tone**
- **Large Head Size**
- **Small Head Size**
- **Motor Disorder**
- **Seizures**
- **Cerebral Palsy**
- **Tic Disorder**
- **Spinal Cyst**
- **Cortical Blindness**
- **Movement Disorder**
- **Small Head Size**
- **Large Head Size**
- **High Muscle Tone**
- **Low Muscle Tone**

### Gastro-intestinal Problems

- **Constipation**
- **Diabetes**
- **Gastroesophageal Reflux Disease (GERD)**
- **Gastric Ulcer**
- **Inflammatory Bowel Disease (IBD)**
- **Irritable Bowel Syndrome (IBS)**
- **Diarhrea**
- **Delayed Gastric Emptying**
- **Celiac Disease**
- **Autism**

### Developmental and Behavioral Diagnoses

- **Autism Spectrum Disorder**
- **Attention-Deficit Hyperactivity Disorder (ADHD)**
- **Craniofacial Anomalies**
- **Delayed Speech**
- **Intestinal Inflammation**
- **Obstructive Sleep Apnea**
- **Seizures**
- **Language Impairment**
- **Nonverbal Cognitive Impairment**
- **Schizotypal Personality**

### Ages in Years

<table>
<thead>
<tr>
<th>Age Range</th>
<th>Number of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 4</td>
<td>32</td>
</tr>
<tr>
<td>5 - 9</td>
<td>55</td>
</tr>
<tr>
<td>10 - 14</td>
<td>15</td>
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<tr>
<td>15 - 19</td>
<td>9</td>
</tr>
<tr>
<td>20 - 24</td>
<td>3</td>
</tr>
</tbody>
</table>

### Information Spotlight: Sleep Concerns

The Children's Sleep Habits Questionnaire is a survey used to understand sleep habits and possible sleep problems in children. All individuals were between 2 and 18 years of age. 39 children with SCN2A are represented.

#### Top Sleep Problems in SCN2A

- **Wakes during night**
- **Doesn't fall asleep in 20 minutes**
- **Sleeps too little**
- **Seems tired**

#### Overall Concern for Sleep Problems in SCN2A

- **High likelihood of sleep problems (76.92%)**
- **Low likelihood of sleep problems (23.08%)**

**It is important to study sleep in children with rare neurodevelopmental disorders because these children are at higher risk for sleep problems, which can negatively impact their behavior and daily function.**

- Alison Holbrook, PhD

### Areas of Sleep Concern in SCN2A*

- **Delay in Sleep Onset**
- **Difficulty Falling Asleep**
- **Severe Sleep Problems**
- **Snoring**
- **Nocturnal Enuresis**
- **Night Terrors**
- **Bedwetting**

*Note: Participation & Registration

The information in this report is made possible by the active participation of the SCN2A community! Progress for individuals in your community with the SCN2A variant is shown below - log in to your program and register to check for new surveys and tasks. Your data will help further the genetic research needed to find answers.

**Participation & Registration**

**Note:**
- Participation rates of medical history phone interviews collected in Simon's Searchlight children with SCN2A.
- Information on reported seizure types is included on the 2021 2021 quarter 1 registration report available on simonssearchlight.org.
- Graphs show counts of individuals in each category. Individuals may appear in more than one category if they report multiple conditions.
- Data could hold the clues geneticists need to find answers.
- Areas of sleep concern in children.

**High likelihood of sleep problems**

**Low likelihood of sleep problems**