Simons Searchlight Registry
Update ASXL3 (Bainbridge-Ropers)

September 2021

Data in these four graphs are from the medical history phone interviews collected in Simons Searchlight on 42 participants with ASXL3.

Ages in Years

Developmental & Behavioral Diagnoses

- Intellectual Disability/Developmental Delay
- Language Impairment
- Autism

Neurological Problems

- Low Muscle Tone
- Clumsy
- High Muscle Tone
- Large Head Size
- Small Head Size
- Movement Disorder
- Tic Disorder
- Cerebral Palsy
- Cortical Blindness
- Spinal Cord Cyst
- Seizures

Gastrointestinal Problems

- GERD
- Diarrhea
- Constipation
- Celiac Disease
- Other

Notes:
- Graphs show counts of individuals in each category. Individual participants may appear in more than one category if they report multiple conditions.
- Information on reported seizure types is included on the 2021 quarter 1 registry report available on simonssearchlight.org/research/ASXL3.

Participation & Registration

The information in this report is made possible by the active participation of the ASXL3 community! Progress for individuals in your community with an ASXL3 variant is shown below – log in to your simonssearchlight.org dashboard today to check for new surveys and tasks. Your data could hold the clues geneticists need to find answers.

STEP 1
Sign up online.

STEP 2
Provide your clinical lab report.

STEP 3
Schedule medical history phone call with a genetic counselor.

STEP 4
Fill out surveys.

STEP 5
Provide a blood sample if you are interested.

STEP 6
We follow up with you over time.

Log in to see next steps
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. 17 children with ASXL3 are represented.

Top Sleep Problems in ASXL3

- Doesn’t fall asleep in 20 minutes
- Wets the bed at night
- Restless and moves a lot
- Seems tired

Overall Concern for Sleep Problems in ASXL3

High likelihood of sleep problems (64.71%)
Low likelihood of sleep problems (35.29%)

“... 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 functioning.

-Alison Holbrook, PhD

Areas of Sleep Concern in ASXL3

Daytime Sleepiness: 3
Breathing: 8
Parasomnias (e.g. sleepwalking): 10
Night Wakeings: 7
Sleep Anxiety: 6
Doesn’t Get Enough Sleep: 17
Delay Falling Asleep: 11
Bedtime Struggle: 16

The bars in the graph show the number of children with a more significant problem in each aspect of sleep. Top Sleep Problems is how the most frequently reported problem behaviors related to sleep. Areas of Sleep Concerns are made up of several sleep problem behaviors that are similar in type. Top Sleep Problems may not result in increased concern for Areas of Sleep if similar behaviors are not also a problem.