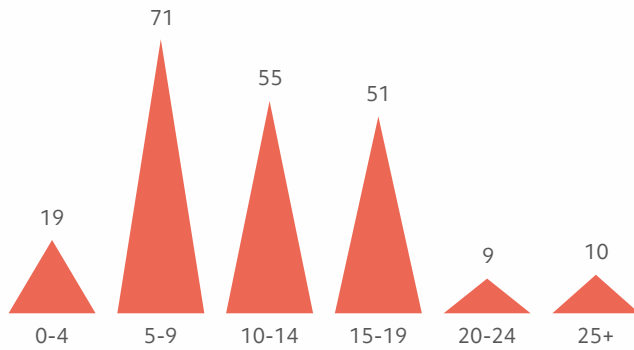


# Simons Searchlight Registry Update 16p11.2 deletion

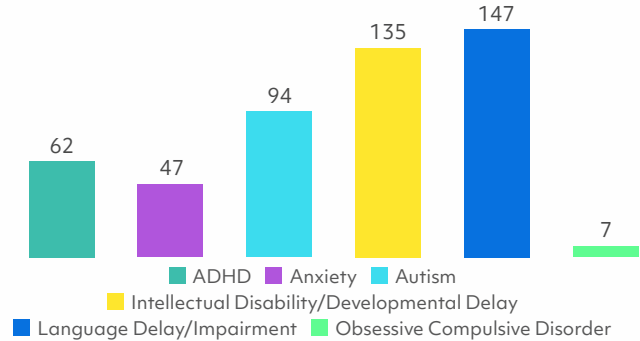
Data in these four graphs are from the medical history phone interviews collected in Simons Searchlight from 215 participants with a 16p11.2 deletion.

August 2023

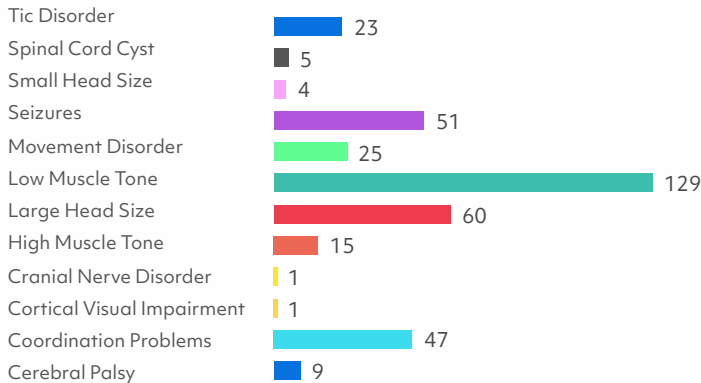
## Ages in Years



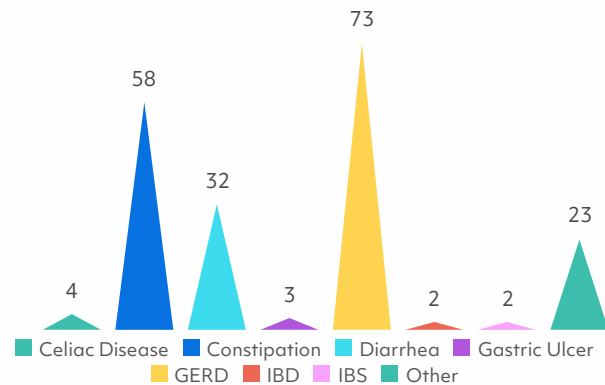
## Developmental and Behavioral Conditions



## Neurological Conditions



## Gastrointestinal Conditions



NOTES: Graphs show counts of individuals in each category. Individual participants may appear in more than one category if they report multiple conditions.

## How to participate?

The information in this report is made possible by the active participation of the 16p11.2 deletion community! Progress for individuals in your community with 16p11.2 deletion is shown below - log in to your [simonssearchlight.org](https://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

504



### STEP 2

Provide your  
genetic  
lab report

293



### STEP 3

Share your  
important  
medical history

225



### STEP 4

Fill out  
surveys

243



### STEP 5

Provide a blood  
sample if you are  
interested

107



### STEP 6

Update us  
every year

Log in to see  
next steps

# Information Spotlight: Deeper Dive into Development

We use a standardized measure called the Vineland Adaptive Behavior Scales (Vineland-3) to measure each person's development in communication, self-care, social skills, and in younger children, motor skills.

We can learn how skills develop over time by looking at growth charts. The sample graph on the next page is an example growth chart, and the graphs afterwards show real Vineland-3 data from your community.

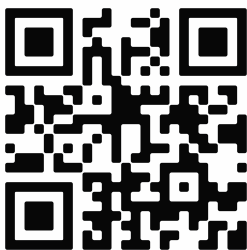
When we plot everyone together, we can see what people can do at younger and older ages. This is one snapshot in time. The more people fill out their Vineland over time, the more we can estimate what true longitudinal growth looks like for everyone in your community.



**125 16p11.2 deletion  
participants contributed  
Vineland-3 data to this  
report**



**Scan the QR code below or use the following link**  
**([bit.ly/Searchlight\\_Vineland\\_Graph](https://bit.ly/Searchlight_Vineland_Graph))** for a video from Dr. LeeAnne Green Snyder,  
Clinical Research Scientist for Simons Searchlight, on how to read the Vineland  
Adaptive Behavior Scales growth charts.



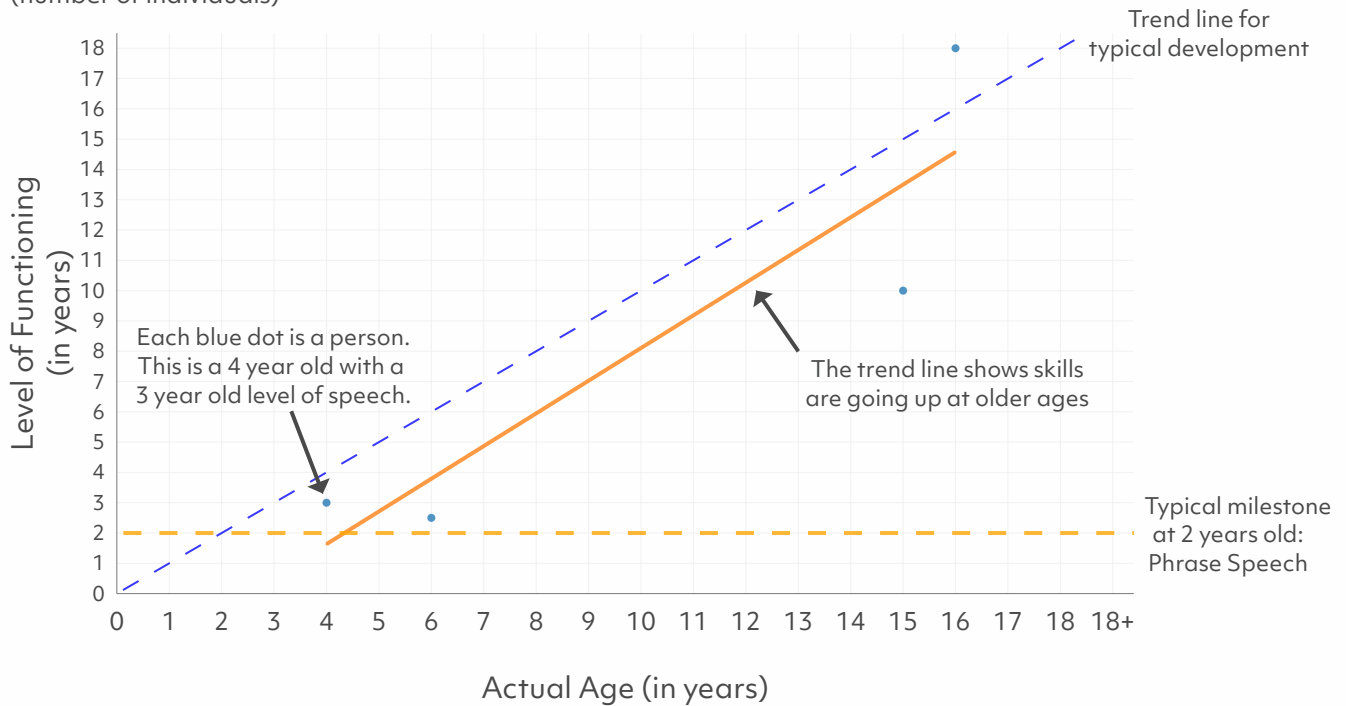
We will continue to collect Vineland data every year. Over time, we will have a better understanding of how individuals with 16p11.2 deletion change as they get older.

Kindly note that these charts are from self-reported online research surveys and errors are possible. The skills shown are only estimates and may not apply to everyone. Remember that everyone develops at their own pace, and individual perspectives and responses may vary. Please let us know if you have any questions.

# Sample graph:

## Developmental Levels in Speech at Younger and Older Ages

### Expressive Language Development (number of individuals)



**What does this mean as my child gets older?**

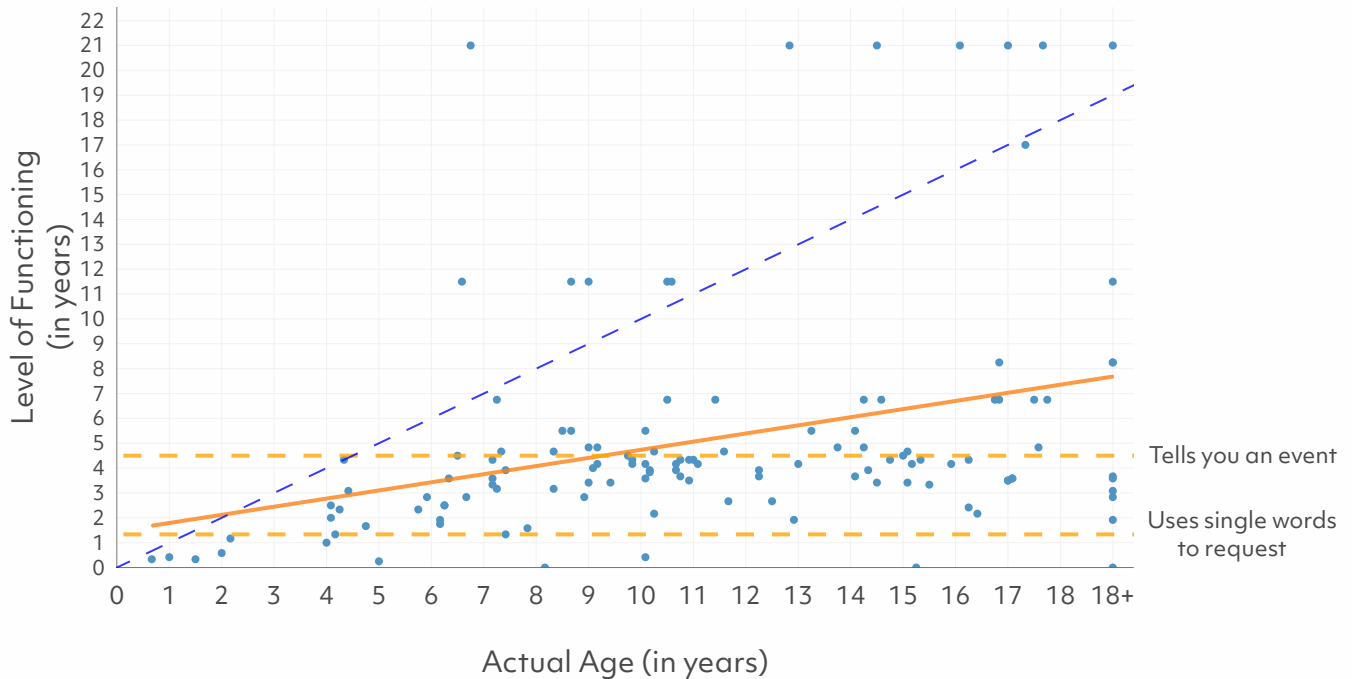
Along the bottom is the actual age of the person.

The dots are placed at the level at which they are expressing themselves.

A percentage of individuals are likely to be using language at age 4 and older.

# Developmental Levels in Speech at Younger and Older Ages in 16p11.2 deletion

## Expressive Language Development (125 individuals)



**What does  
this mean as  
my child gets  
older?**

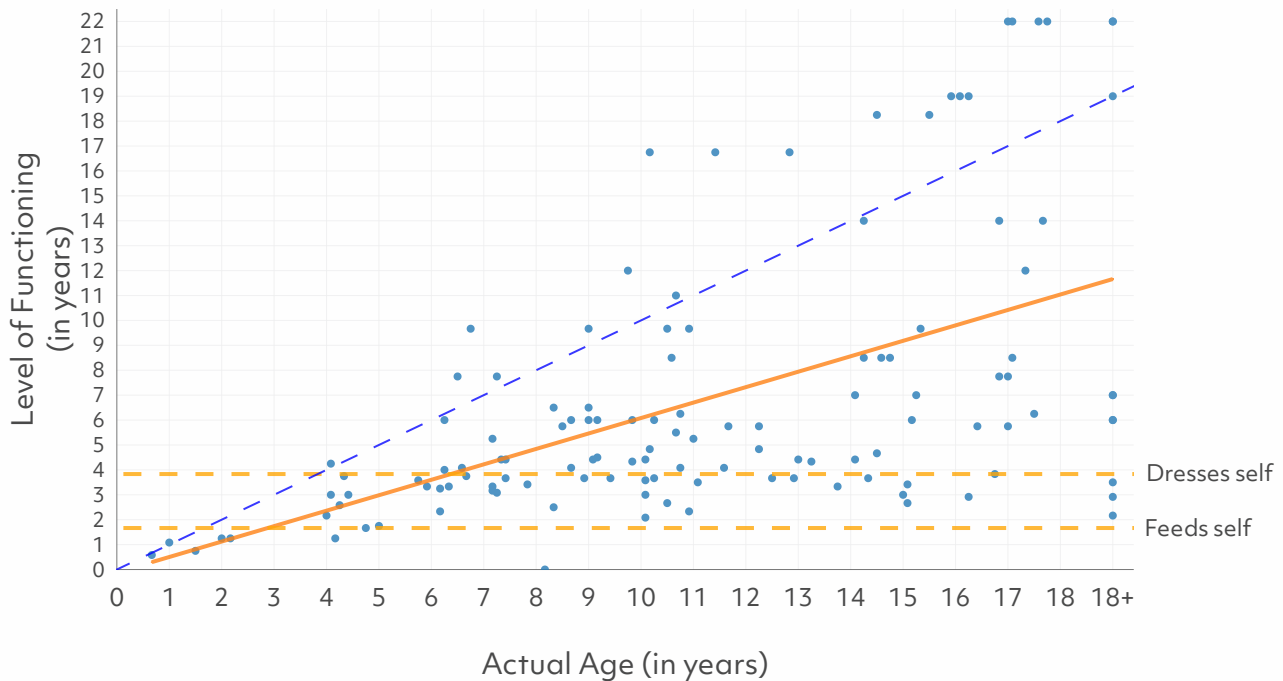
Along the  
bottom is the  
actual age of  
the person.

The dots are  
placed at the level  
at which they  
express  
themselves.

95% of individuals  
are likely to be  
using language at  
age 4 and older.

# Developmental Levels in Self Care at Younger and Older Ages in 16p11.2 deletion

Self Care Skills Development  
(125 individuals)



**What does  
this mean as  
my child gets  
older?**

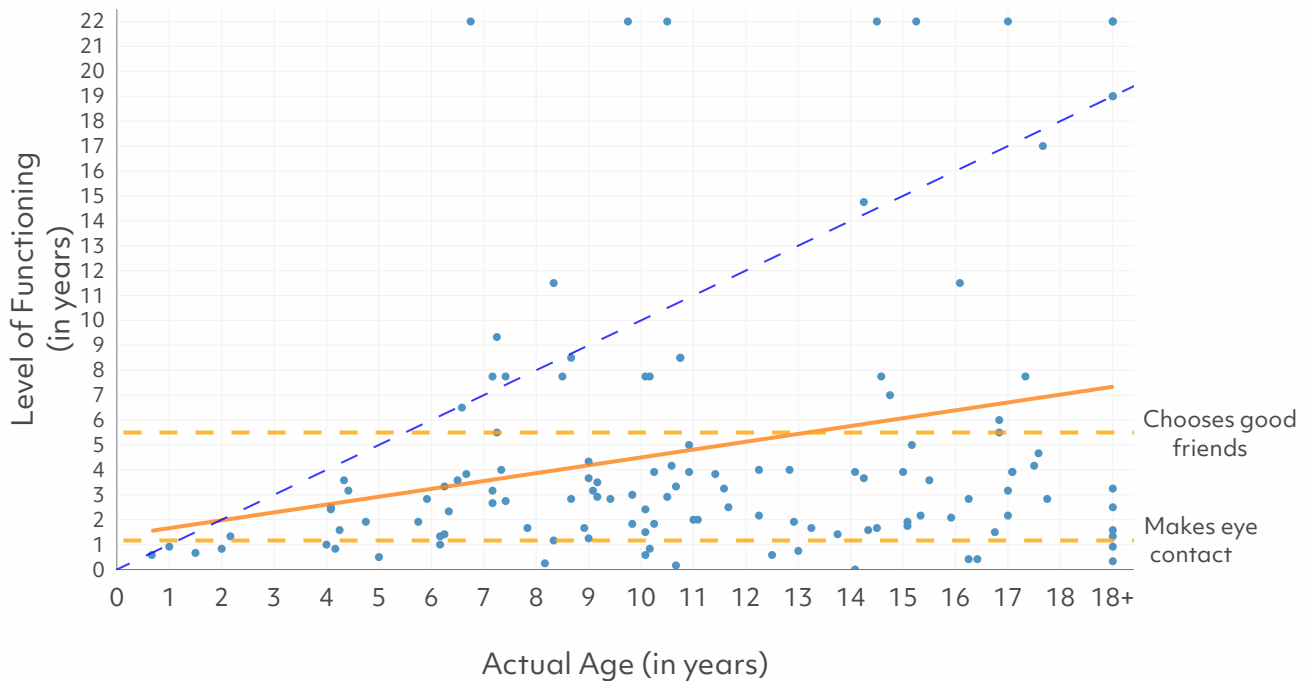
Along the  
bottom is the  
actual age of  
the person.

The dots are  
placed at the level  
at which they can  
do things for  
themselves.

98% of individuals  
are likely to be  
feeding  
themselves at age  
4 and older.

# Developmental Levels in Social Skills at Younger and Older Ages in 16p11.2 deletion

Social Skills Development  
(125 individuals)



**What does  
this mean as  
my child gets  
older?**

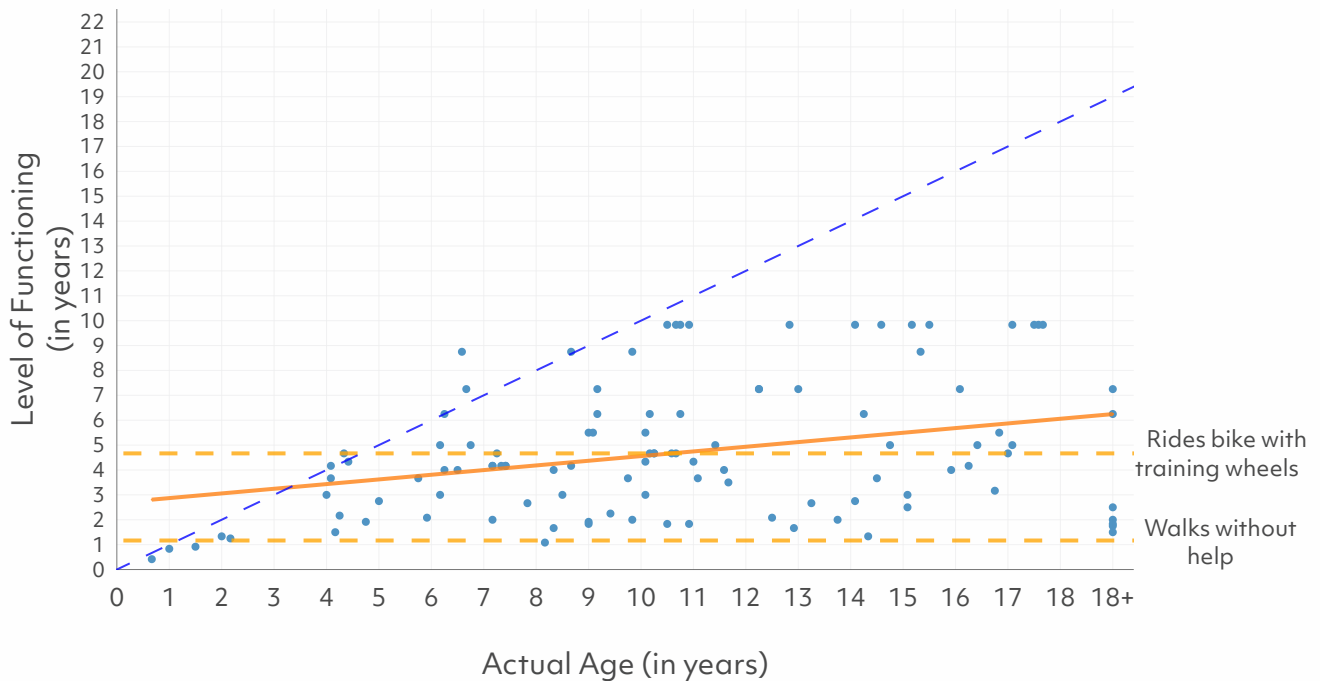
Along the  
bottom is the  
actual age of  
the person.

The dots are  
placed at the level  
of their social  
behavior.

88% of individuals  
are likely to be  
making eye  
contact at age 4  
and older.

# Developmental Levels in Motor Skills at Younger and Older Ages in 16p11.2 deletion

## Motor Skills Development (108 individuals)



**What does  
this mean as  
my child gets  
older?**

Along the  
bottom is the  
actual age of  
the person.

The dots are  
placed at the level  
of their motor  
skills.

99% of individuals  
are likely to be  
walking at age 4  
and older.