

ASD & Outcomes



May 6, 2024

Disclosures

Disclosure Statement

Catalight is a TRICARE provider we I have no other relevant financial or non-financial relationships to disclose.





About Catalight

Catalight is creating a more equitable world so people with disabilities can choose their path.



- Non-profit based in the U.S.
- Serving over 14,000 families a day
- About 12,000 families have an IDD/autism family member that participates in our behavioral health treatment programs



Fastest-growing developmental disability



Autism is the **fastest-growing developmental disability** in the U.S., according to the Centers for Disease Control and Prevention (CDC)

Prevalence rate is

1 in 36

In California, it is

1 in 22*

allol



*Maenner et al., 2023



neuroaivergent andromic Disable ID and ASD atism-ID Proposition Autism-ID **ASD-ADHD** ADHD

Intellectual disability (ID) and Autism

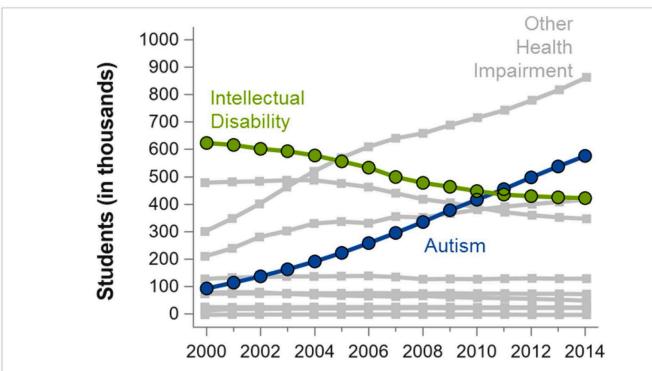


FIGURE 1 Number of students (in thousands) in the US who receive special education services pursuant to the Individuals with Disabilities Education Act, adapted from a previous publication (6). Numbers are plotted by the beginning of academic year (*X*-axis) and by diagnostic group, which are mutually exclusive. Other diagnoses not explicitly labeled include deaf-blindness, developmental delay, emotional disturbance, hearing impairment, multiple disabilities, and orthopedic impairment. The most common diagnoses, specific learning disabilities (in 2014, n = 2,278), and speech or language impairment (in 2014, n = 1,332) are not shown. Figure produced from data obtained from the U.S. Department of Education (7).

Complexity:

- Significant overlap of Sx
- Are we preferentially Dx autism over ID? (Thurm et al., 2019)
- Autism research excludes patients with ID (Russell et al., 2019)

Thurm et al., 2019





Population vs Individual measures?



Outcome Measures Considerations

Includes caregiver/family

Addresses disability & support needs

Scalable

Standardized

Rolls up to a global measure

Measures - Options

Child

- 1. Adaptive behavior scale (e.g. Vineland-3).
- 2. Measures of disruptive or dangerous behavior (e.g. Vineland externalizing/internalizing scales or standalone measure).
- 3. Goal measures that include measurement of goals that are partially met (e.g. goal attainment scale GAS).
- 4. Wellbeing or QoL (youth/adults) measure.

Caregiver/family

- 1. Measure of parental stress.
- 2. Measure of parental self-efficacy.
- 3. Family wellbeing or QoL.

Measures of autism core symptoms or IQ are not included as these measures lack good empirical support and their relationship to wellbeing is weak.



Outcome Pyramid

Wellbeing as a global outcome measure

Wellbeing

Goals attainment

Adaptive behaviors & decrease in disruptive or dangerous behaviors

Family/caregiver measures

Figure 1::Example of how all outcome measures can roll up to wellbeing

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Outcome Measures

Wellbeing (Catalight Family, Youth or Adult Wellbeing Scale) (15 itemsparent/patient scale)

Catalight Parental Self-Efficacy Scale (2-4 items-parent scale)

Parental Stress Survey-IDD version (15 items-parent scale)

Adaptive behavior with the Vineland-3 (parent or provider)

Disruptive behavior (Vineland -3 Internalizing and Externalizing scales)

Catalight Continuous Dangerous Behavior Surveillance Scale (provider scale)

Sleep questionnaire (provider scale)

Goal Attainment Scale (provider scale)



Wellbeing Scales

Catalight.org

Catalight Practice
Guidelines with
outcomes measures
and more!





Appendix

Journal of Autism and Developmental Disorders https://doi.org/10.1007/s10803-024-06254-0

ORIGINAL ARTICLE



Initial Psychometric Properties of the Catalight Family Wellbeing Scale

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Abstract

Purpose Wellbeing refers to a person's overall happiness and satisfaction with life. Wellbeing for people with Intellectual and Developmental Disabilities (I/DD) and their families is historically significantly lower compared to the general population. It is important in the context of behavioral health treatment to not only measure the individual who is receiving treatment's overall wellbeing, but also the wellbeing of the family. The purpose of this study was to understand the initial psychometric properties of the Catalight Family Wellbeing Scale.

Methods The Catalight Family Wellbeing Scale was developed for families who have a child with I/DD. Caregivers of 3106 families who have a child with a diagnosed I/DD, including autism spectrum disorder, completed the scale as part of their onboarding for behavioral health treatment along with three other questionnaires. The psychometric properties including internal reliability and factor structure were completed as well as initial convergent and divergent validity.

Results Results of the analyses revealed very strong internal reliability and a three-factor structure. Validity analyses revealed a moderate positive relationship with parental self-efficacy and a moderate negative relationship with parental stress. Additionally, the sample population represents an ethnically diverse group with multiple co-occurring diagnosis in addition to I/DD.

Conclusions The initial psychometric properties of the Catalight Family Wellbeing Scale are positive and support the use of the scale for families who have a child with I/DD across a diverse sample.

Catalight Family Wellbeing Scale Sneed et al., 2024

Catalight Family Wellbeing Scale

Table 2 Rotated structure matrix for PCA with varimax rotation of CFWS

Item	Rotated Component Coefficients			
	Relationship	Family Management	Family Determination	Commu- nalities
R1 - We are able to resolve conflict and support each other when things go	0.82			0.72
wrong				
R2 - We have good communication in our family	0.80			0.71
R3 - In my family we share our feelings and support each others emotional needs	0.76			0.63
R4 - We prioritize individual family health needs.	0.67			0.54
R5 - We enjoy spending time together	0.67			0.60
R6 - Family members feel safe in our family	0.61			0.51
R7 - Working members of my family are able to balance work and caregiver/childcare responsibilities	0.54			0.58
R8 - We are able to balance family needs so that we can pursue our own interests.	0.51			0.51
FM1 - We have support outside of our family to help with caregiver/childcare responsibilities.		0.75		0.57
FM2 - Financial cost of caregiving for our family member with a disability, autism or a developmental delay is manageable		0.67		0.51
FM3 - Our family is part of a larger community		0.66		0.45
FM4 - We have access to disability, autism or developmental delay related resources		0.65		0.47
FD1 - In my family, we have what we need for food and shelter			0.80	0.71
FD2 - We care about one another			0.75	0.71
FD3 - Our family is able to make decisions that benefit us.			0.58	0.52

Catalight Continuous Dangerous-Behavior Surveillance (CDS) Measure



- Developed in 2021
- The CDS defines dangerous behavior (DB) as severe behaviors that could result in physical injury requiring first aid, medical attention or behaviors that could result in law enforcement involvement
- The CDS measures both frequency and severity of DB across
 eight DB types
- The CDS allows Catalight to monitor an individual's DB as well as provide a population measure of DB (CDS Population Score)
- Challenging or disruptive behavior is tracked separately and is not part of CDS



CDS Dangerous Behaviors Types

Only behaviors that cause or have a high probability of causing physical injury or law enforcement involvement are included.

- Physical harm to others (severe aggression)
- Self-injurious behavior
- Dangerous elopement that is not age-appropriate

- Property destruction
- Pica
- Behaviors connected to elimination
- Other behaviors that might lead to physical harm or law enforcement involvement

