



Autism Spectrum Disorder (ASD) & Special Needs

Uncovering Powerful Insights

[MOSAICDX.COM](https://mosaicdx.com)

Why We Need to Look Deeper

ASD affects approximately 1 in 31 children in the U.S., with increased prevalence over the past two decades based on broader diagnostic criteria, expanded screening, and increased awareness. Diagnosis remains behavioral, but biology is deeply heterogeneous; no two presentations are identical. An integrated testing approach helps clinicians identify the dominant biological drivers and match them to the most relevant testing lens.

ASD Rarely Travels Alone — Common Comorbidities



GI Dysfunction
33-55% of children with ASD



ADHD Co-occurrence
40-85% of individuals with ASD



Epilepsy / Seizures
10-30% of individuals with ASD



Sensory Processing Differences
60-96% show atypical sensory reactivity



Psychiatric Comorbidity
55-94 % of individuals with ASD



Sleep Disorders
50-80% of children with ASD



Metabolic & Mitochondrial
Commonly under identified

Individual results may vary.



Exposure-Oriented

Concerns about toxins from **mold, chemicals, heavy metals, or pesticides**

DIG DEEPER

Toxic exposures, including mold-related mycotoxins, heavy metals, pesticides, and other toxicants, have been investigated as contributors of neuroinflammation, impaired detoxification, mitochondrial dysfunction, and oxidative stress in susceptible individuals with ASD.

WHEN TO TEST

- Child lives or attends school in a water-damaged or high-mold-burden building
- History of regression following a known or suspected environmental change
- Impaired detoxification suspected (low glutathione, methylation concerns)



Metabolic

Energy, nutrients & oxidative stress concerns

DIG DEEPER

Children with ASD frequently exhibit mitochondrial dysfunction, impaired neurotransmitter synthesis, oxidative stress, and nutrient insufficiencies — all measurable through organic acid biomarkers.

WHEN TO TEST

- Child presents with fatigue, regression, or inconsistent energy levels.
- Mood instability, anxiety, or hyperactivity without a clear behavioral trigger
- Nutritional deficiency, B-vitamin insufficiency, or mitochondrial dysfunction suspected

TEST



MycoTOX
PROFILE™



TOXDetect
PROFILE™



Metals
TOXIC + NUTRIENT

TEST



OAT
ORGANIC ACIDS TEST



Melissa Smith,
CPNP-PC, PMHS

"Erin's mood is much more stable and her anger outbursts have decreased significantly because of the findings from the Organic Acids Test."

The Challenge

- Anger outbursts
- Aggression
- Headaches
- Insomnia
- Hypersensitivity to sounds and textures

The Breakthrough

MosaicDX testing revealed:

- Mold colonization
- Clostridial overgrowth
- Neurotransmitter and detoxification imbalances

The Transformation

After targeted treatment:

- Mood stabilized
- Anger outbursts decreased
- Sensitivity to textures improved

**Results shared by treating clinician. Individual outcomes may vary.*



Gut-Brain

GI issues, microbiome disruption & gut-immune connection

DIG DEEPER

Children with ASD show alterations in gut microbial composition, with disruptions in microbial diversity, intestinal barrier integrity, and gut-derived inflammation that may influence behavior, cognition, and immune regulation.

WHEN TO TEST

- GI symptoms (constipation, diarrhea, bloating, pain) accompany developmental or behavioral symptoms
- History of significant antibiotic use or recurrent GI illness
- Behavioral severity appears to fluctuate with diet or GI status

TEST



GI360

MICROBIOME PROFILE



Food-Related

Symptoms linked to **meals, specific foods, or food sensitivities**

DIG DEEPER

Food-specific IgG antibodies may be elevated in children with ASD, of which eggs, milk, and wheat are the most common triggers, and may be associated with stereotyped-behavior severity and GI symptoms.

WHEN TO TEST

- Selective eating, food refusal, or pica behaviors are present
- GI symptoms or behavioral changes reliably follow specific foods or meals
- Caregiver reports child "does better" on elimination or restricted diet

TEST



IgG Food MAP

WITH CANDIDA + YEAST

Supporting Practitioners Beyond Testing

Supporting Practitioners with Clinical Education Consults

- ✓ Test selection support
- ✓ Report review guidance
- ✓ Next-step planning

Educational Resources

Access evidence-based education and practical tools to deepen your clinical expertise.

Resource Guides

Practical resources to support test selection and result interpretation.

Webinars

Live and on-demand sessions with experts on timely topics.

Articles and Blogs

Evidence-based insights, protocols, and research updates.

Edge Summit Education

Our annual event featuring leading experts and advanced clinical education.

This document is for informational and educational purposes only. The test results are not intended to diagnose, treat, cure, or prevent disease. All clinical interpretation should be done by a qualified healthcare provider in the context of the individual patient. Statements regarding associations between health symptoms and conditions do not constitute diagnostic claims.



How to Order Testing

1. ORDER

Order easily through our secure provider portal or EHR integration

2. COLLECT

Patient receives collection kit with clear instructions and support

3. SEND

Send Samples are shipped to our CLIA-certified laboratory

4. REVIEW

Results are delivered in a clear, actionable format with clinical insights.

5. ACT

Use results to personalize care and track patient progress.

References

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