

## REFERENCES

- [1] Hyman, S. L., Levy, S. E., Myers, S. M. et al. Identification, evaluation, and management of children with autism spectrum disorder. *Pediatrics* **145** (2020).
- [2] Kalb, L. G. et al. Determinants of appointment absenteeism at an outpatient pediatric autism clinic. *Journal of Developmental & Behavioral Pediatrics* **33**, 685–697 (2012).
- [3] Bisgaier, J., Levinson, D., Cutts, D. B. & Rhodes, K. V. Access to autism evaluation appointments with developmental-behavioral and neurodevelopmental subspecialists. *Archives of pediatrics & adolescent medicine* **165**, 673–674 (2011).
- [4] Fenikilé, T. S., Ellerbeck, K., Filippi, M. K. & Daley, C. M. Barriers to autism screening in family medicine practice: a qualitative study. *Primary health care research & development* **16**, 356–366 (2015).
- [5] Gordon-Lipkin, E., Foster, J. & Peacock, G. Whittling Down the Wait Time: Exploring Models to Minimize the Delay from Initial Concern to Diagnosis and Treatment of Autism Spectrum Disorder. *Pediatr. Clin. North Am.* **63**, 851–859 (2016).
- [6] Volkmar, F. et al. Practice parameter for the assessment and treatment of children and adolescents with autism spectrum disorder. *Journal of the American Academy of Child & Adolescent Psychiatry* **53**, 237–257 (2014).
- [7] Robins, D. L. et al. Validation of the modified checklist for autism in toddlers, revised with follow-up (m-chat-r/f). *Pediatrics* **133**, 37–45 (2014).
- [8] Gordon-Lipkin, E., Foster, J. & Peacock, G. Whittling down the wait time: exploring models to minimize the delay from initial concern to diagnosis and treatment of autism spectrum disorder. *Pediatric Clinics* **63**, 851–859 (2016).
- [9] Jashar, D. T., Brennan, L. A., Barton, M. L. & Fein, D. Cognitive and adaptive skills in toddlers who meet criteria for autism in dsm-iv but not dsm-5. *Journal of autism and developmental disorders* **46**, 3667–3677 (2016).
- [10] Onishchenko, D. et al. Reduced false positives in autism screening via digital biomarkers inferred from deep comorbidity patterns. *Science Advances* **7** (2021).
- [11] Won, H., Mah, W. & Kim, E. Autism spectrum disorder causes, mechanisms, and treatments: focus on neuronal synapses. *Front Mol Neurosci* **6**, 19 (2013).
- [12] Rose, S. et al. Mitochondrial dysfunction in the gastrointestinal mucosa of children with autism: A blinded case-control study. *PLoS ONE* **12**, e0186377 (2017).
- [13] Sajdel-Sulkowska, E. M. et al. Common Genetic Variants Link the Abnormalities in the Gut-Brain Axis in Prematurity and Autism. *Cerebellum* **18**, 255–265 (2019).
- [14] Kayser, M. S. & Dalmau, J. Anti-NMDA Receptor Encephalitis in Psychiatry. *Curr Psychiatry Rev* **7**, 189–193 (2011).
- [15] Dadalko, O. I. & Travers, B. G. Evidence for Brainstem Contributions to Autism Spectrum Disorders. *Front Integr Neurosci* **12**, 47 (2018).
- [16] Young, A. M. et al. From molecules to neural morphology: understanding neuroinflammation in autism spectrum condition. *Mol Autism* **7**, 9 (2016).
- [17] Croen, L. A. et al. Family history of immune conditions and autism spectrum and developmental disorders: Findings from the study to explore early development. *Autism Res* **12**, 123–135 (2019).
- [18] Zerbo, O. et al. Immune mediated conditions in autism spectrum disorders. *Brain Behav. Immun.* **46**, 232–236 (2015).
- [19] Vargason, T., McGuinness, D. L. & Hahn, J. Gastrointestinal Symptoms and Oral Antibiotic Use in Children with Autism Spectrum Disorder: Retrospective Analysis of a Privately Insured U.S. Population. *J Autism Dev Disord* **49**, 647–659 (2019).
- [20] Fiorentino, M. et al. Blood-brain barrier and intestinal epithelial barrier alterations in autism spectrum disorders. *Mol Autism* **7**, 49 (2016).
- [21] Rødgaard, E.-M., Jensen, K., Vergnes, J.-N., Soulières, I. & Mottron, L. Temporal Changes in Effect Sizes of Studies Comparing Individuals With and Without Autism: A Meta-analysis. *JAMA Psychiatry* **76**, 1124–1132 (2019).
- [22] Christensen, D. L. et al. Prevalence and characteristics of autism spectrum disorder among children aged 4 years—early autism and developmental disabilities monitoring network, seven sites, united states, 2010, 2012, and 2014. *MMWR Surveillance Summaries* **68**, 1 (2019).
- [23] Burkett, K., Morris, E., Manning-Courtney, P., Anthony, J. & Shambley-Ebron, D. African american families on autism diagnosis and treatment: The influence of culture. *Journal of Autism and Developmental Disorders* **45**, 3244–3254 (2015).