

Comprehensive Model for the Treatment and Management of Complex Autism Spectrum Disorder

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Objectives Autism Spectrum Disorder (ASD) is a complex neurodevelopmental disorder with heterogeneity in symptom presentation and increasing prevalence, with 1 in 44 children being diagnosed worldwide. Notably, 70% of individuals with ASD have at least one comorbid psychiatric diagnosis, and half have two or more. It is crucial to adopt a concise and patient-centered approach to recognizing and managing ASD comorbidities. While traditional models have primarily focused on behavioral and social interventions, more research is needed managing comorbidities using pharmacotherapy in psychiatry care practice. To bridge this gap, we propose a one-page model for the management of ASD that integrates established behavioral interventions and support services with various pharmacological treatments. This model is driven by longitudinal clinical experience and supported by a thorough literature review.

Methods A comprehensive and systematic search of published studies on autism management with appropriate combination of terms, guided by the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines, was conducted on PubMed, APA PsycInfo, Cochrane Library, and Embase databases from inception to May 2023. The initial screen included 2,462 articles. After eliminating based on titles and abstracts, 64 articles including book chapters were reviewed.

Results Our one-page comprehensive model, supported by 64 citations, encompasses the following five treatment domains; 1) Psychosocial and Psychological interventions to target core behavioral symptoms; 2) Individualized Education Plans to address the unique learning needs of individuals with ASD; 3) Assistive Technology and Sensory Integration Therapy to enhance social communication, language development, and address sensory sensitivities, respectively; 4) Pharmacotherapy to address psychiatric and medical comorbidities; 5) Supportive Services such as parent or caregiver training, and transitional planning.

Conclusions Based on these results, we present a one-page comprehensive model that addresses the multifaceted nature of ASD. By combining evidence-based practices and emerging research, this model promotes interdisciplinary approach across multiple domains and contributes to advancing complex ASD treatment and management.

References



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