

DEVELOPMENTAL AND BEHAVIOURAL PEDIATRICS**EVALUATION IN DEVELOPMENTAL AND BEHAVIOURAL PROBLEMS*****Shambhavi Seth**

Abstract: *Developmental and behavioral disorders in children, require early identification and intervention to improve long-term outcomes. This article highlights the importance of comprehensive evaluation, involving medical and developmental history, physical examinations, behavioral observations and standardized assessments. Pediatricians play a crucial role in early detection, diagnosis, and management by collaborating with specialists, counseling families and providing ongoing monitoring and support. Increased awareness and utilization of developmental screening tools are essential for timely intervention and better developmental outcomes for children.*

Keywords: *Development evaluation, Screening, Role of Pediatrician.*

Points to Remember

- *Development Surveillance and screening should be part of regular pediatric practice.*
- *Use of simple, culture specific yet standardised tools for screening at 9, 18, 24/30 months or when concerns are reported can help pick up impairments early.*
- *Any child who fails the initial screening test should be promptly referred for a more comprehensive evaluation to determine the nature and extent of the developmental delay or disability.*
- *Pediatrician's role is not limited to referral but also periodically reviewing management plan, development monitoring, counselling parents.*
- *Meticulous documentation of all findings, interventions, and outcomes is an essential practice for maintaining accurate records, tracking the child's progress and ensuring continuity of care.*

References

1. World Health Organization, World Bank. World report on disability. Geneva, World Health Organization, 2011. Available from: URL:http://www.who.int/disabilities/world_report/2011. Accessed January 15, 2014.
2. Arora NK, Nair MKC, Gulati S, Deshmukh V, Mohapatra A, Mishra D, et al. Neurodevelopmental disorders in children aged 2-9 years: Population-based burden estimates across five regions in India. *PLoS Med.* 2018; 15(7):e1002615. doi: 10.1371/journal.pmed.1002615. PMID: 30040859; PMCID: PMC6057634.
3. Maenner MJ, Warren Z, Williams AR, Amoakohene E, Bakian AV, Bilder DA, et al. Prevalence and Characteristics of Autism Spectrum Disorder Among Children Aged 8 Years - Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2020. *MMWR Surveill Summ.* 2023; 72(2): 1-14. doi: 10.15585/mmwr.ss7202a1. PMID: 36952288; PMCID: PMC10042614.
4. Boyle CA, Boulet S, Schieve LA, Cohen RA, Blumberg SJ, Yeargin-Allsopp M, et al. Trends in the prevalence of developmental disabilities in US children,

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- 1997-2008. *Pediatrics*. 2011; 127(6):1034-42. doi: 10.1542/peds.2010-2989. Epub 2011 May 23. PMID: 21606152.
5. Zubler JM, Wiggins LD, Macias MM, Whitaker TM, Shaw JS, Squires JK, et al. Evidence-Informed Milestones for Developmental Surveillance Tools. *Pediatrics*. 2022 ;149(3):e2021052138. doi: 10.1542/peds.2021-052138. PMID: 35132439; PMCID: PMC9680195.
 6. National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention. Tools for Tracking Milestones. Available at: <https://www.cdc.gov/ncbddd/actearly/freematerials.html>. Accessed August 26, 2021.
 7. Lipkin PH, Macias MM; Council on Children With Disabilities, Section on Developmental and Behavioral Pediatrics. Promoting optimal development: Identifying infants and young children with developmental disorders through developmental surveillance and screening. *Pediatrics*. 2020; 145(1):e20193449.
 8. Canadian Task Force on Preventive Health Care. Recommendations on screening for developmental delay. *CMAJ*. 2016; 188(8):579-587. doi: 10.1503/cmaj.151437. Epub 2016 Mar 29. PMID: 27026672; PMCID: PMC4868607.
 9. Juneja M, Gupta A, Sairam S, Jain R, Sharma M, Thadani A, et al. Diagnosis and Management of Global Development Delay: Consensus Guidelines of Growth, Development and Behavioral Pediatrics Chapter, Neurology Chapter and Neurodevelopment Pediatrics Chapter of the Indian Academy of Pediatrics. *Indian Pediatr*. 2022 May 15; 59(5):401-415. Epub 2022 Feb 19. PMID: 35188106.
 10. Juneja M, Mohanty M, Jain R, Ramji S. Ages and Stages Questionnaire as a screening tool for developmental delay in Indian children. *Indian Pediatr*. 2012; 49:457-61.
 11. Majnemer A, Rosenblatt B. Reliability of parental recall of developmental milestones. *Pediatr Neurol*. 1994; 10(4):304-8. doi: 10.1016/0887-8994(94)90126-0. PMID: 8068156.
 12. Gulati S, Aneja S, Juneja M, Mukherjee S, Deshmukh V, Silberberg D, et al; INCLLEN Study Group. INCLLEN Diagnostic Tool for Neuromotor Impairments (INDT-NMI) for primary care physician: development and validation. *Indian Pediatr*. 2014 ;51(8):613-9. doi: 10.1007/s13312-014-0463-3. PMID: 25128993.
 13. Silberberg D, Arora N, Bhutani V, Durkin M, Gulati S. Neuro-Developmental Disorders in India-An INCLLEN Study (P04. 229).
 14. Mukherjee SB, Aneja S, Krishnamurthy V, Srinivasan R. Incorporating developmental screening and surveillance of young children in office practice. *Indian Pediatr*. 2014; 51(8):627-35. doi: 10.1007/s13312-014-0465-1. PMID: 25128995.
 15. Mukherjee SB, Agrawal D, Mishra D, Shastri D, Dalwai SH, Chattopadhyay N, et al. Indian Academy of Pediatrics position paper on nurturing care for early childhood development. *Indian Pediatr*. 2021; 58: 962-9.