



Ages & Stages Questionnaires® (ASQ®)

Articles endorsing Ages & Stages Questionnaires® as an accurate, cost-effective, parent-friendly instrument for screening and monitoring of preschool children:

- American Academy of Pediatrics. (2001). Developmental surveillance and screening of infants and young children. *Pediatrics*, *108*(1), 192–196.
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- Faruk T, King C, Muhit M, et al. (2020). Screening tools for early identification of children with developmental delay in low- and middle-income countries: A systematic review. *BMJ Open* 2020;10:e038182. doi: 10.1136/bmjopen-2020-038182
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- Kendall, S., Nash, A., Braun, A., Bastug, G., Rougeaux, E., & Bedford, H. (2019). Acceptability and understanding of the Ages & Stages Questionnaires, Third Edition, as part of the Healthy Child Programme 2-year health and development review in England: Parent and professional perspectives. *Child Care Health Development*, 45:251-256.
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- Lipkin, P., Geleske, T., & King, T. (2009). *Implementing developmental screening in the medical home* [PowerPoint slides]. Retrieved from <http://www.medicalhomeinfo.org/downloads/ppts/DPIPteleconference.ppt>
- Limbos, M., & Joyce, D. (2011). Comparison of the ASQ and PEDS in Screening for Developmental Delay in Children Presenting for Primary Care. *Journal of Developmental and Behavioral Pediatrics*, 32(7), 499–511.
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ASQ Review Articles

- Dahiya, A., DeLucia, E., McDonnell, C., & Scarpa, A. (2021). A systematic review of technical approaches for autism spectrum disorder assessment in children: Implications for the COVID-19 pandemic. *Research in Developmental Disabilities*. 109.103852. <https://doi.org/10.1016/j.ridd.2021.103852>
- Downs, S., Boddy, L., Bronagh, M., James, R et al., (2020). Motor competence assessments for children with intellectual disabilities and/or autism: a systematic review. *BMJ Open Sport & Exercise Medicine*. e000902.10.1136/bmjsem-2020-000902.
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review. *J Dev Behav Pediatr.* 42(6):490-501. doi: 10.1097/DBP.0000000000000940. PMID: 33990508.

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Psychometric studies:

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Astivia, O., Forer, B., Dueker, G., Cowling, C., & Guhn, M. (2017). The Ages and Stages Questionnaire: Latent factor structure and growth of latent mean scores over time. *Early Human Development* (115), 99-109.

Chen, C.Y., Xie, H., Clifford, J., Chen, C.I., Squires, J. (2018). Examining internal structures of a developmental measure using multidimensional item response theory. *Journal of Early Intervention*, 105381511878806. doi:10.1177/1053815118788063

Hornman, J., Kerstjens, J., De Winter, A., Bos, A. & Reijneveld, S. (2012). Validation of the Dutch 60 months ages and stages questionnaire (ASQ). *Archives of Disease in Childhood* 97(2), A499-A500.

Otalvarao, A., Granana, N., Gaeto, N. et al., (2018). ASQ-3: validación del Cuestionario de Edades y Etapas para la detección de trastornos del neurodesarrollo en niños argentinos. *Archivos Argentinos de Pediatría* 116(1):7-13.

Schonhaut, L., Martinez-Nadal, Sl., Armijo, Il, & Demestre, X. (2019). Reliability and agreement of Ages and Stages Questionnaires: Results in late preterm and term-born infants at 24 and 48 months. *Early Human Development* 128, 55-61.

Schonhaut et al., (2021). Predictive validity of developmental screening questionnaires for identifying children with later cognitive or educational difficulties: A systematic review. *Frontiers in Pediatrics*, 9:698549. doi: 10.3389/fped.2021.698549. PMID: 34900855; PMCID: PMC8651980.

Schonhaut, L., Perez, M., Armijo, I., & Maturana, A., (2020). Comparison between Ages & Stages Questionnaire and Bayley Scales, to predict cognitive delay in school age. *Early Human Development.* 41:104933. doi: 10.1016/j.earlhumdev.2019.104933.

Wheeler, A., Ventura, C., Ridenour, T., Toth, D., et al., (2018). Skills attained by infants with congenital Zika syndrome: Pilot data from Brazil. *PLOSOne.* 13(7): e0201495. <https://doi.org/10.1371/journal.pone.0201495>

Early detection of autism, joint committee for screening and diagnosis of autism and used for first level ASD screening:

- Alkherainej, K. & Squires, J. (2015). Accuracy of three screening instruments in identifying preschool children risk for autism spectrum disorder. *Journal of Intellectual Disability - Diagnosis and Treatment*.
- Filipek, P., Accadro, P., Ashwal, S, et al, (2000). Practice parameter: screening and diagnosis of autism: A report of the quality standards subcommittee of American Academy of Neurology and the Child Neurology Society. *Neurology*, 55, 468-479.
- Hardy, S., Haisley, L., Manning, C., & Fein, D. (2015). Can screening with the Ages and Stages Questionnaire detect autism? *Journal of Developmental and Behavioral Pediatrics*, 36(7), 536-543.
- Kelly, R., Boulin, A., Laranjo, N., Lee-Sarwar, K., et al., (2019). Metabolomics and communication skills development in children; Evidence from the Ages and Stages Questionnaire. *Metabolites*. doi:10.3390/metabo9030042.
- Oien, R., Schjolberg, S., Volkmar, F., Shic, F. et al., (2018). Clinical features of children with autism who passed 18-month screening. *Pediatrics*, 141(8). Doi.org/10/1542/peds.2017.3596.
- Shimoura, H., et al. (2022). Early developmental signs in children with autism spectrum disorders: results from the Japan Environment and Children's Study. *Children (Basel)*. 9(1):90. doi: 10.3390/children9010090. PMID: 35053715; PMCID: PMC8774672.

Recommended for general developmental follow-up:

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- Lipkin, P. (2006). *Moving Forward in Development Screening*. *Pediatric News*, 40(9), 34.
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- Thomas, S., Cotton, W., Pan, X., & Ratliff-Schaub, K. (2011). Comparison of systematic developmental surveillance with standardized developmental screening in primary care. *Clin Pediatr*, 51(2), 154–159.
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Used successfully for screening and developmental surveillance in office settings:

- Allen, S., Berry, A., Brewster, J., Chalasani, R., Mack, P. (2010). Enhancing developmentally oriented primary care: An Illinois initiative to increase developmental screening in medical homes. *Pediatrics*, (126), Supplement 3, S160-S164.
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- American Academy of Pediatrics. (2007). D-PIP Workshop 2007 Education Session. Screening tools: Those used and others to consider. Developmental Surveillance and Screening Policy Implementation project [PowerPoint slides]. Retrieved from <http://www.medicalhomeinfo.org/downloads/ppts/D-PIPWorkshop2007ToolsEducSession.ppt>
- American Academy of Pediatrics. (2011). Coding for pediatric preventive care 2011. *Bright Futures Prevention and Health Promotion for Infants, Children, Adolescents, and their Families*. Retrieved from http://brightfutures.aap.org/pdfs/Coding%20for%20preventive%20care_1pdf.pdf



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- Sices, L., Drotar, D., Keilman, A., Kirchner, L., Roberts, D., & Stancin, T. (2008). Communication about child development during well-child visits: Impact of parents' evaluation of developmental status screener with or without an informational video. *Pediatrics, 122*, 1091–1099.
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- Worcester, S. (2007, September). Ages and Stages' Screen Improves Referral Rates. *Pediatric News, 41*(9), 24–25.

Used successfully for follow up and assessment of premature and at-risk infants, randomized medical trials, and interventions related to developmental outcomes:

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- American Academy of Pediatrics. (2003). Identification of children <36 months at risk for developmental problems and referral to early identification programs. *Periodic Survey of Fellows. Executive Summary. Periodic Survey #53*. Retrieved from <http://www.aap.org/research/periodicsurvey/ps53exs.htm>
- Andersson, O., Lindquist, B., Lindgren, M., Stjernqvist, K., Domellöf, M., & Hellström-Westas, L. (2015). Effect of Delayed Cord Clamping on Neurodevelopment at 4 Years of Age. *JAMA Pediatrics, E1-E8*. doi:10.1001/jamapediatric.2015.0358
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Barreault, S., Bellanger, A., Berneau, P., Pintiere, A., et al. (2019). Impact of early protein and energy intakes on neurodevelopment at 2 years of corrected age in very low birth weight infants: A single-center observational study. *PLoS One*, 14(6):e0218887. doi: 10.1371/journal.pone.0218887. PMID: 31233553; PMCID: PMC6590817.

Baumgartel, K., Jensen, L., White, S., Wong, K., et al. (2020). The contributions of fetal growth restriction and gestational age to developmental outcomes at 12 months of age: A cohort study. *Human Development*. 142, 104591.

Bell, G., Sundaram, R., Mumford, S. Park H., et al., (2018). Maternal polycystic ovarian syndrome and early offspring development. *Human Reproduction*, 33, 1307–1315, <https://doi.org/10.1093/humrep/dey087>.

Berg, J., Isacson, M., Basnet, O., Gurung, R., et al. (2021). Effect of delayed cord clamping on neurodevelopment at 3 years: A randomized controlled trial. *Neonatology*. 118:282-288. doi: 10.1159/000515838.

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Borgstrom, K., Torki, J., & Lindsay, M. (2015). Substantial gains in word learning ability between 20 and 24 months: A longitudinal study. *Brain and Language*, 149, 33-45.

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Cakmak, M., Gollu, G., Ates, U., Ergun, E., et al. (2021). Hypospadias and use of Ages and Stages Questionnaires to evaluation neurodevelopmental status of boys with hypospadias. *European Journal of Pediatric Surgery*, 32(3):274-279. doi: 10.1055/s-0041-1723993.

- Carey E. et al., (2021). Evidence that infant and early childhood developmental impairments are associate with hallucinatory experiences. *Psychological Medicine, First View*, 1-9.
- Cheung, S., Neri, Q., Squires, J., Rosenwaks, Z., & Palermo, G. (2021). Assessing the cognitive and behavioral development of 3-year-old children born from fathers with severe male infertility. *American J. Obstetric and Gynecology*.223:508.e1-11.
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- Gleason, J. et al. (2021). Developmental outcomes in small-for-gestational twins using a singleton vs twin birthweight reference. *American Journal of Obstetrics and Gynecology*, 3:100465.
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