



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. <https://doi.org/10.1542/peds.108.1.192>
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- Chan, B., & Taylor, N. (1998). Follow along program cost analysis in southwest Minnesota. *Infants & Young Children*, *10*(4), 71–79. <https://doi.org/10.1097/00001163-199804000-00009>
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- Hanig, K. M. (2010). Review of Ages & Stages Questionnaires®: A Parent-Completed Child Monitoring System. In R.A. Spies, J.F. Carlson, & K. F. Geisinger (Eds.), *The eighteenth mental measurements yearbook*, 10–13.



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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. <https://doi.org/10.1111/cch.12639>
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- Mahajerin, A., Quigg, T. C., Sullivan, P. D., Pradhan, K., & Bauer, N. S. (2013). Ages and Stages Questionnaires-3 developmental screening of infants and young children with cancer. *Journal of Pediatric Oncology Nursing*. <https://doi.org/10.1177/1043454213493510>
- Radecki, L., Sand-Loud, N., O'Connor, K. G., Sharp, S., & Olson, L. M. (2011). Trends in the use of standardized tools for developmental screening in early childhood: 2002–2009. *Pediatrics*, 128(1), 14–19. <https://doi.org/10.1542/peds.2010-2180>



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- Vitrikas, K., Savard, D., & Bucaj, M. (2017). Developmental delay: When and how to screen. *American Family Physician*. 96(1), 36-43. <https://www.aafp.org/pubs/afp/issues/2017/0701/p36.html>
- Zubler, J. M., Wiggins, L. D., Macias, M. M., Whitaker, T. M., Shaw, J. S., Squires, J. K., Pajek, J. A., Wolf, R. B., Slaughter, K. S., Broughton, A. S., Gerndt, K. L., Mlodoach, B. J., & Lipkin, P. H. (2022). Evidence-informed milestones for developmental surveillance tools. *Pediatrics*, 149(3), Article e2021052138. <https://doi.org/10.1542/peds.2021-052138>

ASQ Review Articles

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- Downs, S. J., Boddy, L. M., McGrane, B., Rudd, J. R., Melville, C. A., & Fowweather, L. (2020). Motor competence assessments for children with intellectual disabilities and/or autism: a systematic review. *BMJ Open Sport & Exercise Medicine*. <https://doi.org/10.1136/bmjsem-2020-000902>
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Marks, K. P., Sjo, N. M., & Wilson, P. (2018). Comparative use of the Ages and Stages Questionnaires in the US and Scandinavia: a systematic review. *Developmental Medicine and Child Neurology*, 61(4), 419-430. <https://doi.org/10.1111/dmcn.14044>

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Singh, A., Yeh, C. J., & Blanchard, S. B. (2016). Ages and Stages Questionnaire: a global screening scale. *Hospital Infantil de Mexico*. 5-10. <https://doi.org/10.1016/j.bmhmx.2016.07.008>

Psychometric studies:

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Astivia, O. L., Forer, B., Dueker, G. L., 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. <https://doi.org/10.1016/j.earlhumdev.2017.10.002>

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Hornman, J., Kerstjens, J. M., De Winter, A. F., Bos, A. F. & Reijneveld, S. A. (2012). Validation of the Dutch 60 months ages and stages questionnaire (ASQ). *Archives of Disease in Childhood* 97(2), A499-A500. <http://dx.doi.org/10.1136/archdischild-2012-302724.1767>

Otalvarao, A. M., Granana, N., Gaeto, N., Gaeto, N., de Los A Torres, M., Zamblera, M. N., Vasconez, M. A., Misenta, C., Rouvier, M. E., & Squires, J. (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. <http://dx.doi.org/10.5546/aap.2018.7>

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. <https://doi.org/10.1016/j.earlhumdev.2018.11.008>

Schonhaut, L., Maturana, A., Cepeda, O., & Seron, P. (2021). Predictive validity of developmental screening questionnaires for identifying children with later cognitive or educational difficulties: A systematic review. *Frontiers in Pediatrics*, 9, Article 698549. <https://doi.org/10.3389/fped.2021.698549>

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, Article 104933. <https://doi.org/10.1016/j.earlhumdev.2019.104933>

Wheeler, A. C., Ventura, C. V., Ridenour, T., Toth, D., Nobrega, L. L., de Souza Dantas, L. C. S., Rocha, C., Bailey Jr, D. B., & Ventura, L. O. (2018). Skills attained by infants with congenital Zika syndrome: Pilot data from Brazil. *PLOSOne*. 13(7), Article 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*. 3(4), 156-163. <http://dx.doi.org/10.6000/2292-2598.2015.03.04.1>

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Recommended for general developmental follow-up:

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Glascoe, F. P. (2000). Evidence-based approach to developmental and behavioral surveillance using parents' concerns. *Child: Care, Health & Development*, 26(2), 137-149. <https://doi.org/10.1046/j.1365-2214.2000.00173.x>

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Thomas, S. A., Cotton, W., Pan, X., & Ratliff-Schaub, K. (2011). Comparison of systematic developmental surveillance with standardized developmental screening in primary care. *Clinical Pediatrics, 51*(2), 154–159. <https://doi.org/10.1177/0009922811420711>

Velikonja, T., Edbrooke-Childs, J., Calderson, A., Sled, M., Brown, A., & Deighton, J. (2017). The psychometric properties of the Ages & Stages Questionnaires for ages 2-2.5: a systematic review. *Child Care Health and Development, 43*(1), <https://doi.org/10.1111/cch.12397>

Used successfully for screening and developmental surveillance in office settings:

Allen, S. G., Berry, A. D., Brewster, J. A., Chalasani, R. K., & Mack, P. K. (2010). Enhancing developmentally oriented primary care: An Illinois initiative to increase developmental screening in medical homes. *Pediatrics, 126*, Supplement 3, S160-S164. <https://doi.org/10.1542/peds.2010-1466K>

American Academy of Pediatrics. (2006). Developmental screening tools. *Pediatrics, 118*(1), 410–413.

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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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Carroll, A. E., Bauer, N. S., Dugan, T. M., Anand, V., Saha, C., & Downs, S. M. (2014). Use of a Computerized Decision Aid for Developmental Surveillance and Screening: A Randomized Clinical Trial. *JAMA Pediatrics, 168*(9), 815-821 <https://doi.org/10.1001/jamapediatrics.2014.464>



- Charkaluk, M. L., Rousseau, J., Calderon, J., Bernard, J. Y., Forhan, A., Heude, B., Kaminski, M., & EDEN Mother-Child Cohort Study Group (2017). Ages and Stages Questionnaire at 3 years for predicting IQ at 5-6 years. *Pediatrics*, *139*(4), Article e20162798. <https://doi.org/10.1542/peds.2016-2798>
- Dunkle, M., & Hill, J. (2009). Developmental checkups for all children. Three good choices for practices and providers: ASQ, PEDS, and PEDS:DM. *AAP Section on Developmental and Behavioral Pediatrics Newsletter*, Spring 2009. <http://publichealth.lacounty.gov/cms/docs/ThreeGoodChoices.pdf>
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- Hunter, L. R., Myszkowski, M. R., Johnson, S. K., Rostad, P. V., Weaver, A. L. & Lynch, B. A. (2014). Comparing the clinical utility of the Infant Developmental Inventory with the Ages and Stages Questionnaire at 9 month well-child visits. *Journal of Primary Care & Community Health*, *6*(3), 193-198. <https://doi.org/10.1177/2150131914560228>
- Mathews, T., King, M. L., Kupzyk, K. A., & Lake, C. M. (2014). Findings and implications of developmental screening for high-risk children referred to a tertiary developmental disability center. *Journal of Pediatric Health Care*, *28*(6), 507-515. <https://doi.org/10.1016/j.pedhc.2014.03.002>
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- Szczepaniak, D., McHenry, M. S., Nutakki, K., Bauer, N. S., & Downs, S. M. (2013). The Prevalence of At-Risk Development in Children 30 to 60 Months Old Presenting With Disruptive Behaviors. *Clinical Pediatrics, 52*(10), 942-949. <http://doi.org/10.1177/0009922813493832>
- Worcester, S. (2007, September). Ages and Stages' Screen Improves Referral Rates. *Pediatric News, 41*(9), 24–25. <https://www.thefreelibrary.com/%27Ages+and+stages%27+screen+improves+referral+rates.-a0169459658>

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

- Adane, A. A., Mishra, G. D., & Tooth, L. R. (2018). Maternal preconception weight trajectories, pregnancy complications and offspring's childhood physical and cognitive development. *Journal of Developmental Origins of Health and Disease, 9*(6), 653-660. <https://doi.org/10.1017/s2040174418000570>
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- Asztalos, E. V., Hannah, M. E., Hutton, E. K., Willan, A. R., Allen, A. C., Armson, B. A., Gafni, A., Joseph, K. S., Ohlsson, A., Ross, S., Sanchez, J. J., Mangoff, K., & Barrett, J. F. R. (2016). Twin birth study: 2-year neurodevelopmental follow-up of randomized trial of planned cesarean or planned vaginal delivery for twin pregnancy. *American Journal of Obstetrics and Gynecology*, *214*(3), 371-372. <https://doi.org/10.1016/j.ajog.2015.12.051>
- Bandoli, G., Bertrand, K., Saor, M., & Chambers, C. D. (2020). The design and mechanics of an accessible human milk research biorepository. *Breastfeeding Medicine*, *15*(3), 155-162. <https://doi.org/10.1089/bfm.2019.0277>
- Barreault, S., Bellanger, A., Berneau, P., de la Pintiere, A., Lallemand, C., Beuchée, A. (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), Article e0218887. <https://doi.org/10.1371/journal.pone.0218887>
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In community day care settings:

Filgueiras, A., Pires, P., Landeira-Fernandez, J., (2014). Screening Measures Used in Child Daycare Centers: A 15-Years Systematic Review. *Psychology*, 5(19), 2109-2119. <http://dx.doi.org/10.4236/psych.2014.519213>

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