

Ages & Stages Questionnaires® (ASQ®)

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

- Alkhafaji, R.S., Harrison, J., et al. (2025). Psychiatric observational assessment of young children, *Child and Adolescent Psychiatric Clinics of North America*, https://doi.org/10.1016/j.chc.2024.08.002.
- American Academy of Pediatrics. (2001). Developmental surveillance and screening of infants and young children. *Pediatrics*, 108(1), 192–196.
- American Academy of Pediatrics. (2006). Identifying infants and young children with developmental disorders in the medical home: An algorithm for developmental surveillance and screening. *Pediatrics*, 118, 405–420.
- Aziizah, N., & Latifah, M. (2024). The influence of parenting style and stimulation on social-emotional development: Study of stunting and not stunting toddlers in Bogor Regency. *Journal of Family Sciences*. 9. 100-118. 10.29244/jfs.v9i1.52508.
- Bartlett, J. (2020). Screening for childhood adversity: Conclusions and recommendations. *Adversity and Resilience Science*, 1, 65–79. https://doi.org/10.1007/s42844-020-00004-8
- Beam, M., Kaiser, A., Paré, E., Schellenbach, C., & Murphy, M. (2015). Early developmental screening in high-risk communities: Implications for research and child welfare policy. *The Advanced Generalist: Social Work Research Journal*, 1(3/4), 18–36.
- Boyce, A. (2005). Review of the Ages and Stages Questionnaires. In B.S. Plake & J.C. Impara (Eds.), *The sixteenth mental measurements yearbook*, 31–366. Lincoln, NE: Buros Institute of Mental Measurements.
- Chan, B., & Taylor, N. (1998). Follow along program cost analysis in southwest Minnesota. *Infants & Young Children*, 10(4), 71–79.
- Cortez-Vergara, C., et al. (2025). Initial steps in the selection of a child development screening instrument in the Peruvian context. *Boletin Medicao del Hospital Infantil de México* Federico Gómez.82, Supl 1. https://www.bmhim.com/files/es/bmhim_25_82_supl1_025-035.pdf
- DeVeney, S., et al. (2025). A Scoping Review of Motor and Language Measurement Tools Used in Early Childhood Research. *Infants & Young Children* 38(1):p 56-73, January/March 2025. | DOI: 10.1097/IYC.000000000000282



- Dobrez, D., Sasso, A., Holl, J., Shalowitz, M., Leon, S., & Budetti, P. (2001). Estimating the cost of developmental and behavioral screening of preschool children in general pediatric practice. *Pediatrics*, 108(4), 913–922.
- Drotar, D., Stancin, T., & Dworkin, P. (2008). *Pediatric developmental screening: Understanding and selecting screening instruments.* The Commonwealth Fund. Retrieved from http://www.commonwelathfundlorg/publications.
- 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
- Guevara, J., Gerdes, M., Localio, R., Huang, Y., Pinto-Martin, J., Minkovitz, C., Hsu, D., Kyriakou, L., Baglivo, S., Kavanagh, J., & Pati, Susmita. (2013). Effectiveness of developmental screening in an urban setting, *Pediatrics*, 131(1):30-7. doi: 10.1542/peds.2012-0765. Epub 2012 Dec 17. PMID: 23248223.
- 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. Lincoln, NE: Buros Institute of Mental Measurements.
- Kallioinen, M., Eadon, H., Murphy, M., & Baird, G. (2017). Developmental follow-up of children and young people born preterm: Summary of NICE guidance. *BMJ*, 358, j3514, 1-6. (4-Year ASQ).
- 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.
- Kumar, A. (2022). Responding and identifying developmental delays in children. *International Journal of Innovative Science and Research Technology*, Volume 7, 7.
- Lamsal, R., Dutton, D., & Zwicker, J. (2018). Using the Ages and Stages Questionnaire in the general population as a measure for identifying children not at risk of a neurodevelopmental disorder. *BMC Pediatrics*. doi.org/10.1186/s12887-018-1105-z.
- 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.



- Marks, K.P., Glascoe, F.P., & Macias, M.M. (2011). Enhancing the algorithm for developmental–behavioral surveillance and Screening in children 0 to 5 years. *Clinical Pediatrics*, 2011 Sep;50(9):853-68. doi: 10.1177/0009922811406263.
- Marks, K., & LaRosa, A. (2012). Understanding developmental-behavioral screening measures. *Pediatrics in Review*, *33*(10), 448–458.
- McCoy, S., Bowman, A., Smith-Blockley, J., Sanders, K., Megens, A., & Harris, S. (2009). Harris Infant Neuromotor Test: Comparison of US and Canadian normative data and examination of concurrent validity with the Ages and Stages Questionnaire. *Physical Therapy*, 89(2), 173–180.
- Muthusamy, S., Wagh, D., Tan, J, Bulsara, M., Rao, S. (2020). Utility of the Ages and Stages Questionnaire to identify developmental delay in children aged 12 to 60 months: A systematic review and meta-analysis. *JAMA Pediatr*. 176(10):980–989. doi:10.1001/jamapediatrics.2022.3079
- Postlewaite, E., et al. (2024). Implementing the Ages and Stages Questionnaires in a Montessori setting. *Journal of Montessori Research*, Fall 2024. Vol 10, (2). 1-20.
- Quig, T., Mahajerin, A., Sullivan, P., Pradhan, K., & Bauer, N. (2013). Ages and Stages Questionnaires-3 developmental screening of infants and young children with cancer. *Journal of Pediatric Oncology Nursing*. DOI: 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.
- Ringwalt, S. (2008). *Developmental screening and assessment instruments*, Retrieved from http://www.nectac.org.
- Ronald, A., & Gui, A. (2024). The potential and translational application of infant genetic research. *Nat Genet*. https://doi.org/10.1038/s41588-024-01822-7
- San Antonio, M., Fenick, A., Shabanova, V., Leventhal, J., & Weitzman, C. (2014). Developmental screening using the Ages and Stages Questionnaire: Standardized versus real-world conditions. *Infants & Young Children*, 27(2), 111-119.
- Thomas, S., 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.
- U.S. Department of Health and Human Services (March, 2014). Birth to 5: Watch Me Thrive! A Compendium of Screening Measures for Young Children.



- Valleley, R. J., & Roane, B. 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*, 13–15. Lincoln, NE: Buros Institute of Mental Measurements.
- Vitrikas, K., Savard, D., & Bucaj, M. (2017). Developmental delay: When and how to screen. *American Family Physician*. 96(1): 36-43.
- Zhou, Z., Cao, Y., et al. (2023). Status of the neonatal follow-up system in China: survey and analysis. *World Journal of Pediatrics*. 10.1007/s12519-023-00742-6
- Zubler, J., Wiggins, L., Macias, M., ... Squires, J., et al. (2022). Evidence-informed milestones for developmental surveillance tools. *Pediatrics*, *149*(3): e2021052138. https://doi.org/10.1542/peds.2021-052138

ASQ Review Articles

- Cibralic, S., Hawker, P., Khan, F., et al. (2023). Developmental screening tools for identification of children with developmental difficulties in high-income countries: a systematic review. *Child and Adolescent Psychiatry*. Doi: 10.3389/frcha.2023.1074004
- 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 & amp; Exercise Medicine*. e000902.10.1136/bmjsem-2020-000902.
- Lamsal, R., Dutton, D., & Zwicker, J. (2018). Using the Ages and Stages Questionnaire in the general population as a measure for identifying children not at risk of a neurodevelopmental disorder. *BMC Pediatrics*, 18, 122. https://doi.org/10.1186/s12887-018-1105-z
- Marks, K., Sjo, N., & Wilson, P. (2018). Comparative use of the Ages and Stages Questionnaires in the US and Scandinavia: a systematic review. *Developmental Medicine and Child Neurology*, DOI: 10.1111/dmcn.14044.
- Rousseau, M., Dionne, C., Savard, R.T., Schonhaut, L., & Londono, M. (2021). Translation and cultural adaptation of the Ages and Stages Questionnaires (ASQ) worldwide: A scoping review. *J Dev Behav Pediatr*. 42(6):490-501. doi: 10.1097/DBP.0000000000000940. PMID: 33990508.



- Singh, A., Yeh, C., & Blanchard, S. (2016). Ages and Stages Questionnaire: a global screening scale. *Hospital Infantil de Mexico*. Masson Doyma Mexico SA, 5-10.
- Velikonja, T., Edbrooke-Childs, J., Calderson, A., Sleed, M., et al. (2017). The psychometric properties of the Ages & Stages Questionnaires for ages 2-2.5: a systematic review. *Child Care Health and Development.* 43(1), DOI: 10.111/cch.12397. Epub2016Aug24.

Psychometric studies:

- Agarwal, H., Xie, A., et al. (2024). Concurrent validity of the ages and stages questionnaires with Bayley Scales of Infant Development-III at 2 years Singapore cohort study. *Pediatrics and Neonatology*, DOI: 10.1016/j.pedneo.2023.03.013
- Alvarez-Nunez, L., Gonzalez, M., Rudnitzky, F., & Vasquez-Echeverria, A. (2021). Psychometric properties of the ASQ-2 in a nationally representative sample of Uruguay. *Early Human Development*, 157, 105367, https://doi.org/10.1016/j.earlhumdev.2021.105367.
- 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., et al. (2023). Developmental and social-emotional screening: What tests can tell us. *Infants & Young Children, 36* (4), 285-295.
- 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
- Gulati, S., et al. (2023). Socio-cultural adaptation of the Ages and Stages Questionnaires (ASQ) with Indian children ages 2 to 24 months. *Indian Pediatrics*, 60, 908-912.
- 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.
- Mexawa, H., Oda, M., Nakayama, S., & Mitsubuchi, H. (2019). Psychometric profile of the Ages and Stages Questionnaires Japanese translation. *Pediatrics International*. DOI: 10.1111/ped.13990.
- 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 argentines. *Archivos Argentinos de Pediatria 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. *PLOS One*. 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*.
- DuBay, M., Lee, H., & Palomo, R. (2023). Evidence map of Spanish language parent- and self-report screening and diagnostic tools for autism spectrum disorder. *Research in Autism Spectrum Disorders*, 102, 102–117. https://doi.org/10.1016/j.rasd.2023.102117
- 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.
- Valdez, M., et al. (2022). Autism spectrum disorder screening practices in the United States and Mexico. *Contemporary Research in Disability and Rehabilitation*, 3, (2), 1-20.

Recommended for general developmental follow-up:

- Abdelbaky, O., Deifallah, S., et al. (2022). Screening for developmental delays in children 2-36 months of age in a primary health care center in Cairo, Egypt. *Journal of High Institute of Public Health*. OI: 10.21608/JHIPH.2022.254505.
- Ahsan, S., Murphy, G., Kealy, S., & Sharif, F. (2008). Current developmental surveillance: Is it time for change? *The Irish Medical Journal*, 101(4), 110-2.
- Arruda, W., et al. (2023). Promoting optimal mental health outcomes for children and youth. *Paediatrics & Child Health*, Volume 28, Issue 7, November 2023, Pages 417–425, https://doi.org/10.1093/pch/pxad032
- Costa, B., White, P., et al. (2022). Parent-reported socioemotional and cognitive development of children with a cleft lip and/or palate at 18 months: Findings from a UK birth cohort. *Child Care Health Development*, 47:31-39.
- Glascoe, F. P. (2000, March). Evidence-based approach to developmental and behavioral surveillance using parents' concerns. *Child: Care, Health & Development*, 26(2), 137–149.
- Karam, F., Chambers, C., Johnson, D., Kao, K et al. (2015). The ASQ and R-PDQ telephone-administered validation within the OTIS antidepressant in pregnancy study. Psychological Assessment, 27(4), 1507-1512.
- Lipkin, P. (2006). Moving Forward in Development Screening. Pediatric News, 40(9), 34.
- Macy, M. (2012). The evidence behind developmental screening instruments. *Infants and Young Children*, 25(1), 16-61.
- Manasyan A, Salas AA, Nolen T, et al. (2023). Diagnostic accuracy of ASQ for screening of neurodevelopmental delays in low resource countries. *BMJ Open*; 13:e065076. doi:10.1136/bmjopen-2022-065076
- Pinto-Martin, J., Dunkle, M., Earls, M., Fliedner, D., & Landes, C., (2004). Developmental stages of developmental screening: Steps to implementation of a successful program. *American Journal of Public Health*, *95*(11), 6–10.



- Pizur-Barnekow, K., Erickson, S., Johnston, M., Bass, T., Lucinski, L., & Bleuel, D. (2010). Early identification of developmental delays through surveillance, screening, and diagnostic evaluation. *Infants & Young Children*, 23(4), 323–330.
- 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.
- Velikonja, T., Edbrooke-Childs, J., Calderson, A., Sleed, M., et al. (2017). The psychometric properties of the Ages & Stages Questionnaires for ages 2-2.5: a systematic review. *Child Care Health and Development.* 43(1), DOI10.111/cch.12397. Epub2016Aug24

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.
- American Academy of Pediatrics. (2006). Developmental screening tools. *Pediatrics*, 118(1), 410–413.
- 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
- Bevan, S., Liu, J., Wallis, K., & Pinto-Martin, J. (2020). Screening instruments for developmental and behavioral concerns in pediatric Hispanic populations in the United States: Systematic literature review. *Journal of Developmental and Behavioral Pediatrics*, 41: 71-80.
- Carroll, A., Bauer, N.; Dugan, T, Anand, V., Saha, C., & Downs, S (2014). Use of a Computerized Decision Aid for Developmental Surveillance and Screening: A Randomized Clinical Trial. JAMA Pediatrics. doi:10.1001/jamapediatrics.2014.464.
- Charkaluk, M., Kana, G.D., Benhammou V., et al. (2024). Neurodevelopment at age 5.5 years according to Ages & Stages Questionnaire at 2 years' corrected age in children born preterm: the EPIPAGE-2 cohort study. *Archives of Disease in Childhood Fetal and Neonatal Edition* Published Online doi: 10.1136/archdischild-2023-325928



- Charkaluk, M., Rousseau, J., Calderon, J., Bernard, J., Forhan, A., Heude, B., & Kaminski, M., (2017). Ages and Stages Questionnaire at 3 years for predicting IQ at 5-6 years. *Pediatrics*, 139 (4), e20162798.
- 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*.
- Dunkle, M., & Vismara, L. (2003). A different kind of test. Policy strategies to improve identification of disabilities in children, especially through primary care screening. Retrieved from http://www.aap.org/sections/dbpeds/pdf/A%20Different%20Kind%20of%20Test.pdf
- Earls, M., & Hay, S. (2006). Setting the stage for success: Implementation of developmental and behavioral screening and surveillance in primary care practice. *The North Carolina Assuring Better Child Health and Development (ABCD) Project, 118*(1), 183–188.
- Glascoe, F., & Squires, J. (2002). Different screens, different results: What does this mean for primary care? *Pediatrics*, 109, 1181–1183.
- Hamilton, S. (2006). Screening for developmental delay: Reliable, easy-to-use tools. *Journal of Family Practice*, 55, 415–422.
- Hix-Small, H., Marks, K., Squires, J., & Nickel, R. (2007). Impact of implementing developmental screening at 12 and 24 months in a pediatric practice. *Pediatrics*, 120(2), 381–389.
- Hunter, L., Myszkowski, M., Johnson, S., Rostad, P., Weaver, Am & Lynch, B. (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*. DOI: 10.1177/2150131914560228, 1-6.
- Jaswa, E., et al. (2024). In utero exposure to maternal COVID-19 vaccination and offspring neurodevelopment at 12 and 18 months. *JAMA Pediatrics*. doi:10.1001/jamapediatrics.2023.5743
- Mathews, T., King, M.L., Kupzyk, K., & Lake, C. (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.
- 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, 14–19.



- Roan, B., Valleley, R., & Allen, K. (2012). Impact of Ages and Stages Questionnaires scores on pediatrician referral patterns. *Infants and Young Children*, 25:2, 149-157.
- Sices, L., Stancin, T., Kirchner, L., & Bauchner, H. (2009). PEDS and ASQ developmental screening tests may not identify the same children. *Pediatrics*, 124(4), 640–647.
- 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.
- Szczepaniak, D., Mchenry, M., Nutakki, K., Bauer, N., & Downs, S. (2013). The Prevalence of At-Risk Development in Children 30 to 60 Months Old Presenting With Disruptive Behaviors. *Clinical Pediatrics*, 942-949. doi:19.1177/0009922813493832
- 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:
- Adane, A., Mishra, G., & Tooth, L., (2018). Maternal preconception weight trajectories, pregnancy complications and offspring's childhood physical and cognitive development. Journal of Developmental Origins of Health and Disease, doi.org/1017/S2040174418000570.
- Al-Saleh, I., et al. (2023). Exposure of preterm neonates receiving total parenteral nutrition to phthalates and its impact on neurodevelopment at the age of 2 months. *Scientific Reports* 13, 6969/https://doi.org/10.1038/s41598-023-33715-w
- Alvarado-Domenech, L. (2022). Early childhood developmental outcome after prenatal Zika virus exposure: a cohort study in Puerto Rico. *Journal of Pediatrics*. https://doi.org/10.1016/j.jpeds.2022.05.016
- 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



- Anis, L., et al. (2020). Effects of attachment and child health parent training on parent-child interaction quality and child development. *Canadian Journal of Nursing Research*. 52(2):157-168. doi:10.1177/0844562119899004
- Asztalos, E., Hannah, M, Hutton, E., Willan, A. (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*, 214:371-372.
- Atlan, A., et al. (2024). Neurodevelopmental outcome in children between one and five years after persistent pulmonary hypertension of term and near-term newborns. *Frontiers in Pediatrics*.12. 10.3389/fped.2024.1450916
- Bandoli, G., Bertrand, K., Saoor, M., & Chambers, C. (2020). The design and mechanics of an accessible human milk research biorepository. *Breastfeeding Medicine*, *15*(3), DOI: 10.1089/bfm.2019.0277.
- Bahadur, E., Yilmaz, M., & Ozdemir, A. (2023). Behavior problems in preschools with developmental language disorder. *Turkish Journal of Pediatric Disease*, 10.12956/tchd.1298463
- 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.
- Baysal, S., et al. (2023). Neurodevelopment of patients who received intravitreal bevacizumab or aflibercept for type 1 and aggressive retinopathy of prematurity. *European Journal of Ophthalmology*. doi:10.1177/11206721231200666
- 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.
- Beaugrand, M., et al. (2023). Lack of association between behavioral development and simplified topographical markers of the sleep EEG in infancy. *Neurobiology of Sleep and Circadian Rhythms*, 15 10098.
- 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.
- Benzies, K. M., Bartram, F. C., & McNeil, D. A. (2025). Effect of model of neonatal care on neurodevelopment at the 18 month follow-up in moderate and late preterm infants. *Journal of Clinical Medicine*, 14(2), 586. https://doi.org/10.3390/jcm14020586



- 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.
- Bergh, E., Rennie, K., et al. (2024). Use of internet-based surveys to collect long-term pediatric outcomes in patients with twin-twin transfusion syndrome treated with fetoscopic laser photocoagulation JMIR Pediatrics and Parenting. 03/07/2024:60039 DOI: 10.2196/60039
- Bernard, J., Armand, M., Garcia, C., Forhan, A., Agostini, M., Charles, M., & Heude, B. (2015). The association between linoleic acid levels in colostrum and child cognition at 2 and 3 y in the EDEN cohort. *Pediatric Research*, 77(6), 829-835.
- Blomkvist, E., Hillesund, E., Sissel, H., Simhan, I., & Overby, N. (2019). Diet and neurodevelopment score in a sample of one-year-old children—A cross-sectional study. *Nutrients*, 11(7), 1676
- Borgstrom, K., Torki, J., & Lindsay, M. (2015, February). Event-related potentials during word mapping to object shape predict toddlers' vocabulary size. *Frontiers in Psychology 6*, 000143.
- 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.
- Borren, I., Tambs, K., Gustavon, K., Schjolberg, S., et al. (2018). Early prenatal explore to pandemic influenza A (H1N1) infection and child psychomotor development at 6 months—A population-based cohort study. *Early Human Development*, 122, 1-7.
- Brittain, A.K., et al. (2022) Impact of adverse childhood experiences on women's psychosocial and HIV-related outcomes and early child development in their offspring, *Global Public Health*, 17:11, 2779-2791, DOI: 10.1080/17441692.2021.1986735
- 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.
- Chen, G., et al. (2024). Hypertensive disorders of pregnancy, neonatal outcomes and offspring developmental delay in Japan: The Tohoku Medical Megabank Project Birth and Three-Generation Cohort Study. *Acta Obstetrics and Gynecology, Scandanavia*. DOI: 10.1111/aogs.14820O.
- Chen, Y., et al. (2023). Maternal thyroid dysfunction and neuropsychological development in children, *The Journal of Clinical Endocrinology & Metabolism*, Volume 108, Issue 2, 339–350, https://doi.org/10.1210/clinem/dgac577



- 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.
- Chorna, L., Baldwin, S., Neumaier, J., et al. (2016). Feasibility of a team approach to complex congenital heart defect neurodevelopmental follow-up. *Circulation: Cardiovascular Quality and Outcomes*. Doi: 10.1161.CIRCOUTCOMES.116.002614.
- Coe, J., et al. (2020). Intergenerational effects of maternal childhood experiences on maternal parenting and infant development. *Journal of Developmental and Behavioral Pediatrics*, 41(8):619-627. doi: 10.1097/DBP.0000000000000835. PMID: 33064399; PMCID: PMC7573193.
- Connery, A., et al. (2023). The influence of socio-demographic factors and caregiver report of infant developmental status. *Frontiers in Pediatrics*. DOI 10.3389/fped.2022.1080163
- Correia, L., et al. (2023). Associations between chronotype, sleep quality, maternal mental health, and child development in mother-infant dyads, *Sleep Medicine*, *Volume 106*, 90-96.
- Del Valle, F., Ruiz, A., Cilia, A., Gonzalez, A. et al. (2019). Neurodevelopment medium-term outcomes after parechovirus infection. *Early Human Development*, 132, 1-5.
- Demestre, X., Schonhaut, J., Morillas, J., Martinez-Nadal, S., Vila, C., Raspall, F., & Sala, P. (2016). Development deficit risks in the late premature newborn: Evaluation at 48 months using the Ages & Stages Questionnaires. *An Pediatr (Barc).*, 84 (1), 39-45.
- Deng, Y., et al. (2025). Association of early life exposure to PM2.5 and its components with offspring neurodevelopment: A prospective birth cohort study, *Environmental Research*, Volume 266, 120552.
- Deussen, A.R., Louise, J., & Dodd, J.M. (2022). Childhood follow-up of the GRoW randomized trial: Metformin in addition to dietary and lifestyle advice for pregnant women with overweight or obesity. *Pediatric Obesity*. e12974. doi:10.1111/jjpo.12974
- Dewi, M., et al. (2025). The association of vitamin D, nerve growth factor (NGF), brain-derived neurotrophic factor (BDNF), and glial cell-derived neurotrophic factor (GDNF) with development in children. *Children*. *12(1)*, *60*; https://doi.org/10.3390/children12010060
- Dong, R., Wu, Y., Chen, J., Wu, M., et al. (2019). Lactational exposure to phthalates impaired the neurodevelopmental function of infants at 9 months in a pilot prospective study. *Chemosphere* 226, 351-359,
- D'Souza, E. et al. (2022). Increased breastfeeding proportion is related to increased gross motor functioning at 3-5 years of age: A pilot study. *Pediatric Nutrition*, 14(11).2215



- Duggan, C., et al. (2023). ASQ-3 and BDI-III's concurrent validity and predictive validity at cognitive outcome at 5 years. *European Society for Pediatric Research*. https://doi.org/10.1038/s41390-023-02528-y
- Dutta, H. (2023). Ages and Stages Questionnaires: Feasibility of online survey for postshunt hydropeephalus follow-up. *Indian Journal of Neurosurgery*. 10.1055/s-0043-1775972
- Dwipoerwantoro, P., Mansyur, M., Oswar, H., Makrides, M., Cleghorn, G., & Firmansyah, F. (2015). Growth of Indonesian infants compared with health organization growth standards. *Journal of Pediatric Gastroenterology and Nutrition, (61)*2, 248-252.
- Eom, S., Dezort, C., Fisher, B., Zelko, F., & Berg, A. (2015). A simple behavioral-developmental checklist versus normal screening for children in an epilepsy center. Epilepsy & Behavior, 46, 84-87.
- Ezatpanah, N., et al. (2023). Prevalence of developmental delay in 12-month-old infants, Urban Health Centers, Shadid Beheshti University, Tehran, Iran, 2018-2019. *Journal of Comprehensive Pediatrics*. Vol.14, issue 1; e, 126319.
- Fajardo-Martinez et al. (2024). Neurodevelopmental delay in children exposed to maternal SARS-CoV-2 in utero. *Nature: Scientific Reports*. https://doi.org/10.1038/s41598-024-61918-2
- Fauls, J., Thompson, B., & Johnston, L. (2020). Validity of the Ages and Stages Questionnaire to identify young children with gross motor difficulties who require physiotherapy assessment. *Dev Med Child Neurol*. 62(7):837-844. doi: 10.1111/dmcn.14480.
- Fitzpatrick C., Johnson A., Laurent A., Bégin, M., & Harvey, E. (2024). Do parent media habits contribute to child global development contribute to child global development. *Front. Psycho*.14:1279893. https://doi.org/10.3389/fpsyg.2023.1279893
- Flamant, C., Branger, B., Tich, S., Rocheborchard, E., Savagner, C. et al. (2011). Parent-completed developmental screening in premature children: A valid tool for follow-up programs. *PloS ONE*, *6*(5), e20004. Dol:10.137.journal/pone.0020004.
- Forns, J., Iszatt, N., White, R.A., Mandal, S., Sabaredzovic, A., et al. (2015). Perfluoroalkyl substances measured in breast milk and child neuropsychological development in a Norwegian birth cohort study. *Environmental International*, 83, 176-182.
- Fourdain, S., Caron-Desrochers, L., et al. (2020). Impacts of an interdisciplinary developmental follow-up program on Neurodevelopment in congenital heart disease: CINC Study. *Frontiers in Pediatrics*, 8:539451. doi: 10.3389/fped.2020.539451. PMID: 33123502; PMCID: PMC7573208.



- Frisk, V., Lee, E., Green, P., & Whyte, H. (2004). Deciding on a screening test for medically-atrisk Children: An evidence-based approach. *IM Print, Infant Mental Health Promotion Project Newsletter*, 40, British Columbia, Canada.
- Gallardo-Ridriguez, R., et al. (2023). Parent-perceived child development in preschoolers engaging in play that includes physical activity. *International Journal of Human Development and Sport Sciences 11*(4).803-811.

 DOI: 10.13189/saj.2023.110414.
- Garrido Torres, N., Román-Jarrín, et al.(2024). Impact of Maternal Stress and COVID-19 Exposure During Pregnancy on Offspring Neurodevelopment: Signature Cohort 12 Month Follow-Up. 10.21203/rs.3.rs-5442190/v1.
- Girchenko, P., Lahti-Pulkkinen, M., Hämäläinen, E. et al. (2024). Associations of polymetabolic risk of high maternal pre-pregnancy body mass index with pregnancy complications, birth outcomes, and early childhood neurodevelopment: findings from two pregnancy cohorts. *BMC Pregnancy Childbirth* 24, 78 https://doi.org/10.1186/s12884-024-06274-9
- Girchenko, P., Polina, M., et al. (2020). Persistently high levels of maternal antenatal inflammation are associated with and mediate the effects of prenatal environmental adversities on neurodevelopmental delay in the offspring. *Biological Psychiatry*, 187(10), 898-907.
- 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.
- Goldfeld, S., et al. (2022). Integrated child and family hub models for detecting family adversity: a protocol for mixed-methods evaluations in two sites. *BMJ Open.* 2022;12:e055431. doi:10.1136/bmjopen-2021-055431
- Gollenberg, A., Lynch, C. Jackson, L., McGuinness, B., & Msall, M. (2010). Concurrent validity of the parent-completed Ages and Stages Questionnaires, 2nd Ed. with the Bayley Scales of Infant Development II in a low-risk sample. *Child: care, health, and development, 36*(4), 485–490.
- Guo, X. et al. (2022). Effects of single and combined exposure to lead and stress during pregnancy in offspring neurodevelopment. *Developmental Cognitive Neuroscience*, 56:101124. doi: 10.1016/j.dcn.2022.101124.
- Hahn, A., Garbacz, L., & Lemanek, K. (2020). Utility of the Ages and Stages Questionnaire, Third Edition, in a comprehensive sickle cell disease clinic. *Clinical Practice in Pediatric Psychology*, 8, 1, 56-66.



- Halbwachs, M., Muller, J, Tich, S., Gascoin, G. et al. (2014). Predictive value of the parent-completed ASQ for school difficulties in preterm-born children >35 weeks' GA at five years of age, *Neonatology*, 106; 311-316.
- Hanf, Nusinovici, S., Rouger, V., Olivier, M. et al. (2017). Cohort Profile: Longitudinal study of preterm infants in the Pays de al Loire region of France (LIFT cohort). *International Journal of Epidemiology*, 1306,139hh
- Hart, A., Embleton, N., Bradburn, M. et al. (2019) Accuracy of in-utero MRI to detect fetal brain abnormalities and prognosticate developmental outcome: Postnatal follow-up of the MERIDIAN cohort. *The Lancet Child and Adolescent Health*. orcid.org/0000-0002-3783-9761
- Hendricks, M. (2022). Nurture intervention on neurodevelopmental outcome among pre-term neonates: Application of child health assessment interaction mode in nursing research. *Indian Journal of Continuing Nursing Education*. 23(1), 6-11.
- Henjum, S., Kvestad, I., Shrestha, M., et al. (2018). Erythorcyte DHA and AA in infancy is not associated with developmental status and cognitive functioning five years later in Napalese children. *Nutrition Journal*, 17(70), 1-9.
- Hernandez-Castro, I., et al. (2024). Prenatal exposures to organophosphate ester metabolites and early motor development in the MADRES cohort, *Environmental Pollution*, *342*, doi.or/10.1016.j.enpol.123131.
- Hill, K., Bailey, J., et al. (2020). Outcomes of childhood preventive intervention across two generations. *JAMA Pediatr.* 174(8):764-771
- Hillen, T., Gafson, L., Drage, L., & Conlan, L. (2012). Assessing the prevalence of mental health disorders and mental health needs among preschool children in care in England. *Infant Mental Health Journal*, 33(4), 411–420.
- Hirai, H., et al. (2024). Relationships between maternal consumption of fermented foods and the development of offspring at age of 3: Japan Environment and Children's Study. *PLOS ONE*. https://doi.org/10.1371/journal. pone.0305535
- Hoffman, M., et al. (2024). Neurodevelopment of children whose mothers were randomized to low-dose aspirin during pregnancy. *Obstetrics & Gynecology*, 143 (4), 554-561.
- Holt, C., et al. (2021). Improving the mother-infant relationship following postnatal depression: a randomized controlled trial of a brief intervention (HUGS). *Archives of Women's Mental Health*, 24:910-923.
- Hua, J., Barnett, A., et al. (2022). Association of gestational age at birth with subsequent neurodevelopment in early childhood: A national retrospective cohort study in China.



- Front Pediatrics 10:860192. doi: 10.3389/fped.2022.860192. PMID: 35712637; PMCID: PMC9194570.
- Huang, H., et al. (2023). Differential associate relationship between neurodevelopmental outcome in preterm infants<29 weeks gestation. *Early Human Development*, Vol 186, 10859.
- Husebye, E., Gilhus, N., Riedel, B., et al. (2018). Verbal abilities of children of mothers with epilepsy: Association to maternal folate status. *Neurology*, doi:10.1212/WNL.00000000000000073.
- Husebye, E., Gilhus, N., Sprigset, O., Dalveit, A., et al. (2020). Language impairment in children aged 5-8 after antiepileptic drug exposure in utero—the Norwegian Mother-Child Cohort Study. *European Journal of Neurology*, 27:667-675. doi:10.1111/ene.14140
- Husebye, E., Wendel, A., et al. (2022). Plasma unmetabolized folic acid in pregnancy and risk of autistic traits and language impairment in antiseizure medication-exposed children of women with epilepsy. *American Journal of Clinical Nutrition*, 115(5):1432-1440. doi: 10.1093/ajcn/nqab436. PMID: 34994378; PMCID: PMC9071448.
- Hussain, N., et al. (2021). An integrated parenting intervention for maternal depression and child development in low-resource setting: Cluster randomized controlled trial. *Depression and Anxiety*, 38 (1). DOI: 10.1002/da.23169.
- Hutchison, L., Stewart, A., Mitchell, E. (2009). Characteristics, head shape measurements and developmental delay in 287 consecutive infants attending a plagiocephaly clinic. *Acta Paediatrica*, 98(9), 1494–1499.
- Hutchison, L., Stewart, A., Mitchell, E. (2011). Deformational plagiocephaly: a follow-up of head shape, parental concern and neurodevelopment at ages 3 and 4 years. *Archives of Diseases in Childhood*, *96*, 85–90.
- Hutchison, L., Stewart, A., de Chalain, T., & Mitchell, E. (2011). Serial developmental assessments in infants with deformational plagiocephaly. Journal of Paediatrics and Child Health, 48(3), 274-278.
- Hyde, A., et al. (2021). The Fort McMurray Mommy Baby Study: A protocol to reduce maternal stress due to 2016 Fort McMurray Wood Buffalo. *Frontiers in Public Health*, *9*, 601375.
- Inoue, H., Sanefuji, M., Sonoda, Y., et al. (2022). No association between prenatal lead exposure and neurodevelopment during early childhood in the Japan Environment and Children's Study. *Scientific Reports*, 12, 15305. https://doi.org/10.1038/s41598-022-19509-6
- Islam, A., et al. (2022). Forced displacement, mental health, and child development: Evidence from the Rohingya refugees. *SocArXiv Papers*. https://doi.org/10.31235/osf.io/b4fc7



- Ishikawa, K., et al. (2022). Intergeneration transmission of adverse childhood experiences on the next generation's development. *Frontiers in Psychology, 13*. DOI=10.3389/fpsyg.2022.852467
- Jackson, R., et al. (2024). Association of antenatal or neonatal SARS-COV-2 exposure with developmental and respiratory outcomes, and healthcare usage in early childhood: a national prospective cohort study. *eClinicalMedicine*,72: 102628
- Jaramillo, V., et al. (2023). An infant sleep electroencephalographic marker of thalamocortical connectivity predicts behavioral outcome in late infancy. *NeuroImage*. DOI: 10.1016/j.neuroimage.2023.119924.
- Jee, S., Szilagyi, M., Ovenshire, C., Norton, A., Conn, A., Blumkin, A., & Szilagyi, P. (2010). Improved detection of developmental delays among young children in foster care. *Pediatrics*, 125(2), 282–289.
- Jensen, C., et al. (2023). Human perception and machine vision reveal rich latent structure in human figure drawing. *Frontiers in Psychology*. 103389/fpsyg.2023.10290808
- Jiang, C., Li, X., Du, B.C., et al. (2024). Role of home nurturing environment on early childhood neurodevelopment: a community-based survey in Shanghai, China. *BMC Pediatr* 24, 721 https://doi.org/10.1186/s12887-024-05190-3
- Jiang, N., et al. (2025). Intimate partner violence during pregnancy and early offspring development: A prospective birth cohort study. *Biological Psychiatry*, DOI: 10.1016/j.biopsych.2025.03.020
- Jin, Y., Coad, J., et al. (2020). Mother and infant nutrition investigation in New Zealand (MINI Project). *JMIR Research Protocols*. 10.2196/18560.
- Johnson S.B., Kuehn M., Lambert J.O., et al. (2024). Developmental milestone attainment in US children before and during the COVID-19 pandemic. *JAMA Pediatrics*. Published online April 22, 2024. doi:10.1001/jamapediatrics.2024.0683
- Jung, J., Cattan S., et al. (2024). Early child development in England: cross-sectional analysis of ASQ-3 records from 2-.2.5 year universal health visitor review using national administrative data. *MedRxiv*. **doi:** https://doi.org/10.1101/2024.09.28.24314205.
- Kapp-Simon, K.A., Albert, M., Edwards, T.C., et al. (2024). Developmental risk for infants with cleft lip with or without cleft palate based on caregiver-proxy reports. *The Cleft Palate Craniofacial Journal*. 0(0). doi:10.1177/10556656231225304
- Karbanda, E., Vazquez-Benitez, G., Kunin-Baston, et al. (2020). Birth and early developmental screening outcomes associated with cannabis exposure during pregnancy. *Journal of Perinatology*. https://doi.org/10.1038/s41372-019-0576-6.



- Kavousipor, S., Rassafiani, M., et al. (2020). Influence of home affordances on motor skills in 3-18 month old Iranian children. *Early Child Development and Care*. 191:16, 2626-2633, DOI: 10.1080/03004430.2020.1727463.
- Kelly, R., Lee-Sarwar, K., et al. (2022). Maternal inflammatory biomarkers during pregnancy and early life neurodevelopment in offspring: Results from the VDAART Study. *International Journal of Molecular Sciences*, 23, 15249.
- Kerstjens, J.M., de Winter, A.F., Bocca-Tjeertes, I.F., Bos, A.F., & Reijneveld, S.A. (2012). Risk of developmental delay increases exponentially as gestational age of preterm infants decreases: A cohort study at age 4 years. Developmental Medicine & Child Neurology, 54, 1096-1101.
- Kerstjens, J.M., de Winter, A.F., Bocca-Tjeertes, I.F., ten Vergert, E.M.J., Reijneveld, S.A., & Bos, A.F. (2011). Developmental delay in moderately preterm-born children at school entry. *The Journal of Pediatrics*, 159(1), 92–98.
- Kerstjens, J.M., de Winter, A.F., Sollie, K.M., Bocca-Tjeertes, I.F., Potjik, M.,R., Reijneveld, S.A., & Bos, A.F. (2013). Maternal and pregnancy-related factors associated with developmental delay in moderately preterm-born children. *Obstetrics & Gynecology*, *121* (4), 727–733.
- Kim, K., & Choi, J. (2020). Associations between breastfeeding and cognitive function in children from early childhood to school age. *International Breastfeeding Journal*, 15:83.
- Klamer, A., Lando, A., Pinborg, A., & Greisen, G. (2005). Ages & stages questionnaire used to measure cognitive deficit in children born extremely preterm. *Acta Paediatrica*, 94, 1327–1329.
- Konduri, K., & Joshi, K. (2024). Risk of developmental delay in infants born to perinatal COVID-19 positive mothers in a tertiary care hospital: cross-sectional study. *Annals of Child Neurology*; 32(4):232-237 https://doi.org/10.26815/acn.2024.00619
- Kuehn, L.M., Jones, A., Helmkamp, L., Knudtson, M., Domek, G.J., & Allison, M.A. (2023). Socioemotional development of infants and toddlers during the COVID-19 pandemic. *JAMA Pediatrics*. Published online December 26, 2023. doi:10.1001/jamapediatrics.2023.5684
- Kwun, Y., Park, H., Kim, M., Lee, B., & Kim, E. (2015). Validity of the Ages and Stages Questionnaires in Korean compared to Bayley Scales of Infant Development-II for screening preterm infants at corrected age of 18-24 months for neurodevelopmental delay. *Journal of Korean Medical Science*, 30(4), 450-455. doi:10.3346/jkms.2015.30.4.450
- Kvestad, I., et al. (2021). Maternal cod intake during pregnancy and infant development in the first year of life: Secondary analyses from RTC. *Journal of Nutrition*, April, 1.



- Lannon, C., Flower, K., Duncan, P., Moore, K., Stuart, J., & Bassewitz, J. (2008). The bright futures training intervention project: Implementing systems to support preventive and developmental services in practice. *Pediatrics*, 122, 163–171.
- Legro, R., Diamond, M., et al. (2020). Pregnancy registry: three-year follow-up of children conceived from letrozole, clomiphene, or gonadotropins. *Fertility and Sterility,* 113(5):1005-1013. doi: 10.1016/j.fertnstert.2019.12.023. PMID: 32386612; PMCID: PMC7376442.
- Leniz-Maturana, et al. (2023). Positive parenting and sociodemographic factors of Chilean children born to adolescent mothers. *Children. 10*, 1778. https://doi.org/10.3390/children10111778
- Letts, E., et al. (2023). Investigating the validity of the Ages and Stages Questionnaires to detect gross motor delays in a community sample of toddles: A cross-sectional study. *Early Human Development*, 187. doi.org/10.1016/j.earlhumdev.2023.105882.
- Lepine, J., et al. (2021). Utility of the Ages and Stages Questionnaires 3rd edition for developmental screening of children with surgically repaired congenital heart disease. Developmental Neurorehabilitation, 25(2). ttps://doi.org/10.1080/17518423.2021.1960918
- Letourneau, N., et al. (2023). Impacts of the Attachment and Child Health (ATTACHTM) parenting program on mothers and their children at risk of maltreatment: Phase 2 results. *Int J Environ Res Public Health.* 9;20(4):3078. doi: 10.3390/ijerph20043078
- Li, Q., et al. (2024). Association of gestational cardiovascular health with infant neurodevelopment: A prospective study in Hefei of Anhui, China. *Preventive Medicine Reports*. 39, 10286.
- Liang, C., Wu, X., Huang, K., Yan, S., et al. (2020). Domain- and sex-specific effects of prenatal exposure to low levels of arsenic on children's development at 6 months of age: Findings from the Ma'anshan birth cohort study in China. *Environment International*, 135, 105112.
- Lindsay, N., Healy, G., Colditz, P. & Lingwood, B. (2008). Use of the Ages & Stages Questionnaire to predict outcome after hypoxic-ischaemic encephalopathy in the neonate. *Journal of Paediatrics and Child Health*, 44, 590–595.
- Liu, Y, Chang, C., et al. (2023). The relationships between early childhood development and feeding practices during the dietary transitional period in rural China: a cross-sectional study. *Front. Public Health*, https://doi.org/10.3389/fpubh.2023.1202712
- Long, D., Minogue, J. et al. (2024). Neurodevelopmental outcome and quality of life in children admitted to the paediatric intensive care unit: A single-centre Australian cohort study. *Australian Critical Care*, https://www.australiancriticalcare.com/article/S1036-7314(24)00087-0/fulltext



- Lopez-Morales, H., et al. (2023). The relationships between early childhood development and feeding practices during the dietary transitional period in rural China: a cross-sectional study. Front. *Public Health*, 10.1007/s00431-023-05112-y
- Ma, G., et al. (2023). Early stimulation and responsive care: a mediator of caregivers' depression on the suspected developmental delay of left-behind children in China. *Journal of Affective Disorders*, Volume 341, 88-95, https://doi.org/10.1016/j.jad.2023.08.118.
- MacDonald, S., et al. (2024). Outcomes of patients supported by mechanical ventilation and their families two months after discharge from pediatric intensive care unit. *Front. Pediatrics*, 12. https://doi.org/10.3389/fped.2024.1333634
- Madigan, S., Browne, D., Racine, N., Mori, C., & Tough, S. (2019). Association between screen time and children's performance on a developmental screening test. *JAMA Pediatrics*, 173, 3, 244-250.
- Maher, G., O'Keeffee, G., O'Keeffee, L., Matvienko-Sikar, K. et al. (2020). Association between preclampsia and childhood development and behavioral outcomes. *Maternal and Child Health Journal*, 24:727-738.
- Mari, G. & Keizer, R., (2021). Parental job loss and early child development in the Great Recession. *Child Development*, 1-19.
- Marinho, A.R., Correia, D., Bernard, J.Y. et al. (2023). Macronutrient intake during infancy and neurodevelopment in preschool children from the EDEN mother–child cohort. *Eur J Clin Nutr* 77, 668–676 https://doi.org/10.1038/s41430-023-01273-z
- Marks, K., Hix-Small, H., Clark, K. & Newman, J. (2009). Lowering developmental screening thresholds and raising quality improvement for preterm children. *Pediatrics*, 123, 1516–1523.
- Matsumura, K., Hamazaki, Kl, et al. (2020). Prospective association or air-purifier usage with infant neurodevelopment: Nationwide longitudinal study-Japan. Journal of Clinical Medicine. 10.3390/jcm9061924
- McArthur, B.A., Tough, S., & Madigan, S. (2021). Screen time and developmental and behavioral outcomes for preschool children. *Pediatr Res.* https://doi.org/10.1038/s41390-021-01572-w.
- Midavaine, M., Vinit, N., et al. (2024). Complex trajectories are associated with neurological impairment in infants with congenital gastrointestinal malformations aged two. *Acta Paediatr.* 2024; 00: 1–7. https://doi.org/10.1111/apa.17523
- Mirzakhani, H., Kelly, R., et al. (2020). Stability of developmental status and risk of impairment at 24 and 36 months in late preterm infants. *Infant Behavior and Development*, (60). 101462.



- Moe, A., Kurilova, J., et al. (2022). Effects of Alberta Family Integrated Care (FICare) on preterm infant development. *Journal of Clinical Medicine*, 11, 1684.
- Momany, A.M., Jasper, E., Markon, K.E., Nikolas, M.A. & Ryckman, K.K. (2022). Latent class analysis to characterize neonatal risk for neurodevelopmental differences. *J Child Psychol Psychiatr*. https://doi.org/10.1111/jcpp.13671
- Monteith, C., Flood, K. Pinnamaneri, R., Levine, T., et al. (2019). An abnormal cerebroplacental ratio (CPR) is predictive of early childhood delayed neurodevelopment in the setting of fetal growth restriction. *American Journal of Obstetrics and Gynecology*, 221(3):273.e1-273.e9. doi: 10.1016/j.ajog.2019.06.026.
- Moreau, M., Remy, M., Nusinvici, S., Rouger, V., et al. (2019). Neonatal and neurodevelopmental outcomes in preterm infants according to maternal body mass index: A prospective cohort study. *PLoS ONE* 14 (12): e0225027. https://doi.org/10.1371/journal.pone.0225027.
- Morrakotkhiew, W., et al. (2021). Early developmental outcomes in children born to mothers with obstructive sleep apnea. *Sleep Medicine*, 88, 90-95.
- Motoki, N., et al. (2022). Impact of maternal dyslipdemia in infant neurodevelopment. The Japanese environment and children's study. *Brain and Development*. https://doi.org/10.1016/j.braindev.2022.05.002.
- Mulder, H. et al. (2022). Infant walking experience is related to development of selective attention. *Journal of Experimental Child Psychology*, 220, 105425. https://doi.org/10.1016/j.jecp.2022.105425.
- Muller, J., Bureau Rouger, V., Ngyuen the Tich, S., & Roze, J. (2014). Predictive value of the parent-completed ASQ for school difficulties in preterm-born children <35 weeks GA at five years of age. Neonatology. DOI: 10.1159/000363216.
- Nagai, T., Yoda, Y., Tokuda, N., et al. (2024). Association between general anesthesia in early childhood and neurodevelopment up to 4 years of age: the Japan Environment and Children's Study. *J Anesth*. https://doi.org/10.1007/s00540-024-03359-9
- Navalon, P. Ghosn, et al. (2022). Temperamental and psychomotor predictors of ADHD symptoms in children born after a threatened preterm labour; 6 year followup study. *European Child & Adolescent Psychiatry*. Doi/org/10.1007/S00787-022002073-9.
- Nazarpour, S., Ramezani Tehrani, F., Sajedi, F., et al. (2023). Lack of beneficiary effect of levothyroxine therapy of pregnant women with subclinical hypothyroidism in terms of neurodevelopment of their offspring. *Arch Gynecol Obstet* https://doi.org/10.1007/s00404-023-06954-5



- Nguyen, D., Ee, J., Berry-Caban, C., Hoedebecke, K. (2014). The effects of military deployment on early child development. *Army Medical Department Journal*, October-December, 81-86.
- Nicolaus, C., Kress, V., Kopp, M., & Niegel, S. (2021). The impact of parental relationship satisfaction on infant development: Results from Population-based Cohort Study DREAM. *Frontiers in Psychology, 12*, Article 667577.
- Nishihara, S., Kobayashi, S., et al. (2022). Association between maternal caffeine intake during pregnancy and child development at 6 and 12 months: The Japan Environment and Children's Study, *Early Human Development*, *171*, https://doi.org/10.1016/j.earlhumdev.2022.105607.
- Niu, J., Liang, H., Tian, Y., Yuan, W. et al. (2019). Prenatal plasma concentrations of Perfluoroalkyl and polyfluoroalkyl substances and neuropsychological development in children at four years of age. *Environmental Health*. 18, (53). 8:53.doi.org/10.1186/s12940-019-0493-3.
- Noeder, M., Logan, B., Struemph,, K, Condon, N., Mueller, I. et al. (2017). Developmental screening in children with CHD: Ages and Stages Questionnaires. *Cardiology in the Young*, doi:10.1017/S1047951117000415.
- Ochandorena-Acha, M., Terradas-Monllor, et al. (2022). "Early Physiotherapy Intervention Program for Preterm Infants and Parents: A Randomized, Single-Blind Clinical Trial" Children 9, no. 6: 895. https://doi.org/10.3390/children9060895
- O'Leary, C., Zubrick, S., Taylor, C., Dixon, G., & Bower, C. (2009). Prenatal alcohol exposure and language delay in 2-year-old children: The importance of dose and timing on risk. *Pediatrics*, 123, 547–554.
- Oliva-Arnanz, A. et al. (2021). Families' perceptions of the motor development and quality of life of their children ages 0-3 during home confinement due to COVID-10 Pandemic. *Children*, 8, 1149, 8121149.
- Onyango, S., et al. (2023). Maternal stimulation and early childhood development in sub-saharan Africa: evidence from Kenya and Zambia. *BMC Public Health*. https://doi.org/10.1186/s12889-023-17235-w
- Palermo, G., Neri, Q., Takeuchi T, Squires, J., & Rosenwaks, Z. (2008). Genetic and epigenetic characteristics of ICSI children. *Reproductive BioMedicine Online*, 17(6), 820-833.
- Peyre, Hl., Albaret, J-M., Bernard, J., Hoertel, N., Melchior, et al. (2019). Developmental trajectories of motor skills during the preschool period. *European Child & Adolescent Psychiatry*, 28, 1461-1474.
- Peyre, H., Hoertel, N., Bernard, J., & Ramus, R., et al. (2018). Sex differences in psychomotor development during the preschool period: A longitudinal study of the effects of



- environmental factors and of emotional, behavioral, and social functioning. *Journal of Experimental Child Psychology*, 178.
- Pierrat, P., Marchand-Martin, L., Arnaud, C., Kaminski, M., et al. (2017). Neurodevelopmental outcome at 2 years for preterm children born at 22 to 34 weeks' gestation in France in 2011: EPIPAGE-2 cohort study. *BMJ*;358:j3448 | doi: 10.1136/bmj.j3448
- Plomgaard A., Hansen B., & Greisen G. (2006). Measuring developmental deficit in children born at gestational age less than 26 weeks using a parent-completed developmental questionnaire. *Acta Paediatrica*, 95(11), 1488–1494.
- Ponjaert, I., Tjus, T., Nekkebroeck, J., Squires, J., Verte, D., & Heimann, M., Bonduelle, M., Palermo, G., & Wennerholm, U. B. (2004). Psychological follow-up study of 5-year-old ICSI children. *Human Reproduction*, 19(12), 2791-2797.
- Pontoppidan, M., Nygaard, L., et al. (2024). Effects of child development and parent-child interaction of the FACAM Intervention: A randomized controlled study of an interdisciplinary intervention to support women in vulnerable positions through pregnancy and early motherhood. *International Journal of Environmental Research and Public Health*, 21, 587. Doi.or/10.3390/ijerph21050587.
- Potijk, M., Kerstjens, J., Bos, A, Reijneveld, S, & Winter, A. (2013). Developmental delay in moderately pre-term born children with low socioeconomic status: Risks multiply. *Journal of Pediatrics*. DOI: 10.1017/jpeds.2013.07.001.
- Putnick, D., Bell E., et al. (2022). Associations of toddler mechanical/stress feeding problems with psychopathology symptoms five years later. *The Journal of Child Psychology and Psychiatry*. doi:10.1111/jcpp.13567
- Read, J., Ridout, D., Johnson, S., et al. (2022). Postoperative morbidities with infant cardiac surgery and toddlers' neurodevelopment. *Archives of Disease in Childhood*, 107:922-928.
- Riberio, L., et al. (2022). Socioeconomic disparities in early language development in two Norwegian samples. *Applied Developmental Science*. DOI: 10.1080/10888691.2022.2051510.
- Rodriguez-Rabassa, M., Appleton, A., et al. (2024). Association between the social environment and early childhood development outcomes of Puerto Rican children with prenatal Zika virus exposure: a cross-sectional study. *BMC Pediatrics*, 24:342 https://doi.org/10.1186/s12887-024-04806-y
- Roe, E., Jensen, L., et al. (2022). Charting developmental trajectories from 12 to 26 months and associated early risk and protective factors. *Australasian Journal of Early Childhood*. Vol 0 (1-18).



- Roze, J. et al. (2020). Effects of early targeted treatment of ductus arteriosus with Ibuprofen on survival without cerebral palsy at 2 years in infants with extreme prematurity: A randomized clinical trial. *Journal of Pediatrics*. 10.1016/j.jpeds.2020.12.008.
- Sabarigirivasan, V., Read, J.S., Ridout, D., et al. (2024). Ages and Stages Questionnaires in the assessment of young children after cardiac surgery. *Cardiology in the Young*. Published online 2024:1-8. doi:10.1017/S1047951124026477
- Sadhwani, A., Asaro, L.A., Goldberg, C.S., et al. (2022). Impact of tight glycemic control and hypoglycemia after pediatric cardiac surgery on neurodevelopmental outcomes at three years of age: Findings from a randomized clinical trial. *BMC Pediatr 22*, 531 https://doi.org/10.1186/s12887-022-03556-z
- Sanefuji, M., Senju, A., Shimono, M., Ogawa, M., et al. (2021). Breast feeding and infant development in a cohort with sibling pair analysis in the Japan environment and children's Study. *BMJ Open Access*.11:e043202. doi:10.1136/bmjopen-2020-043202.
- Schoch, S. et al. (2021). From alpha diversity to Zzz: Interactions among sleep, the brain, and gut microbiota in the first year of life. *Progress in Neurobiology*, 102208.
- Schonhaut, L., Armijo, I., Perez, M., (2015). Gestational age and developmental risk in moderately and late preterm and early term infants. *Pediatrics*, 135, 4, e835e841.
- Schonhaut, L., Armijo, I., Schönstedt, M., Álvarez, J., & Cordero, M. (2013). Validity of the Ages and Stages Questionnaires in term and preterm infants. *Pediatrics*, *131*, e1468.
- 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*. 104933.
- Senat, MV., Bussières, L., Couderc, S., Roume, J., Rozenberg, P., Bouyer, J., & Ville, Y. (2007). Long-term outcome of children born after a first-trimester measurement of nuchal translucency at the 99th percentile or greater with normal karyotype: A prospective study. *American Journal of Obstetrics & Gynecology*, 196(1), 53.e1–53.e6.
- Shah, S., Jeong, K., Park, H, Hong, Y., et al. (2020). Environmental pollutants affecting children's growth and development: Collective results from the MOCEH study, a multicentric prospective birth cohort in Korea. *Environment International*, 137(105547).
- Shao, S., Zhang, Y., Liu, J., et al. (2024). Glucocorticoid use and varying doses on the long-term outcomes of offspring born to patients with systemic lupus erythematosus. *Eur J Pediatr* https://doi.org/10.1007/s00431-024-05462-1
- Shi, Y., Zhang, Y., et al. (2022). Longitudinal association between maternal psychological stress during pregnancy and infant neurodevelopment: The moderating effects of responsive caregiving. *Frontiers in Pediatrics*. 10.3389/fped/2022.1007507.



- Shiva, S., Khanzadeh, S., Shohanizad, V., Ghaedi, A., & Lucke-Wold, B. (2023). Change in prevalence of meningitis among children with febrile seizure after the pentavalent vaccination. *J Exp Neurol.* 4(3):100-108.
- Shojaeian, N. et al. (2021). Does maternal exercise program affect infants' development? A randomized control trial number 1. *Journal of Exercise and Health Science*, 1(03), 53-66.
- Shorey S., et al. (2023). Evaluating the effects of the Supportive Parenting App on infant developmental outcomes: Longitudinal study. *JMIR Mhealth*; 11:e43885 doi: 10.2196/43885
- Shuffray, L. et al. (2022). Association of birth during the COVID-19 pandemic with neurodevelopmental status at 6 months in infants with and without in utero exposure to maternal SARS-CoV-2 infection. *JAMA Pediatrics*, 2021.5563.
- Silock, R. et al. (2021). Parechovirus infection in infants: Evidence based parental counselling for paediatrians. *Journal of Paediatrics and Child Health*, doi.org/10.1111/jpc.15859.
- Simard, M., Luu, T., & Gosselin, J. (2012). Concurrent validity of Ages and Stages Questionnaires in preterm infants. *Pediatrics*. 130(1):e108-e14.
- Simcock, G., Kildea, S., Kruske, S., Laplante, D., et al. (2018). Disaster in pregnancy: midwifery continuity positively impacts infant neurodevelopment, QF2011 study. *BMC: Pregnancy and Childbirth* 18:309.
- Skellern, C., Rogers, Y., & O'Calliaghan, M. (2001). A parent-completed developmental questionnaire: Follow up of ex-premature infants. *Journal of Paediatrics & Child Health*, 37(2), 125–129.
- Skellern, C.Y., & O'Callaghan, M. (1999). Parent-completed questionnaires: An effective screening instrument for developmental delay in follow-up of ex-premature infants. *Journal of Pediatrics & Child Health*, 35(5), A2.
- Skovlund, E., Handal, M., Selmer, R., Brandlistuen, R., & Skurtveit, S., (2017). Language competence and communication skills in 3-year-old children after prenatal exposure to analgesic opioids. *Pharmacoepidemiology and Drug Safety*. 26: 625-634
- Skovlund, E., Selmer, R., et al. (2020). In utero exposure to analgesic opioids and language development in 5-year old children. *Pharmacoepidemiology and Drug Safety*. 10:1002/pds/5009.
- Solgi, M., et al. (2024). Predictors of early intervention referral after a positive developmental screen in community primary care clinics *Academic Pediatrics*. https://doi.org/10.1016/j.acap.2024.10.003.Volume 25, Issue 3.



- Sprowles, J., et al. (2022). Prenatal phthalate exposure in 4.5 and 7.5 month infants. *Neurotoxicology and Teratology*. 92.107102.
- Squires, J., Carter, A., & Kaplan, P. (2003). Developmental monitoring of children conceived by ICSI and IVF. *Fertility and Sterility*, 79(2), 453–454.
- Squires, J.K., Carter, A., & Kaplan, P.F. (2001). Developmental monitoring of children conceived by ICSI and IVF. *Fertility & Sterility*, 76(3), Supplement 1:S145–S146.
- Squires, J.K., Kaplan, P.F., & Carter, A.M. (2000). Developmental Monitoring of ICSI/IVF Offspring. *Fertility & Sterility*, 73(4), Supplement 1:14S.
- Stevens, C. et al. (2021). Parent-administered neurodevelopmental follow up...after picornavirus CNS infections. *Pediatric Infection Disease Journal*, 10.197.Inf. 0000000003192.
- Stephenson N.L., et al. (2023). Early childhood trajectories of domain-specific developmental delay and gestational age at birth: An analysis of the All Our Families cohort. *PLOS ONE 18*(12): e0294522. https://doi.org/10.1371/journal.pone.0294522
- Synnøve, E., Husebye, N., et al. (2023). Does maternal genetic liability to folate deficiency influence the risk of antiseizure medication-associated language impairment and autistic traits in children of women with epilepsy? *The American Journal of Clinical Nutrition*, 118, 1. https://doi.org/10.1016/j.ajcnut.2023.05.023.
- Talmi, A., Bunik, M., Asherin, R., Rannie, M., Watlington, T., Beaty, B., & Berman, S. (2014). Improving developmental screening documentation and referral completion. *Pediatrics*, 134 (4), pp.e1181-8.
- Takahashi, I., et al. (2023). Screen time at age 1 and communication and problem-solving developmental delay at 2 and 4. *JAMA Pediatrics*. doi:10.1001/jamapediatrics.2023.3057
- Takahashi, N., Shoji, H., et al. (2022). Effect of biotin supplementation of infant formula: A multi-center study in Japan. *Pediatrics International*. https://doi.org/10.1111/ped.15359
- Titmus, A. et al. (2022). Hyperglycemia in pregnancy and developmental outcomes in children ages 18-60 months. *Developmental Origins of Health and Disease*, 1-11. doi:10.1017/S2040174422000101
- Toizumi, M., Nguyen, G., Motomura, H., Nguyen, T. et al. (2017). Sensory defects and developmental delay among children with congenital rubella syndrome. *Scientific Reports*, 7:46483.
- Toussaint, E. & Rousseau, D. (2023). PEGASE Program: Identification of babies in the child protection system at risk of developmental delays or disorders and the implementation of a 'supra-optimal' care pathway. *Child Abuse Review*, 32(1), e2805.



- Troller-Renfree, S., Hart, E., Sperber, J., Fox, N., & Noble, K. (2022). Associations among stress and language and socioemotional development in a low-income sample. *Development and Psychopathology*, 34(2), 597-605. doi:10.1017/S0954579421001759
- Troude, P., Squires, J., L'Hélias, L., Bouyer, J., & de La Rochebrochard, E. (2011). Ages and Stages Questionnaires: Feasibility of postal surveys for child follow-up. *Early Human Development*, 87(10), 671–676.
- Tuovinen, S. et al. (2021). Effect of high-dose vs standard-dose vitamin D supplementation of healthy term infants; a randomized clinical trial. *JAMA Network Open.* 4(9):e2124493.
- Turedi, B., et al. (2024). Neurodevelopmental evaluation of children who were operated due to congential anomaly with the ASQ and ASQ:SE. *Pediatric Surgery International*, 40:47. Doi.or/10/1007/s00383-023-05625-5.
- Tuyisenge, V., et al. (2023). Screening for developmental delay in urban Rwandan children: a cross-sectional study. *BMC Pediatrics*. https://doi.org/10.1186/s12887-023-04332-3
- Valla, L., Wentzel-Larsen, T., & Slinning, K. (2022). Sleep problems reduced from 6-25 months of age with no evidence of links between disturbed sleep and developmental problems. *Acta Paediatrica*. DOI: 10.1111/apa/16313.
- Vedel, C., Larsen, H., Holmskov, A., Andreasen, K., et al. (2020). Neonatal complications and neurophysiological development in twins—a long-term follow-up study. *Journal of Maternal-Fetal & Neonatal Medicine*. https://doi.org/10.1080/14767058.2020.1718647
- Veldman, S., Jones, R., Chandler, P., Robinson, L., et al. (2020). Prevalence and risk factors of gross motor development in preschoolers. *Journal of Paediatrics and Child Health*. https://doi.org/10.1111/jpc.14684
- Veldhuizen, S., Bedard, Cl., Rodriguez, C., Cairney, J. (2017). Psychological distress and parent reporting on child health: The case of developmental delay. *Research in Developmental Disabilities*, 63, 11-17.
- Veldhuizen, S., Clinton J., Rodriguez, C., Wade, T.J., & Cairney, J. (2015). Concurrent validity of the Ages and Stages Questionnaires and Bayley Developmental Scales in a general population sample. *Academic Pediatrics*, 15(2):231-7.
- Vejrup, K., Agnihotri, N., Bere, E., et al. (2022). Adherence to a healthy and potentially sustainable Nordic diet is associated with child development in The Norwegian Mother, Father and Child Cohort Study (MoBa). *Nutr J* 21, 46. https://doi.org/10.1186/s12937-022-00799-5
- Wang, C., McGlynn, E., Brook, R., Leonard, C., Piecuch, R., Hsueh, S., & Schuster, M. (2006). Quality of care indicators for the neurodevelopmental follow-up of very low birth weight children: Results of an expert panel process. *Pediatrics*, 117, 2080–2092.



- Wang, K., Qi, Y., et al. (2022). Responsive caregiving and opportunities for early learning associate with infant development: Results from a prospective birth cohort in China. *Front.Pediatrics*. doi.org/10.3389/fped.2022.85710.
- Wang, L. et al. (2022). Parental self-perception, parental investment, and early childhood development outcomes: Evidence from rural China. *Frontiers in Public Health*. doi: 10.3389/fpubh.2022.820113.
- Wang, Q., Gao, W., Duan, Y., et al. (2024). Exploring predictors of interaction among low-birth-weight infants and their caregivers: a machine learning—based random forest approach. *BMC Pediatr* 24, 648, https://doi.org/10.1186/s12887-024-05080-8.
- Wang, Y., Chen, L., Wu, T., Shi, H., et al. (2020). Impact of Covid-19 in pregnancy on mother's psychological status and infant's neurobehavioral development: a longitudinal cohort study in Chine. *BMC Medicine*. DOI: 10.1186/s12916-020-01825-1.
- Wang, X., et al. (2023). The association between maternal urinary Bisphenol A levels and neurodevelopment at age 2 years in Chinese boys and girls: A prospective cohort study, *Ecotoxicology and Environmental Safety, Vol* 264, 115413.
- Watts, D., Lebel, C., et al. (2024). Evaluation of the association between prenatal cannabis use and risk of developmental delay. *JAACAP Open*, https://www.jaacapopen.org/article/S2949-7329(24)00041-3/fulltext.
- Wei, Q. et al. (2022). Associations of maternal prenatal emotional symptoms with neurodevelopment of children and the neonatal meconium microbiota: A prospective cohort study. *Psychoneuroendocrinology*, 142, 105787.
- Wei, Q., Zou, J. et al. (2023). Prospective associations between various prenatal exposures to maternal psychological stress and neurodevelopment in children within 24 months after birth, *Journal of Affective Disorders*, Volume 327, 101-110.
- Wheeler, A., Ventura C., Ridenour, T., Toth, D., et al. (2018). Skills attained by infants with congential Zika syndrome: Pilot data from Brazil. *PLOS One 13*(7): e0201495.
- Wilson, E., Green, J., & Weismer, G. (2012). A kinematic description of temporal characteristics of jaw motion for early chewing: Preliminary findings. *Journal of Speech, Language, and Hearing Research* (55), 626-638.
- Woodward, B.J., Papile, L-A, Lowe, J.R., Laadt, V.L., Shaffer, M.L., Montman, R., et al. (2011). Use of the Ages and Stages Questionnaire and Bayley Scales of Infant Development-II in neurodevelopmental follow-up of extremely low birth weight infants. Journal of Perinatology. 2011;31(10):641-6.



- Wray, J., Ryde, M., Butler, C., & Hewitt, R. (2019). Quality of life can be good after slide tracheoplasty for long-segment tracheal stenosis. *Interactive CardioVascular and Thoracic Surgery*. doi: 10.1093/icvts/ivz194.
- Wu, T., et al. (2022). Effects of SARS-CoV-2 infection during late pregnancy on early childhood development: A prospective cohort study. *Frontiers in Pediatrics*. doi 10.3389/fped/2021.750012.
- Yadama, A.P., Kelly, R.S., Lee-Sawar, K., Mirzakhani, H., et al. (2020). Allergic disease and low ASQ communication scores in children. *Brain, Behavior, and Immunity, 83*, 293-297. doi: 10.1016/j.bbi.2019.10.008.
- Yang, C., Xue, X., Feng, J., Jia, F., et al. (2019). Gross motor developmental dysfunctional outcomes in infantile and toddler pediatric intensive care unit survivors, *BMC Pediatrics*. https://doi.org/10.1186/s12887-019-1893-9.
- Yeung, E., Sundaram, R., Ghassabian, A., Xie, Y., & Louis, G.B. (2017). Parental obesity and early childhood development. *Pediatrics* (2), e20161459.
- Yousefichaijan, P., et al. (2023). Development indicators, according to Ages and Stages questionnaire, in children with infrequent voiding. Zahedan *J Res Med Sci.* https://doi.org/10.5812/zjrms-131229
- Zachry, A., et al. (2021). The Early STEPS Pilot Study: The impact of a brief consultation session on self-reported parenting satisfaction. *Maternal and Child Health Journal*, 25:1923-1929.
- Zengin-Akkus, P., Hizal, M., Bahadur, E., et al. (2019). Developmental and behavioral problems in preschool-aged primary ciliary dyskinesia patients. *European Journal of Pediatrics*. DOI: 10.1007/s00431-019-03382-z.
- Zhang, J., Cao, M., et al. (2022). Exploring effect of Postdischarge Developmental Support Program on preterm Care: *Advances in Neonatal Care*. 10.97/ANC.00000000001046.
- Zhang, D., Lan, Y., Zhang, J. *et al.* (2024). Effects of early-life gut microbiota on the neurodevelopmental outcomes of preterm infants: a multi-center, longitudinal observational study in China. *European Journal of Pediatrics*. https://doi.org/10.1007/s00431-024-05423-8
- Zhou, L., Qiu, W., et al. (2023). Effects of vaginal microbiota transfer on the neurodevelopment and microbiome of cesarean-born infants: A blinded randomized controlled trial. *Cell Host & Microbe*, 10.1016/j.chom.2023.05.022
- Zhu, Y., et al. (2023). Identification and prediction model of placenta-brain axis genes associated with neurodevelopmental delay in moderate and late-preterm children. *BMC Medicine* 21:326https://doi.org/10.1186/s12916-023-03023



- Used successfully for screening and follow-up of children in foster care, public health, hospital, infant mental health, and day care, Early Head Start community settings:
- Archer-Kuhn, B., et al. (2023). Survey of mothers' experiences of shared parenting and domestic violence. *Family Court Review*, *61*, 2 https://doi.org/10.1111/fcre.12715
- Baggett, K., Warlen, L., Hamilton, J. Roberts, J., & Staker, M. (2007). Screening infant mental health indicators: An Early Head Start initiative, Infants & Young Children, 20(4), 300–310.
- Chiu, S., & DiMarco, M. (2010). A pilot study comparing two developmental screening tools for use with homeless children. *Journal of Pediatric Health Care: Official Publication of National Association of Pediatric Nurse Associates & Practitioners*, 24(2), 73–80.
- Duley, L. (2006). The Magpie Trial: A randomized trial comparing magnesium sulphate with placebo for pre-elcampsia. Outcome for children at 18 months. *British Journal of Obstetrics and Gynaecology*. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/17166221.
- Fernald, L, Stewart, C., Galasso, Em., & Weber, A. (2016). A cluster-randomized, controlled trial of nutritional supplementation and promotion o responsive parenting in Madagascar: the MAHAY study design and rationale. *BMC Public Health* (16:466).
- Filgueiras, A., Pires, P., & Landeira-Fernandez, J. (2014). Screening measures used in child daycare centers: A 15-Years systematic review. *Psychology*, *5*, 2109-2119.
- Gibb, R. et al. (2021). Promoting executive function skills in preschoolers using a play-based program. *Frontiers in Psychology*, 720225.
- Handal, A., Lozoff, B., Breilh, J., & Harlow, S. (2007). Effects of community residence on neurobehavioral development in infants and young children in flower-growing region of Ecuador. *Environmental Health Perspectives*, 115(1), 128–133.
- Harris, D., Weston, P., et al. (2024). Relationship between neonatal cerebral fuels and neurosensory outcomes at 3 years in well babies: Follow-up of the Glucose in Well Babies (GLOW) study. *Neonatology* 2024; https://doi.org/10.1159/000538377
- Harris, J., & Norton, M. (2016). The Quick Peek Program: A Model for developmental screening in underserved communities. *Infants & Young Children*, 29(4),290-298.
- Hartman, C., Richards, J., et al. (2022). Cohort Profile Update: The TRacking Adolescents' Individual Lives Survey—The Next Generation (TRAILS NEXT), *International Journal of Epidemiology*, Volume 51, Issue 5, Pages e267–e275, https://doi.org/10.1093/ije/dyac066
- Henriksen, C., Haugholt, K., Lindgren, M., Aurvag, A., Ronnestad, A., Gronn, M., et al. (2008). Improved cognitive development among preterm infants attributable to early



- supplementation of human milk with docosahexaenoic acid and arachidonic acid. *Pediatrics*, 121(6), 1137–1145.
- Huberman, H. (2000). A randomized clinical control trial examining the feasibility of three different approaches to periodic screening of at-risk children. Study supported by the Maternal and Child Health Bureau. New York: Medical and Health Research Association of New York City, Inc.
- Jensen, S., et al. (20210. Effect of a home-visiting parenting program to promote early childhood development and prevent violence: A cluster-randomized trial in Rwanda. *British Medical Journal Global Health* 6(1): e003508.
- Kotzky, K., Allen, J., Robinson, L., & Satterfield-Nash, P. (2019). Depressive symptoms and care demands among primary caregivers of young children with evidence of congenital Zika virus infection in Brazil. *Journal of Developmental & Behavioral Pediatrics*, 40(5). 344-353.
- McKnight, S. (2014). Implementing the Ages and Stages questionnaire in health visiting practice. Ten Alps Publishing, 87.11. 28.
- McLeigh, J., Tunnell, K., & Lazcano, C. (2021). Developmental status of young children in foster care. *Journal of Developmental & Behavioral Pediatrics*, 42(5):389-400,
- Nelson, A., Miller, A., Munoz, M., Rumaldo, N., et al. (2018). CASITA: a controlled pilot study of community-based family coaching to stimulate early child development in Lima, Peru. *BMJ Pediatrics Open.* 2:e000268. doi:10.1136/bmjpo-2018-000268.
- O'Connor, C., Laszewski, A., Hammel, & Durkin, M.S. (2011). Using portable computers in home visits: Effects on programs, data quality, home visitors and caregivers. *Children and Youth Services Review, 33*(7), 1318–1324.
- Odeh, C. (2019). Relationship of physical activity and developmental skills in preschool children. *Integrative Journal of Orthopaedics and Traumatology*, 2(3).
- Radman, H., Hashim. M., Ovaid, R., Hasan, H et al. (2018). The Mother-Infant Cohort (MISC): Methodology, challenges, and baseline characteristics. *PLOS One*. https://doi.org/10.1371/journal.pone.0198278
- Rispoli, K., Norman, M., & Hicks, E. (2021). Early childhood educators' attitudes about developmental screening for Autism Spectrum Disorder. *Journal of Early childhood Teacher Education*. https://www.tandfonline.com/loi/ujec20
- Shabidullab, J., Forman, S., Norton, A. Harris, J., et al. (2020). Implementation of developmental screening by childcare providers. *Infants & Young Children*, 33(1), 21-34.



- Squires, J., Katzev, A., & Jenkins, F. (2002). Early screening for developmental delays: Use of parent-completed questionnaires in Oregon's Healthy Start Program. *Early Child Development and Care*, 172(3), 275–282.
- Toussaint, E., & Roussseau, D. (2022). PEGASE Program: Identification of babies in child protection system at risk of developmental delays or disorders and the implementation of a supra-optimal care pathway. *Child Abuse Review*, doi.org/10.1002/car.2805.
- Traube, D., Hsiao, H., Rau, A., Hunt-O'Brian, D., et al. (2019). Advancing home-based parenting through the use of telehealth technology. *Journal of Child and Family Studies*. https://doi.org/10.1007/s10826-019-01458-w
- Tunon, I, Longhi, F. et al. (2024). Positive impacts on child development of a home visiting program in Santiago del Estero, Argentina, *Child and Youth Services Review*, 66, https://doi.org/10.1016/j.childyouth.2024.107931.
- Williams, D.L., Gelijns, A.C., Moskowitz, A.J., Weinberg, A.D., Ng, J.H., Crawford, E., Hayes, C.J., & Quaegebeur, J.M. (2000). Hypoplastic left heart syndrome: valuing the survival. *Journal of Thoracic and Cardiovascular Surgery*, 119(4 Pt 1), 720–31.
- Wright, T., Stevens, S., & Wouldes, T. (2018). Mothers and their infants co-admitted to a newly developed mother-baby unit: Characteristics and outcomes. *Infant Mental Health Journal*. DOI: 10.1002/imhj.21742.
- Yoshimoto, D.K., Robertson, T., & Hayes, D. (2014). The Hawai'i Home Visiting Network: Evidence-Based home visiting services in Hawai'i. *Hawai'i Journal of Medicine & Public Health*, 73(5): 155-60.
- Yu, L., Hey, E., Doyle, L., Farrell, B., Spark, B., Altman, D., & Duley, L. (2007). Evaluation of the Ages and Stages Questionnaires in identifying children with neurosensory disability in the Magpie Trial follow-up study. *Acta Paediatrica*, *96*, 1803–1808.

Used for teaching medical students about early development:

- Nicol, P. (2006). Using the Ages and Stages Questionnaire to teach medical students developmental assessment: a descriptive analysis. *BioMed Central Medical Education*, 6(29). Retrieved from http://biomedcentral.com/1472-6920/6/29.
- Perrin, H., Feldman, H., & Hufman, L. (2020). Development and evaluation of a school readiness curriculum for pediatrics residents. MedEdPortal. 16:10976. https://doi.org/10.15766/mep 2374-8265.10976



Used in Public Libraries as Early Childhood Service

Daskalakes, T.M., et al. (2023). How Can We Better Serve Children with Disabilities? Public Library Accessibility Recommendations from Early Intervention Coordinators, *Public Library Quarterly*, https://doi.org/10.1080/01616846.2023.2267961

Used to evaluate the role of early fine and gross motor development:

- Colliver, Y., Pacey, V., & Shepherd, R. (2019). Analysis of infant physical activity in the childcare environment: An observation study. *Infant Behavior & Development*, DOI: 10.1016/j.infbeh.2019.101338
- Lasutschinkow, P. C., Bo, J., et al. (2024). Convergent validity between the motor domain of PediaTracTM and Ages and Stages in term and preterm infants at 2, 4, 6, and 9 months of age. *Assessment*, 0(0) https://doi.org/10.1177/10731911241241144
- Piek, J., Dawson, L., Smith, L., & Gasson, N. (2008). The role of early fine and gross motor development on later motor and cognitive ability. *Human Movement Science*, 27(5), 668–681.
- Xiong, Y., et al. (2024). Development of gross motor skills in children under the age of 3 years: a decision tree approach. *Front. Public Health*, 21. https://doi.org/10.3389/fpubh.2024.1421173

Used successfully for follow up of infants born after infertility, assisted reproductive technologies:

- Bell, G., Sundaram, R., Mumford, S. Park H., et al. (2018). Maternal polycystic ovarian syndrome and early offspring development. *Human Reproduction*, doi.org/10.1093/humrep/dey087.
- Palermo, G., Neri, Q., Takeuchi T, Squires J., & Rosenwaks, Z. (2008). Genetic and epigenetic characteristics of ICSI children. *Reproductive BioMedicine Online*, 17(6), 820-833.
- Ponjaert, I., Tjus, T., Nekkebroeck, J., Squires, J., Verte, D., & Heimann, M., Bonduelle, M., Palermo, G., & Wennerholm, U. B. (2004). Psychological follow-up study of 5-year-old ICSI children. *Human Reproduction*, 19(12), 2791-2797.
- Squires, J., Carter, A., & Kaplan, P, (2003). Developmental monitoring of children conceived by ICSI and IVF. *Fertility and Sterility*, 79(2), 453–454.
- Squires, J. K., Carter, A., & Kaplan, P. F. (2001). Developmental monitoring of children conceived by ICSI and IVF. *Fertility & Sterility*, 76(3), Supplement 1:S145–S146.



Squires, J. K., Kaplan, P. F., & Carter, A. M. (2000). Developmental Monitoring of ICSI/IVF Offspring. *Fertility & Sterility*, 73(4), Supplement 1:14S.

Low-cost alternative—annual cost of \$25.00-\$50.00 for following children:

- Chan, B., & Taylor, N. (1998). Follow along program cost analysis in southwest Minnesota. *Infants & Young Children*, 10(4), 71–79.
- Dobrez, D., Sasso, A., Holl, J., Shalowitz, M., Leon, S., & Budetti, P. (2001). Estimating the cost of developmental and behavioral screening of preschool children in general pediatric practice. *Pediatrics*, 108(4), 913–922.

Used successfully in home visiting and Early Head Start programs:

- Baggett, K., Warlen, L., Hamilton, J. Roberts, J., & Staker, M. (2007). Screening infant mental health indicators: An Early Head Start initiative, *Infants & Young Children*, 20(4), 300–310.
- McKnight, S. (2014). Implementing the Ages and Stages questionnaire in health visiting practice. Ten Alps Publishing, 87.11. 28.
- Squires, J., Katzev, A., & Jenkins, F. (2002). Early screening for developmental delays: Use of parent-completed questionnaires in Oregon's Healthy Start Program. *Early Child Development and Care*, 172(3), 275–282.
- O'Connor, Cailin, Laszewski, A., Hammel, & Durkin, M.S. (2011). Using portable computers in home visits: Effects on programs, data quality, home visitors and caregivers. *Children and Youth Services Review, 33*(7), 1318–1324.\
- Yoshimoto, D.K., Robertson, T., Hayes, D. (2014). The Hawai'I Home Visiting Network: Evidence-based home visiting services in Hawai'i. *Hawai'I Journal of Medicine & Public Health* 73(5): 155-60.

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*, 2109-2119.

In inner-city public health clinics:

Huberman, H. (2000). A randomized clinical control trial examining the feasibility of three different approaches to periodic screening of at-risk children. Study supported by the



Maternal and Child Health Bureau. New York: Medical and Health Research Association of New York City, Inc.

Used for evaluating the 2006 American Academy of Pediatrics developmental surveillance and screening algorithm

Marks, K.P., Glascoe, F.P., & Macias, M.M. (2011). Enhancing the algorithm for developmental—behavioral surveillance and Screening in children 0 to 5 years. *Clinical Pediatrics*, *XX*(X), 1–16.

Used to evaluate the role of early fine and gross motor development on later motor and cognitive ability:

Piek J., Dawson L., Smith L., & Gasson N. (2008). The role of early fine and gross motor development on later motor and cognitive ability. *Human Movement Science*, 27(5), 668–681.

Used to screen dual language learners, language enhancement, determine the prevalence of late-language emergence, and to investigate the predictive status of maternal, family, and child variables:

- Coelho, A., Gonzalez, L., & Gibb, R. (2020). Building executive function in pre-school children through play: a curriculum. *International Journal of Play* https://doi.org/10.1080/21594937.2020.1720127
- Guiberson, M. & Banerjee, R., (2012). Using questionnaires to screen emergent dual language learner toddlers & preschool-age children for language disorders. *YEC Monograph No. 14 Using questionnaires to screening young dual language learners with or at-risk for disabilities.* Division for Early Childhood, Council of Exceptional Children.
- Guler Yildiz, T., Gonen, M., Ulker Erdem, A., Garcia, A., Raikes, H., et al. (2019). Examining the associations between children's receptive language skills and developmental domains in the United States and Turkey. *Journal of Child Language*, 1-21. https://doi.org/10.1017/S0305000918000570
- Henteges, R., Madigan, S., Plamondon, A., Racine, N., et al. (2019). Heterogeneous trajectories of delayed communicative development from 12 to 36 months: Predictors and consequences. *Journal of Developmental and Behavioral Pediatrics*, 4(5), 335-343.
- Kern, S., Valente, D., & dos Santo, C. (2019). Lexical development in bilingual French/Portuguese speaking toddlers. *Journal of Monolingual and Bilingual Speech*. 1.2. 206-224.



- Kim, S., Lee, Y., et al. (2022). Predictive validity and factors of direct and indirect language screening for children using panel data. *Korean J Child Stud*; 43(1): 1-17. DOI: https://doi.org/10.5723/kjcs.2022.43.1.1
- Lauro, J., Core, C., & Hoff, E. (2020). Explaining individual differences in trajectories of simultaneous bilingual development: Contributions of child and environmental factors. *Child Development*, 91(6), 2063-2082.
- Murray, A., & Egan, S. (2014). Does reading to infants benefit their cognitive development at 9-months-old? An investigation using a large birth cohort survey. *Child Language Teaching and Therapy*, 30(3), 303-315.
- Netelenbos, N. et al. (2020). A case for early screening: prenatal alcohol risk exposure predicts risk for early childhood communication delays, *Journal of Developmental & Behavioral Pediatrics*, 41, 7, 559-564. doi: 10.1097/DBP.000000000000816
- Salley, B., Hoffman, L., Brady, N., & Fleming, K. (2019). Preverbal communication complexity in infants. *Infancy*. DOI: 10.1111/infa.12318
- Zambrana, I., Vollrath, M., Jacobsson, et al. (2020). Preterm birth and risk for language delays before school entry: A sibling control study. *Development and Psychopathology*. DOI: 10.1017/S0954579419001536
- Zubrick, S.R., Taylor, C.L., Rice, M.L., & Slegers, D.W. (2007). Late language emergence at 24 months: An epidemiological study of prevalence, predictors, and covariates. *Journal of Speech, Language, and Hearing Research*, 50, 1562–1592.

Translated and used cross-culturally with success:

- Abo El Elella, S., Tawfik M., Abo El Fotoh, WMM, et al. (2017). Screening for developmental delay in preschool-aged children using parent-completed Ages and Stages Questionnaires: additional insights into child development. *Postgraduate Medical Journal*. 93:597-602.
- Adeniyi, Y. et al. (2021). Early-onset developmental impairments at a routine immunization clinic at University College Hospital, Ibadan, Nigeria. *International Health*, 0:1-6.
- Alvik, A., & Grøholt, B. (2011). Examination of the cut-off scores determined by the Ages and Stages Questionnaire in a population-based sample of 6-month-old Norwegian infants. *BMC Pediatrics*, 11, 117.
- Armijo, I., Schonhaut, L., & Cordero, M. (2015). Validation of the Chilean version of the Ages and Stages Questionnaire (ASQ-CL) in community health settings. *Early Human Development*, *91*, 671-676.



- Ashish, K., & Chen, C., Yang, Y., & Zhou, H. (2020). Social-emotional challenges and development of children left behind by migrant mothers. *Journal of Global Health*, Vol. 10 No. 1 010806.
- Azdi, Z., Islam, K., et al. (2021). Effectiveness of an integrated care package for refugee mothers and children: Protocol for a cluster randomized controlled trial. *JMIR Publications*. https://preprints.jmir.org/preprint/25047
- Bernal, R., Attanasio, O., et al. (2019). Effects of transition from home-based childcare to childcare centers...in Columbia. *Early Childhood Research Quarterly*, 47, 418-431.
- Berggren, S. et al. (2021). Serum osteocalcin levels at four months were associated with neurodevelopment at four years of age... *Acta Paediatrica*, DOI:10.1111/apa/16151.
- Bleker, L., Milgrom, J., Sexton-Oates, Al., Parker, D., et al. (2020). Cognitive behavioral therapy for antenatal depression in pilot RCT and effects on offspring 3-7. *Frontiers in Psychiatry*. Vol 11, Article 24.
- Bian, X., Yao, G., Squires, J., Hoselton, R., Chen, C., Murphy, K., Wei, M., & Fang, B. (2012). Translation and use of parent-completed developmental screening test in Shanghai. *Journal of Early Childhood Research*, 10(2), 162-175.
- Bian, X., Yao, G., Squires, J., Wei, M., Chen, C., & Fang, B. (2010). Studies of the norm and psychometric properties of Ages and Stages Questionnaires in Shanghai children. Zhonghua Er Ke Za Shi. *Chinese Journal of Pediatrics*, 48(7), 492–496.
- Bian, X., Song W. Squires, J., Wei, M., Yao, G. (2010). Study of the cutoff scores of the Ages and Stages Questionnaire-Chinese for screening infants and toddlers. *Zhonghua Er Ke Za Shi. Chinese Journal of Pediatrics*, 48(11) 824-828.
- Bian, X., Wei M., Shi J., Li H. (2005). Application of cognitive adaptive test / clinical linguistic and auditory milestone scale and the ages and stages questionnaires for developmental assessment in Chinese infants and toddlers. *Chinese Journal of Clinical Rehabilitation*, 9(19), 188-190
- Bornman, S., Jevcik, R., Romski, M., & Pae, H. (2010). Successfully translating language and culture when adapting assessment measures. *Journal of Policy and Practice in Intellectual Disabilities*, 7(2), 110–118.
- Campos, J., Squires, J. & Ponte, J. (2010). Universal development screening: Preliminary studies in Galicia, Spain. *Early Child Development and Care*, 1–11.
- Cao, Z. et al. (2021). Association between home environment and development among 3-11-month infants in Shanghai, China. *Child: Care, Health, and Development*. Doi.org/10.1111/cch.12902.



- Chademana, E. et al. (2023). A baseline assessment of developmental delays among children under 5 years in high-HIV prevalence setting in Cape Metropole. *South African Journal of Child Health*. doi.org/10.7196/SAJCH.2023.v17i3.1911
- Chang, R. et al. (2023). Associations of father absence and limited access to books and toys with early childhood development among children ages 0-6 in a rural county lifted out of poverty in China. *Child Care Health Develop.* 50(1) doi: 10.1111/cch.13145.
- Chang, R., Li, C., et al. (2023). Roles of caregiver-child interaction on the association of socioeconomic status with early childhood development among children aged 0-6 in a rural county in Central China. *Research Square*, 50(1) https://doi.org/10.1111/cch.13145
- Charafeddine, L., Sinno, D., Ammous, F., Yassin, W., Al-Shaar, L., & Mikati, M.A. (2013). Ages and Stages Questionnaires: Adaptation to an Arabic speaking population and cultural sensitivity. *European Journal of Paediatric Neurology*, 17 (5), 471–478.
- Chaudhari, S., & Kadam, S. (2012). Ages and Stages Questionnaire A developmental screening test. *Indian Pediatrics*, 49(6), 440–441.
- Cheng, G., Sha, T., Gao, X., Wu, X., Tian, Q., Yang, F., & Yan, Y. (2019). Effects of maternal prenatal multi-micronutrient supplementation on growth and development until 3 years of age. *Int. J. Environ. Res. Public Health*, 16, 2744. https://doi.org/10.3390/ijerph16152744
- Cibralic, S., Hawker, P., et al. (2022), Developmental screening tools used with First Nations populations: A systematic review. *International Journal of Environmental Research and Public Health*, 19, 15627.
- Clifford, J., Squires, J., & Murphy, K. (2017). Not lost in translation: Modifying the Ages & Stage Questionnaires for use in cross-cultural context. *Current Developmental Disorders Report*. DOI 10.1007/s40474-017-0121-2
- Cohen, S., Holloway, S., Dominguez-Pareto, I., Kuppermann, M. (2015). Support and Self-Efficacy Among Latino and White Parents of Children With ID. *American Journal on Intellectual and Developmental Disabilities*, 120,(1), 16-31.
- Dai, X., Williams, G., et al. (2022). The sibling effect on neurodevelopment of preschoolers under China's newly relaxed child policy: A national retrospective cohort study. *Frontiers in Psychology*, 13:988622.
- D'Aprano, A., Brookes, I., et al. (2022). Uptake of the culturally appropriate ASQ-TRAK developmental screening tool in the Australian Aboriginal and Torres Strait Islander context. *Child: Care, Health and Development*, doi: 10.1111.cch.13006
- D'Aprano, A., Hunter, S-A. et al. (2023). All Aboriginal and Torres Strait Islander children should have access to the ASQ-TRAK: Shared vision of an implementation support model. *Health Promotion Journal of Australia*. DOI: 10.1002/hpja.773



- D'Aprano, A., Silburn, S., Johnston, V., Robinson, G., Oberklaid, F., & Squires, J. (2016). Adaptation of the Ages& Stages Questionnaires for Remote Aboriginal Australia. *Qualitative Health Research*, 2016; 26(5):613-25
- D'Aprano, A., Silburn, S., Johnston, V., Oberklaid, F., & Taylor, C. (2015). Culturally appropriate training for remote Australian Aboriginal health workers: Evaluation of an early childhood development training intervention. *Journal of Developmental and Behavioral Pediatrics*, 26(5): 613-25.
- Delbiso, T., et al. (2024). Early childhood development and nutritional status in urban Ethiopia. *Maternal Child Nutrition*. https://doi.org/10.1111/mcn.13638
- Dionne, C., McKinnon, S., & Squires, J. (2010). Screening delays in development in young children in a First Nations community: Le depistage des retards de developpement chez les jeunes enfants d'une communité des Premieres Nations. *First Peoples Child and Family Review*, 5(2), 117–123.
- Dionne, C., McKinnon, S., Squires, J., & Clifford, J. (2014). Developmental screening in a Canadian First Nation (Mohawk): Psychometric properties and adaptations of Ages & Stages Questionnaires (2nd). *Biomed Central*, 14: doi: 10.1186/1471-2431-14-23.
- Dionne, C., Squires, J., Leclerc, D. (2004, June). Psychometric properties of a developmental screening test: Using the Ages and Stages Questionnaires (ASQ) in Quebec and the US. *Journal of Intellectual Disability Research*, 48(4–5), 408.
- Dionne, C., Squires, J., Leclerc, D., Peloquin, J., & McKinnon, S. (2006). Cross-cultural comparison of a French Canadian and U.S. developmental screening test. *Developmental Disabilities Bulletin*, 34(1–2), 43–56.
- Eadie, P. et al. (2023). Educational and developmental gains in early childhood (EDGE) study protocol: investigating impact of funded 3-year-old kindergarten. *International Journal of Research and Method in Education*. https://doi.org/10.1080/1743727X.2023.2288114
- Elbers, J., Macnab, A., McLeod, E., & Gagnon, F. (2008). The Ages and Stages Questionnaires: Feasibility of use as a screening tool for children in Canada. *Canadian Journal of Rural Medicine*, 13(1), 9–14.
- El-Behadli, A., Neger, E., Perrin, E., & Sheldrick, C., (2015). Translation of developmental screening instruments: An evidence map of available research. *Journal of Developmental and Behavioral Pediatrics*, (36)6, 471-483.
- Elella, S., Tawfik, M., El Fotoh, W., Barseem, N. (2016). Screening for developmental delay in preschool-aged children using parent-completed Ages and Stages Questionnaires: additional insights into child development (Egypt). http://pmj.bmj.com/content/early/2017/04/13/postgradmedj-2016-134694.



- Fallah, R., Islami, Z., & Mosavian, T. (2011). Developmental status of NICU admitted low birth weight preterm neonates at 6 and 12 months of age using Ages and Stages Questionnaire. *Iranian Journal of Child Neurology*, *5*(1), 21–28. Retrieved online at http://journals.sbmu.ac.ir/ijcn/article/viewFile/2120/1827.
- Filgueiras, A., Pires, P., Maissonette, S., & Landeira-Fernandez, J. (2013). Psychometric properties of the Brazilian-adapted version of the Ages and Stages Questionnaire in public child daycare centers. *Early Human Development*, 89, 561–576.
- Ga, H., & Kwon, J. (2011). A comparison of the Korean-Ages and Stages Questionnaires and Denver Developmental Delay Screening Test. *Ann Rehabil Med*, *35*(3), 369–374.
- Gerdes, M., Garcia-Espana, J., Webb, D. et al. (2018). Psychometric properties of two developmental screening instruments for Hispanic children in the Philadelphia region. *Academic Pediatrics*. https://doi.org/10.1016/j.acap.2018.10.002.
- Gibb, R. et al. (2021). Promoting executive function skills in preschoolers using a play-based program. *Frontiers in Psychology*, 720225.
- Guiberson, M. & Rodriguez, B. (2010). Measurement properties and classification accuracy of two Spanish parent surveys of language development for preschool-age children. *American Journal of Speech-Language Pathology*, 19, 225-237.
- Guo, X. Xu, J et al. (2024). Interaction of prenatal maternal selenium and manganese levels on child neurodevelopmental trajectories-the Shanghai birth cohort study. *Science of The Total Environment*. *915*, 170095. https://doi.org/10.1016/j.scitotenv.2024.170095.
- Heo, K., Squires, J., & Yovanoff, P. (2008). Cross-cultural adaptation of a preschool screening instrument: Comparison of Korean and U.S. Populations. *Journal of Intellectual Disability Research*, 52, 195–206.
- Ho, C., Duursma, E., & Herbert, J., (2023). Mother-infant shared book reading in the first year of life. *Infant and Child Development*. https://doi.org/10.1002/icd.2465
- Hornman, J., Kerstjens, J., De Winter, A., Bos, A. & Reijneveld, S. (2013). Validity and internal consistency of the Ages and Stages Questionnaire 60-month version and the effect of three scoring methods. Early Human Development 89(12), 1011-5.
- Hossain, M. et al. (2021). International study of 24-h movement behaviors in early years (SUNRISE): a pilot study from Bangladesh. *Pilot and Feasibility Studies*, 7:176.
- Janson, H., & Squires, J. (2004). Parent-completed developmental screening in a Norwegian population sample: A comparison with U.S. normative data. *Acta Paediatrica*, 93(11), 1525–1529.



- Janson, H. (2003). Influences on participation rate in a national Norwegian child development screening questionnaire study. *Acta Paediatrica*, 92(1), 91–6.
- Janson, H., Squires, J., & Richter, J. (2008). Effect of violating the age window for a parent-completed child development screening questionnaire. *Australian Journal of Educational and Developmental Psychology*, 8, 98–102.
- Jiménez-Martínez M., Navarro-Roldan C.P., Castellanos-Páez V., et al. (2022). Psychometric properties of (the) ages and stages questionnaire (ASQ-3) in a Colombian population. *Int J Fam Commun Med.* 6(6):316-322. DOI: 10.15406/ijfcm.2022.06.00297
- Johansen, K., Jeyaseelan, D., Chan, Y.P., Simpson, S., O'Keefe, M., & D'Aprano, A. (2020). Acceptability of the ASQ-TRAK screening tool to caregivers of Aboriginal children. *Journal of Paediatrics and Child Health*. https://doi.org/10.1111/jpc.15099
- Juneja, M., Mohanty, M., Jain, R., & Ramji, S (October 31, 2011). Ages and Stages Questionnaire as a screening tool for developmental delay in Indian children. *Indian Pediatrics*. Advance online publication. Retrieved online at: http://www.indianpediatrics.net.
- Juneja, M., Mohanty, M., Jain, R., & Ramji, S. (2012). Ages and Stages Questionnaire as a screening tool for developmental delay in Indian children. *Indian Pediatrics*, 49(6), 457–461.
- Kalberg, W. et al. (2023). Relationship-based intervention for children who were prenatally alcohol exposed in South Africa. *Research in Developmental Disabilities*. 136. https://doi.org/10.1016/j.ridd.2023.104479
- Kapci, E., Kucuker, S., & Uslu, R. (2010). How applicable are the Ages and Stages Questionnaires for use with Turkish children? *Topics in Early Childhood Special Education*, 30(3), 148–161.
- Kaur, P., Chavan, B. S., Lata, S., Kaur, A., Tinku, S., Arora, Y., & Ratnam, V. (2006). Early intervention in developmental delay. *The Indian Journal of Pediatrics*, 73(5), 405–408. https://doi.org/10.1007/BF02758561
- Kavousipor, S., Rassafiani, M., et al. (2020). Influence of home affordances on motor skills in 3-18 month old Iranian children. *Early Child Development and Care*. doi.org/10.1080/03004430.2020.1727463
- Kazemian SV, Farkhani EM, Jarahi L (2024). Prevalence and determinants of suspected developmental delays among 12-month-old children in northeast of Iran: a large-scale population-based study. *BMJ Paediatrics Open*, 8:e002393. doi:10.1136/bmjpo-2023-002393



- Kerstjens, J., Bos, A., ten Vergert, E., de Meer, G., Burcher, P., & Reijneveld, S. (2009). Support for the global feasibility of the Ages and Stages Questionnaire as developmental screener. *Early Human Development*, 85(7), 443–447.
- Khan, N. et al. (2023). Is early childhood development care at public health facilities in Pakistan effective: A clustered randomized trial. *Global Health: Science and Practice*/. https://doi.org/10.9745/GHSP-D-23-00037
- Khorrami Z, Namdar A. (2018). Development status among one-year-old children referring to urban health centers of Jahrom: An Assessment based on Ages & Stages Questionnaires. *Community Health*, 5(2). 141-50.
- Kikuchi, K., Michikawa, T., Morokuma, S. *et al.* (2024). Infants' early recovery from sleep disturbance is associated with a lower risk of developmental delay in the Japan Environment and Children's Study. *Sci Rep 14*, 17773. https://doi.org/10.1038/s41598-024-68672-5.
- Kim, M.K., & Choi, J-W. (2022). Associations between breastfeeding and cognitive function in children from early childhood to school age: A prospective birth cohort study. *BMC International Breastfeeding Journal*. https://doi.org/10.21203/rs.3.rs-16984/v2
- Kim, K., & Chung, U. (2021). Associations among exposure to television or video, language development, and school achievement in childhood: a prospective birth cohort study. *Social Psychiatry and Psychiatric Epidemiology*, 56(5), 1-10.
- Kim, S.W., Hanm Z.A., Jeon, H.R., Choi, J.Y., Chung, H.J. Kim, Y.K., Yoon, Y.H. (2011). Neurodevelopmental disorders of children screened by the infantile health promotion system. *Annals of Rehabilitation Medicine*, *35*(6), 867-872.
- Kobayashi, Y., Tokuda, N.et al. (2020). Association between surgical procedures undergoing general anesthesia in infants and developmental outcomes at 1 year: Japan Environment and Children's Study. *Environmental Health and Preventive Medicine*, 25:32.
- Koushiou, M., et al. (2023). Exploring the Ages and Stage Questionnaire—3 psychometric properties with Greek-Cyprot males and females during toddlerhood: preliminary findings. *Global Pediatrics*, 4, 100045.
- Kovanen, P., Maatta, P., Leskinen, & Heinonen, K. (2000). Parents as developmental screeners: The applicability of the Ages and Stages Questionnaire in Finland. *Journal of Intellectual Disability Research*, 44(3 & 4), 353.
- Kvestad, I., Taneja, S., Kumar, T., Bhandari, N., Strand, T., Hysing, M. (2013). The assessment of developmental status using the Ages and Stages qustuionnaire-3 in nutritional research in north Indian young children. *Nutrition Journal*, 12:50,1-11.



- Kyerematen, V., Hamb, A., Oberhelman, R., Cabrera, L., Bernabe-Ortiz, A., & Berry, S. (2014). Exploratory application of the Ages and Stages Questionnaires (ASQ) child development screening test in a low-incidence shandytown population, *BMJ Open*, January 14, 2014.
- Laguardia, G., et al. (2021). O father where art thou? Early maternal employment and child development. *Instituto de Economia*, DT.05/21.
- Lando, A., Klamer, A., Jonsbo, J., Weiss, J., & Greisen, G. (2005). Developmental delay at 12 months in children born extremely preterm. *Acta Paediatrica*, *94*, 1604–1607.
- Li, Y., Li, S., Tang, L. et al. (2022). The effect of ECD program on the caregiver's parenting knowledge, attitudes, and practices: based on a cluster-randomized controlled trial in economically vulnerable areas of China. *BMC Public Health 22*, 1958. https://doi.org/10.1186/s12889-022-14268-5
- Li, Y., Tang, L., et al. (2020). Reliability and validity of the caregiver reported Early Development Instrument in impoverished regions of China. *BMC Pediatrics*. 20:475.
- Long, D., Minogue, J., et al. (2024). Neurodevelopmental outcome and quality of life in children admitted to the paediatric intensive care unit: A single-centre Australian cohort study. *Australian Critical Care*, https://www.australiancriticalcare.com/article/S1036-7314(24)00087-0/fulltext
- Lopes, S., Graca, P, Teixeira, S., Serrano, A. & Squires, J. (2015). Psychometric properties and validation of the Portuguese version of Ages & Stages Questionnaires (3rd edition): 9, 18, and 30 Questionnaires. *Early Human Development (91)* 9, 527-533.
- Ma, G., et al. (2023). Early stimulation and responsive care: A mediator of caregivers' depression on suspected DD of left-behind children. *Journal of Affective Disorders*. https://doi.org/10.1016/j.jad.2023.08.118
- Ma, R., Yang, K., Chen, C., Kahe, K., et al. (2021). Early-life exposure to aluminum and fine motor performance in infants: a longitudinal study. *Journal of Environmental Epidemiology*. Doi: 10.1038/s41370-021-00294-9
- Manti, F., Giovannone, F. et al. (2023). Psychometric properties and validation of the Italian version of the Ages & Stages Questionnaires Third Edition. *International Journal of Environmental Research and Public Health.* 20(6), 5014; https://doi.org/10.3390/ijerph20065014
- Maselko, J., Hagaman, A., Bates, L., Bhalotra, S. et al. (2019). Father involvement in the first year of life: Associations with maternal mental health and child development outcomes in rural Pakistan. Social Science & Medicine. 112421. https://doi.org/10.1016/j.socscimed.2019.112421



- Milbrath, G., Constance, C. et al. (2020). Comparing two early childhood development assessment tools in rural Limpopo, South Africa. *BMC Pediatrics*. 20:197.
- Miller, L., Neupane, S., Joshi, N., Shrestha, M. et al. (2020). Diet quality over time is associated with better development in rural Nepali children. *Maternal and Child Nutrition*. https://doi.org/10.1111/mcn.12964.
- Moraveji, S., Ghaffarian, H., Atoof, F., Rabbani, D. et al. (2019). Evaluation of evolutionary status of 4-60-month old children in Kashan and Aran-Bidgol and its related factors in 2016-2017. *International Archives of Health Sciences*, (6)2.
- Nazari, J., et al. (2021). Physical and mental growth and development in children with hypothyroidism: a case-control study. *Orphanet Journal of Rare Diseases*, 16:393.
- Nduka, E., & Jimoh, M. (2024). Air Pollution, Child Health, and Cognitive Development. (2024). *The Journal of Development Studies*, 1–21. https://doi.org/10.1080/00220388.2024.2420024
- Ngyuyen P., Friedman, J., Kak, M., Menon, P, & Alderman, H. (2018). Maternal depressive symptoms are negatively associated with child growth and development: Evidence from rural India. *Maternal Child Nutrition*.doi.org/10.1111/mcn.12621.
- Nozardi, S., Clifford, J., Du, R., Murphy, K. et al. (2019). Use of Ages and Stages Questionnaires (ASQ) in a Navajo population: Comparison with US normative dataset. *Child Care Health Development.* 45:709-718.
- Oksendal, El., Brandlistuen, F., Wolke, D., Helland, S., et al. (2021). Associations between language difficulties, peer victimization, and bully perpetration from 3 through 8 years. *Journal of Speech, Language, and Hearing Research*, 64, p. 2698–2714.
- Oliva-Arnanz, A., Romay-Barrero, H., Romero-Galisteo, R.-P., Pinero-Pinto, E., Lirio-Romero, C., & Palomo-Carrión, R. (2021). Families' perceptions of the motor development and quality of life of their children aged 0–3 years during home confinement due to the COVID-19 pandemic: A descriptive study. *Children*, 8, 1149. https://doi.org/10.3390/children8121149.
- Olhaberry, M., Leon, M., Sieverson, C., Escobar, M. et al. (2019). Is it possible to improve early childhood development with a video-feedback intervention directed at the mother-father-child triad? *Research in Psychotherapy: Psychopathology, Process and Outcome*, 22, 244-255.
- Ostergaard K., Lando A., Hansen B., & Greisen G. (2012). A Danish reference chart for assessment of psychomotor development based on the Ages & Stages Questionnaire. *Dan Med J*, 59(6), 1–5.



- Ortiz-Leon, S., Granados-Rojas, A., Cavazos-Olivo, J., Benito-Avendano, L. et al. (2018). Internal and inter-rater reliability of the ASQ-3 in Mexican preschoolers, *Salud Mental*, 41(2), 10.17711/SM.0185-3325.2018.011
- Oumer, A. et al. (2022). Stunting and underweight but not wasting are associated with delay in child development in southwest Ethiopia. *Pediatric Health, Medicine and Therapeutics*. 13, 1-12.
- Padbidri, P. et al. (2023). Establishing linguistic equivalency of the Marathi translation of the Ages and Stages Questionnaires, Third Edition (ASQ-3). *Indian Pediatrics*, https://www.researchgate.net/publication/374831671
- Pomes, M., Squires, J., & Yovanoff, P. (2014). Psychometric examination of a Spanish translation of a developmental screening instrument. *Journal of Early Childhood Research*. DOI: 10.1177/1476718X14529279.
- Prieto, J.A., Cueto, S., Carballo-Fazanes, A., & Abelairas-Gómez, C. (2020). Psychomotor development disorders in apparently healthy children and considerations of family evaluation. *Journal of Human Sport and Exercise*. doi:https://doi.org/10.14198/jhse.2022.173.04
- Qu, X., Wang, X., Huang, X., Aahiah, K, et al. (2020). Social-emotional challenges and development of children left behind by migrant mothers. *Journal of Global Health*. DOI: 10.7189/jogh.10.010806
- Richter, J. & Janson, H. (2007). A validation study of the Norwegian version of the Ages and Stages Questionnaires. *Acta Paediatrica*, *96*, 748–752.
- Rocha, H., Sudfeld, C., Leite, A., Rocha, S., et al. (2020). Adverse childhood experiences and child development outcomes in Ceara, Brazil: A population-based study. *American Journal of Preventive Medicine*. https://doi.org/10.1016/j.amepre.2020.08.012
- Rocha, H., et al. (2021). Undernutrition and short duration of breastfeeding association with child development in Ceara, Brazil. *Jornal de Pediatria*, 0:46, 1-7.
- Saihong, P. (2010). Use of screening instrument in northeast Thai early childcare settings. *Procedia Social and Behavioral Sciences*, 7, 97–105.
- Sajedi, F., Vameghi, R., & Mojembari, A (2013). Prevalence of undetected developmental delays in Iranian children. *Child: Care, Health and Development.* Doi: 10.1111/cch/12042.
- Sajedi, F., Vameghi, R., Mojembari, A., Habibollahi, A., Lornejad, H., & Delavar, B., (2012). Standardization and validation of the ASQ developmental disorders screening tool in children of Tehran City. *Tehran University Medical Journal*, 70(7), 436-446.



- Santos, C., et al. (2023). Developmental impairment in children exposed to sars Cov-2 in Utero: Brazilian cohort study. *Research Square*. https://orcid.org/0000-0001-8067-7625
- Santana, C., Filgueiras, A., Landeira-Fernandez, J. (2015). Ages & Stages Questionnaire-Brazil-2011: Adjustments on an early childhood development screening measure. *Global Pediatric Health*, 2 (1-12).
- Schjølberg, S., Eadie, P., Zachrisson, H. D., Øyen, A. S. Prior, M. (2011). Predicting language development at age 18 months: data from the Norwegian mother and child cohort study. *Journal of Developmental & Behavioral Pediatrics*, 32(5), 375–383.
- Schoch, S., Reto, H., Kohler, M. & Salome, K. (2020). Which are the central aspects of infant sleep? The dynamics of sleep composites across infancy. *Zurich Open Repository and Archive*, University of Zurich. DOI 10.3390/s20247188.
- Schonhaut, L., Salinas, P., Armijo, I., Schönstedt, M., Álvarez, J., & Manríquez, M. (2009). Validación de un cuestionario autoadministrado para la evaluatión del desarrollo psicomotor. (Validiation of a self administered questionnaire for the evaluation of psychomotor development.) Revista Chilena de Pediatría, 80(6), 513–519
- Schou, K. Lando, A., Ekelund, C. et al. (2023). Long-term neurodevelopmental outcomes of monchorionic twins after therapy umbilical cord occlusion... Fetal Diagnosis and Therapy. https://doi.org/10.1159/000491787
- Shahshahani, S., Vameghi, R., Azari1, N, Sajedi, F, and Kazemnejad, A. (2010). Validity and reliability determination of Denver Developmental Screening Test-II in 0-6 year-olds in Tehran. *Iranian Journal of Pediatrics*, 20(3), 313–322.
- Shen, Y., Zhang, W., Jin, H., et al. (2024). Association of whole blood essential metals with neurodevelopment among preschool children. *Pediatric Research*. https://doi.org/10.1038/s41390-024-03729-9
- Shi, H., Li, X., Fang, H et al. (2020). Effectiveness and cost-effectiveness of parenting intervention integrated with primary health care: Cluster-randomized controlled trial. *Prevention Science* 21(10064):1-11.
- Shrestha, M., Schwinger, C., Hysing, M., Candyo, R., Ulak, M., et al. (2020). Agreement between mothers and fieldworkers while assessing child development using Ages and Stages Questionnaires, Third Edition in Nepal. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2020.579412
- Shrestha, M., Strand, T., Ulak, M., Chandyo, R., et al. (2019). The feasibility of the Ages and Stages Questionnaire for the assessment of child development in a community setting in Nepal. *Child: Care, Health, and Development*. doi: 10.1111/cch.12654.



- Silventionen, K., Honda, C., et al. (2024). Chronicity and psychomotor development from infancy to childhood: The Japan Environment and Children's Study. 10.1017/thg.2024.39
- Simpson, S., D'Aprano, A., Tayler, C., Khoo, S., Highfold, R. (2016). Validation of a culturally adapted developmental screening tool for Australian Aboriginal children: Early findings and next steps. *Early Human Development*, 103, 91-95.
- Small, J. W., Hix-Small, H., Vargas-Baron, E., & Marks, K. P. (2018). Comparative use of the Ages and Stages Questionnaires in low- and middle-income countries. *Developmental Medicine & Child Neurology*. doi:10.1111/dmcn.13938
- Srinithiwat, B., & Ularntinon, S. (2014). Concurrent validity of the Ages & Stages Questionnaires, Third Edition, Thai-version (ASQ-3 Thai) with the Denver Developmental Screening Test II (DDST-II) in developmental screening of 18, 24, and 30 months old children at Queen Sirikit National Institute of Child Health. *Journal of the Medical Association of Thailand = Chotmaihet Thangphaet*, 97 Suppl 6, S6-13.
- Steenis, L., Verhoeven, M., Hessen, D., & van Baar, A. (2015). Parental and professional assessment of early child development: The ASQ-3 and the Bayley-III-NL. *Early Human Development*, S0378-3782(15)00021-3/abstract
- Su, et al. (2023). Survey study on early detection of young children with disabilities in urban and rural China. *Child: Care, Health and Development,* doi/10.1111/cch.13112.
- Surkan, P., Park, S., et al. (2024). Effects of a prenatal anxiety randomized controlled trial intervention on infant development in Pakistan. *Academic Pediatrics*. https://www.academicpedsjnl.net/article/S1876-2859(24)00286-9/abstract
- Tan, et al. (2020). Caregivers' depressive symptoms and social—emotional development of left-behind children under 3 years old in poor rural China: The mediating role of home environment. *Children and Youth Services Review*, 116. 105109.
- Tobin, T., Boulmier, P., Zhu, W., Hancock, P., Muennig, P. (2015). Improving outcomes for refugee children: A case study on the impact of Montessori education along the Thai-Burma border. *International Education Journal: Comparative Perspectives, 14*(3), 138-149.
- Tran, H.T.T., Le, H.T., Tran, D.M., et al. (2024). Therapeutic hypothermia after perinatal asphyxia in Vietnam: medium term outcomes at 18 months a prospective cohort study. *BMJ Paediatrics Open*, 8:e002208. doi:10.1136/bmjpo-2023-002208
- Trillingsgaard, et al. (2024). Does group-based parent support during the transition to parenthood affect child socal-emotional and health care utilization? A RCT. *Social Science & Medicine*. doi: https://doi.org/10.1016/j.socscimed.2024.116741.



- Tsai, H.A., McClelland, M., Pratt, C., & Squires, J. (2006). Adaptation of the 36 month Ages and Stages Questionnaire in Taiwan. *Journal of Early Intervention*, 28(3), 213–225.
- Vameghi, R., Sajedi, F., Mojembari, A.K., Habiollahi, A., Lornezhad, H.R., & Delavar, B. (2013). Cross-cultural adaptation, validation and standardization of Ages and Stages Questionnaire (ASQ) in Iranian children. *Iranian Journal of Public Health*, 42(5):522-8.
- Van Baar, A., Jong, M., et al. (2020). Reliability and validity of the Utrecht asks for attention in toddlers using eye tracking (UTATE). *Frontiers in Psychology*, 11, #1179.
- Van Heerden, A., Hsiao, C., Matafwali, B., Louw, J., & Richter, L. (2017). Support for the feasibility of the Ages and Stages Questionnaire as a developmental screening tool: a cross-sectional study of South African and Zambian children aged 2-60 moths. *BMC Pediatrics*. 17:55,1-9.
- Wang, B., Luo, X., et al. (2020). Family environment in rural China: The link with early childhood development. *Early Childhood Development and Care*. 10.1080/03004430.2020.1784890.
- Wang, L., et al. (2022). Path of social emotional development before 3 year olds and child development after 5 years: Evidence from rural China. *Early Human Development*. 165, 105539.
- Wang, X., Zhang, S., Wang, J., et al. (2024). Follow-up outcome analysis of 324 cases of early-onset and late-onset mild fetal ventriculomegaly: a retrospective cohort study. *Eur J Med Res* 29, 128. https://doi.org/10.1186/s40001-024-01709-7
- Wei, H., Zhang, X., et al. (2023). Prenatal exposure to pesticides and domain-specific neurodevelopment at age 12 and 18 months in Nanjing, China. *Environment International*. https://doi.org/10.1016/j.envint.2023.107814 R
- Wei, M., Bian, X., Squires, J., Yao, G., Wang X., Xie H., Song W., Lu J., Zhu C., Yue H., Zhu G., Wang Q., Xu R., Wan C., Sun S., & Chen J. (2015). Studies of the norm and psychometrical properties of the ages and stages questionnaires, third edition, with a Chinese national sample. *Zhonghua Er Ke Za Shi. Chinese Journal of Pediatrics*, 53(12), 913–918.
- Wei, M., Squires, J., Song W., Qian Y., Yao, G., Bian, X., Zhang L., Zheng X., Chen, C., & Xu S. (2011). Study on the neuropsychological development differences in the Ages and Stages Questionnaires (Chinese version) of Shanghai children aged 3 to 66 months in seasons of spring, summer and autumn. *Chinese Journal of Evidence Based Pediatrics*, 6(6), 425-430.
- Westgard, C. & Alnasser, Yl. (2017). Developmental delay in the Amazon: The social determinants and prevalence among rural communities in Peru. *PLoS ONE 12(10)*; doi.org/10.371/journal.pone.0186263.



- Wu, T., et al. (2022). Effects of SARS-CoV-2 infection during late pregnancy on early childhood development: A prospective cohort study. *Frontiers in Pediatrics*. doi 10.3389/fped/2021.750012.
- Wu, X., Cheng, G., Tang, C., Xie, Q., et al. (2020). Effect of parenting quality on child development at 36-48 months in China. *International Journal of Environmental Research and Public Health.* 17, 8962; doi:10.3390/ijerph17238962
- Yaghini, O., Kelishadi, Rl., Keikha, M., Niknam, M., et al. (2015). Prevalence of developmental delay in apparently normal preschool children in Isfahan, Center Iran. Iran Journal of Child Neurology. 9)3), 17-23.
- Yan, D., et. al (2023). The relationship between home environment and early childhood development of left-behind children under 3 years in rural China, *Infant Behavior and Development*, 71, 101829. https://doi.org/10.1016/j.infbeh.2023.101829
- Yang, C., Xue, Y., Feng, J., Jia, F., et al. (2019). Gross motor developmental dysfunction outcomes in infantile and toddler pediatric intensive care unit survivors. *BMC Pediatrics*. 19:509. https://doi.org/10.1186/s12887-019-1893-9
- Yang, J., Hou, L., Wang, J., et al. (2022). Unfavourable intrauterine environment contributes to abnormal gut microbiome and metabolome in twins. *Gut.* doi: 10.1136/gutjnl-2021-326482
- Yang, K. et al. (2021). Combined association of early explore to long-chain n-3 polyunsaturated fatty acids, mercury and selenium with cognitive performance in 1-year-old infants. *Environmental Research*, October 1121.
- Yao, B., Bian, X., Squires, J., Wei, M., & Song, W. (2010). Cutoff scores of the Ages and Stages Questionnaire-Chinese for screening infants and toddlers. Zhonghua Er Ke Za Shi. *Chinese Journal of Pediatrics*, 48(11), 824–828.
- Yilmaz, A., et al. (2023). Long-term neurodevelopmental effects of exclusively high cord lactate levels in term newborn. *Journal of Maternal-Fetal & Neonatal Medicine*, 10.1080/14767058.2023.2284115
- Yoldas, T., Karakaya, J., Özdemir, G., Engin Erdal, et al. (2021). Comparison of the Parents' Evaluation of Developmental Status and Ages and Stages Questionnaire developmental screening tests in a Eurasian country, *Journal of Developmental & Behavioral Pediatrics*: 42, 6, 450-456 doi: 10.1097/DBP.000000000000012
- Yu, Q., Yang, W., Gao, W., Yao, G., Xu, S., Yan, J., & Bian, X. (2012). Ages and Stages Questionnaire-Chinese predicted the 12-25 months developments of infants aged 4 months. *Modern Clinical Nursing*, 11(9), 6-8.



- Yuan, W.L., Armand, M., Peyre, H., et al. (2024). Associations between perinatal biomarkers of maternal dairy fat intake and child cognitive development: results from the EDEN mother-child cohort. *Eur J Clin Nutr* D. https://doi.org/10.1038/s41430-024-01544-3
- Zhang, C., Zhao, C., Liu, X., Wei, Z., Luo, S. et al. (2017). Inequality in early childhood neurodevelopment in six poor rural counties of China: a decomposition analysis. *International Journal for Equity in Health, 16*:212.
- Zhang, J.Y., et al. (2021) FMR1 allele frequencies in 51,000 newborns: a large-scale population study in China. *World J Pediatrics*, 17, 653-658.
- Zhang, X., Gong Y., et al. (2020). Nutrition in pregnancy and growth in Southwest China (NPGSC) cohort: Design, implementation, and characteristics. *Paediatric and Prenatal Epidemiology*. 10.1111/ppe.12704.
- Zhang, X., Ma, G. & Wu, X. (2024). The amplifier of intergenerational inequalities: parental education, quality of preschool education and early childhood development in China. *Curr Psychol*. https://doi.org/10.1007/s12144-024-06752-5
- Zhao, C., Guan, H., Shi, H., Zhang, J. et al. (2020). Relationships between dietary diversity and early childhood developmental outcomes in rural China. *Maternal and Child Nutrition* 17(2):e13073. DOI: 10.1111/mcn.13073
- Zhao, J. Brinkman, S., et al. (2020). Measuring early childhood development with the Early Human Capability Index (eHCI): a reliability and validity study in China. *BMC Pediatrics*, 20 (1).
- Zhou, F., Huang, P., Wei, X., Guo, Y., et al. (2021). Prevalence and characteristics of social withdrawal tendency among 3-24 months in Child: A Pilot Study. *Frontiers in Psychiatry*, 12:537411. https://doi.org/10.3389/fpsyt.2021.537411
- Zhou, H., Ding, Y., Yang, Y., Zou, S., et al. (2019). Effects on developmental outcomes after cesarean birth versus vaginal birth in Chinese children aged 1-59 months: A cross-sectional community-based survey. *PeerJ.* DOI 107717/peerj.7902.
- Zhou, H. Qu, X., Yang, Y., Ashish, K.C., et al. (2020). Relationship between moderate to late preterm, diet types and developmental delay in less-developed rural China, *Nutritional Neuroscience*, DOI: 10.1080/1028415X.2020.1712534
- Zhou, S., Zhao, C. Huang, X., Li, Z., et al. (2019). Effect of a community-based, integrated and nurturing care intervention on early childhood development in rural China. *Public Health*, 167, 125-135.
- Zirakashvili, M., Gabunia, M., Tatishvili, N., et al. (2017). Cultural adaptation and psychometric validation of the ages and stages questionnaires for use in Georgia. *J Child Fam Stud*, DOI 10.1007/s10826-017-0917-z.



Studies by the authors of ASQ:

- Squires, J., Bricker, D., & Clifford, J. (2010). Developmental Screening Measures: Stretching the Use of the ASQ for Other Assessment Purposes. *Infants & Young Children*, 23(1), 14–22.
- Squires, J., Bricker, D., Twombly, E., & Potter, L. (2009). *ASQ-3 User's Guide*. Baltimore: Paul H. Brookes Publishing Co.
 - O Normative sample of over 18,000 questionnaires across 21 intervals from 2 months to 5.5 years. High reliability (> 90%), internal consistency, sensitivity, and specificity. See http://www.agesandstages.com for ASQ-3 Technical Report for complete psychometric data.
- Squires, J., Potter, L., & Bricker, D., (1999). *The ASQ User's Guide, Second Edition*. Baltimore: Paul H. Brookes Publishing Co.
 - Normative sample of over 8,000 questionnaires, high reliability (> 90%), internal consistency, sensitivity, and specificity. See The ASQ User's Guide, Second Edition for Technical Report on ASQ for complete psychometric data.
- Squires, J., Bricker, D., & Potter, L. (1997). Revision of a parent-completed developmental screening tool: Ages and Stages Questionnaires. *Journal of Pediatric Psychology*, 22(3), 313–28.
- Squires, J., Potter, L., Bricker, D., & Lamorey, S. (1998). Parent-completed developmental questionnaires: Effectiveness with low and middle income parents. *Early Childhood Research Quarterly*, 13(2), 345–354.
- Squires, J. (2000). Early detection of development delays: Parents as first-level screeners. *Journal of Intellectual Disability Research*, 44(3 & 4), 471.
- Squires, J. (1996). Parent completed developmental questionnaires: A low-cost strategy for child find and screening. *Infants & Young Children*, 9(1), 16–28.
- Yovanoff, P., McManus, S., & Squires, J. (2013). Web-based and paper-pencil administration of a developmental questionnaire for young children: Score interpretation using item response theory. *Infants and Young Children*. (26)4, 318-332.

Ages & Stages Questionnaires Inventory Studies

Pitchik, H., et al. (2023). Concurrent validity of the Ages and Stages Questionnaire Inventory and the Bayley Scales of Infant and Toddler Development in rural Bangladesh. *BMC Pediatrics*. 23:93. https://doi.org/10.1186/s12887-022-03800-6

Also see: http://www.agesandstages.com

May 2025