

## Selected List of Published Studies for the NCAST Parent-Child Interaction Scales (Feeding & Teaching scales)

*Below is a subset of peer-reviewed articles using NCAST Programs Parent Child Interaction (PCI) Teaching & Feeding Scales, assessment tools that used for evaluating the quality of the parent child relationship and dyadic interaction from birth through 36 months of age.*

### **NCAST Teaching Scale (NCAT)**

- Anderson, S.E., Lemeshow, S., & Whitaker, R.C. (2014). Maternal-infant relationship quality and risk of obesity at age 5.5 years in a national US cohort. *BMC Pediatrics*, *14*(54).
- Bakermans-Kranenburg, M. J., Van Ijzendoorn, M. H., Mesman, J., Alink, L. R., & Juffer, F. (2008). Effects of an attachment-based intervention on daily cortisol moderated by dopamine receptor D4: A randomized control trial on 1- to 3-year-olds screened for externalizing behavior. *Developmental Psychopathology*, *20*(3), 805-820. doi: S0954579408000382 [pii] 10.1017/S0954579408000382
- Banerjee, P., & Tamis-Lemonda, C. (2007). Infants' persistence and mothers' teaching as predictors of toddlers' cognitive development. *Infant Behavior & Development*, *30*(3), 479-491.
- Bigelow, A. E., Littlejohn, M., Bergman, N., & McDonald, C. (2010). The relation between early mother–infant skin-to-skin contact and later maternal sensitivity in South African mothers of low birth weight infants. *Infant Mental Health Journal*, *31*(3), 358-377. doi: 10.1002/imhj.20260
- Bohr, Y., Halpert, B., Chan, J., Lishak, V., & Brightling, L. (2010). Community-based parenting training: Do adapted evidence-based programmes improve parent-infant interactions? *Journal of Reproductive and Infant Psychology*, *28*(1), 55-68.
- Bornstein, M., Putnick, D., Suwalsky, J., & Gini, M. (2006). Maternal chronological age, prenatal and perinatal history, social support, and parenting of infants. *Child Development*, *77*, 875-892.
- Bronte-Tinkew, J., Zaslow, M., Capps, R., Horowitz, A., & McNamara, M. (2007). Food insecurity works through depression, parenting, and infant feeding to influence overweight and health in toddlers. *The Journal Of Nutrition*, 2160-2165.
- Caughy, M. O. B., Huang, K.-Y., Miller, T., & Genevro, J. L. (2004). The effects of the Healthy Steps for Young Children Program: results from observations of parenting and child development. *Early Childhood Research Quarterly*, *19*(4), 611-630.
- Drummond, J., Letourneau, N., Neufeld, S., Stewart, M., & Weir, A. (2008). Effectiveness of teaching an early parenting approach within a community-based support service for adolescent mothers. *Research in Nursing & Health*, *31*(1), 12-22.
- Duggan, A., Berlin, L., Cassidy, J., Burrell, L., & Tandon, D. (2009). Examining maternal depression and attachment insecurity as moderators of the impacts of home visiting for at-risk mothers and infants. *Journal of Consulting and Clinical Psychology*, *77*(4), 788-799.
- Duggan, A., Caldera, D., Rodriguez, K., Burrell, L., Rohde, C., & Crowne, S. S. (2007). Impact of a statewide home visiting program to prevent child abuse. *Child Abuse & Neglect*, *31*(8), 801-827.
- Gaffney, K. F., Barndt-Maglio, B., Myers, S., & Kollar, S. J. (2002). Early clinical assessment for harsh child discipline strategies. *MCN: The American Journal of Maternal/Child Nursing*, *27*(1), 34-40. doi: 10.1097/00005721-200201000-00011
- Glazebrook, C., Marlow, N., Croudace, T., Johnson, S., White, I., & Whitelaw, A. (2007). Randomised trial of a parenting intervention during neonatal intensive care. *Archives of Disease in Childhood*, *92*, 438-443.

- Goodman, J. H. (2008). Influences of maternal postpartum depression on fathers and on father–infant interaction. *Infant Mental Health Journal, 29*(6), 624-643. doi: 10.1002/imhj.20199
- Goodson, B. D., Layzer, J. I., St.Pierre, R. G., Bernstein, L. S., & Lopez, M. (2000). Effectiveness of a comprehensive, five-year family support program for low-income children and their families: findings from the comprehensive child development program. *Early Childhood Research Quarterly, 15*(1), 5-39.
- Herman, K.C. et al. (2016) Language delays and child depressive symptoms: The role of early stimulation in the home. *Prevention Science, 17*(5), 533-543.
- Kelly, J., Buehlman, K., & Caldwell, K. (2000). Training Personnel to Promote Quality Parent-Child Interaction in Families Who Are Homeless. *Topics in Early Childhood Special Education, 20*(3), 174-185.
- Kolobe, T. H. (2004). Childrearing practices and developmental expectations for Mexican-American mothers and the developmental status of their infants. *Physical Therapy, 84*(5), 439-453.
- Koniak-Griffin, D., Anderson, N. L. R., Verzemnieks, I., & Brecht, M.-L. (2000). A public health nursing early intervention program for adolescent mothers: Outcomes from pregnancy through 6 weeks postpartum. *Nursing Research, 49*(3), 130-138.
- Letourneau, N., Stewart, M., Dennis, C. L., Hegadoren, K., Duffett-Leger, L., & Watson, B. (2011). Effect of home-based peer support on maternal–infant interactions among women with postpartum depression: A randomized, controlled trial. *International Journal of Mental Health Nursing, 1-13*. doi: 10.1111/j.1447-0349.2010.00736.x
- Lugo-Gil, J., & Tamis-LeMonda, C. S. (2008). Family resources and parenting quality: Links to children’s cognitive development across the first 3 years. *Child Development, 79*(4), 1065-1085. doi: 10.1111/j.1467-8624.2008.01176.x
- Luster, T., Bates, L., Fitzgerald, H., Vandenbelt, M., & Key, J. (2000). Factors related to successful outcomes among preschool children born to low-income, adolescent mothers. *Journal of Marriage and the Family, 62*(133-146), 133.
- Luster, T., & Vandenbelt, M. (1999). Caregiving by low-income adolescent mothers and the language abilities of their 30-month-old children. *Infant Mental Health Journal, 20*(2), 148-165.
- Magill-Evans, J., & Harrison, M. J. (1999). Parent-child interactions and development of toddlers born preterm. *Western Journal of Nursing Research, 21*(3), 292-307.
- Martoccio, T.L., Brophy-Herb, H.E., and Onaga, E.E. (2014) Road to readiness: Pathways from low-income children's early interactions to school readiness skills. *Infants & Young Children, 27*(3), 193-206.
- Maupin, A.N. & Fine, J.D. (2014) Differential effects of parenting in preterm and full-term children on developmental outcomes. *Early Human Development, 90*, 869-876.
- McKelvey, L. M., Bokony, P. A., Swindle, T. M., Connors-Burrow, N. A., Schiffman, R. F., & Fitzgerald, H. E. (2011). Father teaching interactions with toddlers at risk: Associations with later child academic outcomes.
- Muir, N., & Bohr, Y. (2014). Contemporary practice of traditional aboriginal child reading: A review. *First Peoples Child & Family Review, 9*(1), 66-79.
- Nagayoshi, M., et al. (2017) Related visual impairment to mother-infant interaction and development in infants with bilateral retinoblastoma. *European Journal of Oncology Nursing, 28*, 28-34.
- Natrasony, C. & Teitelbaum, D. (2016) Watch Me Move: A program for parents of young children with gross-motor delays. *Physical & Occupational Therapy in Pediatrics, 36*(4), 388-400.
- Oxford, M., & Spieker, S. (2006). Preschool language development among children of adolescent mothers. *Journal of Applied Developmental Psychology, 27*(2), 165-182.

- Page, M., Wilhelm, M. S., Gamble, W. C., & Card, N. A. (2010). A comparison of maternal sensitivity and verbal stimulation as unique predictors of infant social-emotional and cognitive development. *Infant Behavior and Development, 33*(1), 101-110.
- Plotka, R. & Busch-Rossnagle, N.A. (2018). The role of length of maternity leave in supporting mother-child interactions and attachment security among American mothers and their infants. *International Journal of Child Care and Education Policy, 12*(2).
- Sadler, L. S., Swartz, M. K., & Ryan-Krause, P. (2003). Supporting adolescent mothers and their children through a high school-based child care center and parent support program. *Journal of Pediatric Health Care, 17*(3), 109-117.
- Sadler, L. S., Swartz, M. K., & Ryan-Krause, P. (2007). Promising Outcomes in Teen Mothers Enrolled in a School-Based Parent Support Program and Child Care Center. *The Journal of School Health, 77*(3), 121-130.
- Singer, L., Fulten, S., Davillier, M., Koshy, D., Salvator, A., & Baley, J. (2003). Effects of infant risk status and maternal psychological distress on maternal-infant interactions during the first year of life. *Journal of Developmental & Behavioral Pediatrics, 24*(4), 233-241.
- Spieker, S., Oxford, M., Kelly, J., Fleming, C., & Nelson, E. (2012). *Promoting First Relationships: Randomized Trial of a Relationship-based Intervention for Toddlers in Child Welfare*. Family and Child Nursing. University of Washington. Seattle, WA.
- Suchman, N., DeCoste, C., Castiglioni, N., Legow, N., & Mayes, L. (2008). The Mothers and Toddlers Program: Preliminary findings from an attachment-based parenting intervention for substance-abusing mothers. *Psychoanalytic Psychology, 25*(3), 499-517.
- Suchman, N. E., DeCoste, C., Leigh, D., & Borelli, J. (2010). Reflective functioning in mothers with drug use disorders: Implications for dyadic interactions with infants and toddlers. *Attachment & Human Development, 12*(6), 567-585. doi: 10.1080/14616734.2010.501988
- Thomas, J., Letourneau, N., Bryce, C., Campbell, T., Giesbrecht, G., APrON Study Team (2017). Biological embedding of perinatal social relationships in infant stress reactivity. *Developmental Psychobiology, 9999*, 1-11.
- Treyvaud, K., Rogers, S., Matthews, J., & Allen, B. (2010). Maternal factors and experiences associated with observed parenting behavior in mothers attending a residential parenting program. *Infant Mental Health Journal, 31*(1), 58-70. doi: 10.1002/imhj.20242
- Wang, P., Morgan, G.A., Hwang, A., Chen, L., & Liao, H. (2014). Do maternal interactive behaviors correlate with developmental outcomes and mastery motivation in toddlers with and without motor delay? *Physical Therapy, 94*(12), 1744-1754.
- Yago, S., et al. (2014). Differences and similarities between father-infant interaction and mother-infant interaction. *Journal of Medical Dental Sciences, 61*, 7-16.
- Zaslow, M., Bronte-Tinkew, J., Capps, R., Horowitz, A., Moore, K. A., & Weinstein, D. (2009). Food security during infancy: Implications for attachment and mental proficiency in toddlerhood. *Maternal & Child Health Journal, 13*(1), 66-80. doi: 10.1007/s10995-008-0329-1

### **NCAST Feeding Scale (NCAF)**

- Anderson, L. S., Riesch, S. K., Pridham, K. A., Lutz, K. F., & Becker, P. T. (2010). Furthering the Understanding of Parent-Child Relationships: A Nursing Scholarship Review Series. Part 4: Parent-Child Relationships at Risk. *Journal for Specialists in Pediatric Nursing, 15*(2), 111-134.

- Armony-Sivan, R., Kaplan-Estrin, M., Jacobson, S. W., & Lozoff, B. (2010). Iron-deficiency anemia (IDA) in infancy and mother-infant interaction during feeding. *Journal of Developmental and Behavioral Pediatrics: JDBP*, 31(4), 326.
- Badr, L. K., Bookheimer, S., Purdy, I., & Deeb, M. (2009). Predictors of neurodevelopmental outcome for preterm infants with brain injury: MRI, medical and environmental factors. *Early Human Development*, 85(5), 279-284.
- Badr, L. K., Garg, M., & Kamath, M. (2006). Intervention for infants with brain injury: Results of a randomized controlled study. *Infant Behavior & Development*, 29(1), 80-90.
- Beel-Bates, C., Stephenson 3rd, P., Nochera, C. L., & French, R. J. (2012). Caregiver-Resident Interaction with Barnard's Feeding Scale. *Research in Gerontological Nursing*, 1.
- Bigelow, A.E., Power, M., Gillis, D.E., Maclellan-Peters, J., Marion, A, \* McDonald, C. (2014) Breastfeeding, skin-to-skin contact, and mother-infant interactions over infants' first three months. *Infant Mental Health Journal*, 35,(1), 51-62.
- Blackwell, P., Kirkhart, K., Schmitt, D., & Kaiser, M. (1998). Cocaine/polydrug affected dyads: Implications for infant cognitive development and mother-infant interaction during the first six postnatal months. *Journal of Applied Developmental Psychology*, 19(2), 235-248.
- Blackwell, P., Lockman, J., & Kaiser, M. (1999). Mother-infant interaction in drug-affected dyads over the first 9 months of life. *Applied Developmental Science*, 3(3), 168-177.
- Bohr, Y., & BinNoon, N. (2014). Enhancing Sensitivity in Adolescent Mothers: Does a Standardised, Popular Parenting Intervention Work with Teens? *Child Care in Practice*(ahead-of-print), 1-15.
- Brandt, K. A., Andrews, C. M., & Kvale, J. (1998). Mother-infant interaction and breastfeeding outcome 6 weeks after birth. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*, 27(2), 169-174.
- Britton, J., Britton, H., & Cronwaldt, V. (2006). Breastfeeding, Sensitivity, and Attachment. *Pediatrics*, 118(5), 1436-1443.
- Bryanton, J., Gagnon, A. J., Hatem, M., & Johnston, C. (2009). Does perception of the childbirth experience predict women's early parenting behaviors? *Research in Nursing & Health*, 32(2), 191-203.
- Byrne, E., & Campbell, S. K. (2013). Physical therapy observation and assessment in the neonatal intensive care unit. *Physical & Occupational Therapy in Pediatrics*, 33(1), 39-74.
- Cho, Y., Hirose, T., Tomita, N., Shirakawa, S., Murase, K., Komoto, K., . . . Omori, T. (2013). Infant Mental Health Intervention for Preterm Infants in Japan: Promotions of Maternal Mental Health, Mother-Infant Interactions, and Social Support by Providing Continuous Home Visits until the Corrected Infant Age of 12 Months. *Infant Mental Health Journal*, 34(1), 47-59.
- Collett, B.R., S. M. (2007). A developmental approach to mental health for children and adolescents with orofacial clefts. *Orthodontics and Craniofacial Research*, 10(3), 138-148.
- Davis, L., Edwards, H., & Mohay, H. (2003). Mother-infant interaction in premature infants at three months after nursery discharge. *International Journal of Nursing Practice*, 9(6), 374-381.
- DiSantis, K., Hodges, E., Johnson, S., & Fisher, J. (2011). The role of responsive feeding in overweight during infancy and toddlerhood: A systematic review. *International Journal of Obesity*, 35(4), 480-492.
- Elliott, M. Ruth and Demianczuk, Nestor and Robertson, Charlene M.T., Infants at Psychosocial Risk and their Caregivers: Selection for Early Intervention - Results of the Pilot Study (August 27, 2014). Available at SSRN: <http://dx.doi.org/10.2139/ssrn.2488161>.
- Fowles, E. R., & Horowitz, J. A. (2006). Clinical assessment of mothering during infancy. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*, 35(5), 662-670.
- Frith, A. L., Naved, R. T., Persson, L. A., Rasmussen, K. M., & Frongillo, E. A. (2012). Early participation in a prenatal food supplementation program ameliorates the negative association of food insecurity with quality of maternal-infant interaction. *The Journal of Nutrition*, 142(6), 1095-1101.

- Frongillo, E. A., Tofail, F., Hamadani, J. D., Warren, A. M., & Mehrin, S. F. (2014). Measures and indicators for assessing impact of interventions integrating nutrition, health, and early childhood development. *Annals of the New York Academy of Sciences*, *1308*(1), 68-88.
- Golen, R. & Ventura, A.K. (2015). Mindless feeding: Is maternal distraction during bottle-feeding associated with overfeeding? *Appetite*, *91*, 385-392.
- Horowitz, J. A., Logsdon, M. C., & Anderson, J. K. (2005). Measurement of maternal-infant interaction. *Journal of the American Psychiatric Nurses Association*, *11*(3), 164-172.
- Hurley, K. M., Cross, M. B., & Hughes, S. O. (2011). A systematic review of responsive feeding and child obesity in high-income countries. *The Journal of Nutrition*, *141*(3), 495-501.
- Jameson, M., Fehringer, K., & Neu, M. (2018) Comparison of two tools to assess dyad feeding interaction in infants with gastroesophageal reflux disease. *Journal for Specialists in Pediatric Nursing*, *23*(1), e12203.
- Lewis, K. D., & Weiss, S. J. (2003). Psychometric testing of an infant risk assessment for prenatal drug exposure. *Journal of Pediatric Nursing*, *18*(6), 371-378.
- Maguire, D.J. et al. (2016) Characteristics of maternal-infant interaction during treatment for opioid withdrawal. *Neonatal Network*, *35*(5), 297-304.
- Mentro, A. M., Steward, D. K., & Garvin, B. J. (2002). Infant feeding responsiveness: A conceptual analysis. *Journal of Advanced Nursing*, *37*(2), 208-216.
- Minnes, S., Singer, L. T., Arendt, R., & Satayathum, S. (2005). Effects of Prenatal Cocaine/Polydrug Use on Maternal-Infant Feeding Interactions During the First Year of Life. *Journal of Developmental and Behavioral Pediatrics*, *26*(3), 194-200.
- Muir, N.M. and Bohr, Y. (2014) Contemporary Practice Of Traditional Aboriginal Child Rearing: A Review. *The First Peoples Child & Family Review*. *9*(1).
- Neu, M., Pan, Z.P., Haight, A., Fehringer, K., & Maluf, K. (2017) Hormonal and neuromuscular responses to breastfeeding: A pilot study. *Biological Research for Nursing*. <https://doi.org/10.1177/1099800417697380>
- Neu, M., Schmiege, S. J., Pan, Z., Fehringer, K., Workman, R., Marcheggianni-Howard, C., & Furuta, G. T. (2014). Interactions During Feeding with Mothers and Their Infants with Symptoms of Gastroesophageal Reflux. *The Journal of Alternative and Complementary Medicine*.
- Parker, M.G., Rybin, D.V., Heeren, T.C., Thoyre, S.M., & Corwin, M.J. (2016) Postdischarge feeding interaction and neurodevelopmental outcome at 1-year corrected gestational age. *The Journal of Pediatrics*, *174*, 104-110.
- Pridham, K. A., Lutz, K. F., Anderson, L. S., Riesch, S. K., & Becker, P. T. (2010). Furthering the understanding of parent-child relationships: A nursing scholarship review series. Part 3: Interaction and the parent-child relationship—Assessment and intervention studies. *Journal for Specialists in Pediatric Nursing*, *15*(1), 33-61.
- Sacco, L. M., Bentley, M. E., Carby-Shields, K., Borja, J. B., & Goldman, B. D. (2007). Assessment of infant feeding styles among low-income African-American mothers: Comparing reported and observed behaviors. *Appetite*, *49*(1), 131-140.
- Shloim, N., Shafiq, I., Blundell-Birtill, P., & Hetherington, M.M. (2018). Infant hunger and satiety cues during the first two years of life: Developmental changes of within meal signalling. *Appetite*, *128*, 303-310.
- Shloim, N., Vereijken, C.M.J.L., Blundell, P., & Hetherington, M.M. (2017) Looking for cues - infant communication of hunger and satiation during milk feeding. *Appetite*, *108*, 74-82.

- Singer, L., Fulton, S., Davillier, M., Koshy, D., Salvator, A., & Baley, J. (2003). Effects of Infant Risk Status and Maternal Psychological Distress on Maternal-Infant Interactions During the First Year of Life. *Journal of Developmental & Behavioral Pediatrics, 24*(4), 233-241.
- Sullivan-Bolyai, S., Deatrick, J., Gruppuso, P., Tamborlane, W., & Grey, M. (2002). Mothers' experiences raising young children with type 1 diabetes. *Journal for Specialists in Pediatric Nursing, 7*(3), 93-103.
- Tallandini, M. A., Morsan, V., & Macagno, F. (2011). Preterm birth and Assisted Reproductive Technology/ART: Maternal emotional wellbeing and quality of mother–newborn interaction during the first three months of life. *Early Human Development*(0). doi: 10.1016/j.earlhumdev.2011.10.003
- Ventura, A.L. & Golen, R.P. (2015) A pilot study comparing opaque, weighted bottles with conventional, clear bottles for infant feeding. *Appetite, 85*, 178-184.
- Weiss, S. J., & Seed, M. S. J. (2002). Precursors of mental health problems for low birth weight children: The salience of family environment during the first year of life. *Child Psychiatry and Human Development, 33*(1), 3-27.
- Weiss, S. J., Wilson, P., & Morrison, D. (2004). Maternal tactile stimulation and the neurodevelopment of low birth weight infants. *Infancy, 5*(1), 85-107.
- Worobey, J. (2018). Feeding sensitivity at 3-months predicts parental feeding style at 3 years. *International Journal of Child Health and Nutrition, 7*, 163-168.
- Worobey, J., Islas Lopez, M., & Hoffman, D. J. (2009). Maternal behavior and infant weight gain in the first year. *Journal of Nutrition Education and Behavior, 41*(3), 169-175.