

ECI Library Matters

Play and Motor Development (updated)

This issue features updated library resources on play and motor development. Abstracts of journal articles on this ECI topic are also included. For a complete listing of library titles, go to the online library catalog at www.texashealthlibrary.com.

Library materials may be borrowed upon request. Electronic library materials may be accessed on any device with internet access. Please email any ECI library requests or questions to avlibrary@dshs.texas.gov.

In This Issue

- **Selected Journal Abstracts**
- **Selected Journal Table of Contents**
 - **Topics in Early Childhood Special Education**
Volume 42, Issue 3; November 2022
 - **Zero to Three Journal**
Volume 43, Issue 1; September 2022
- **New Audiovisuals**
- **New Books**
- **Selected Audiovisuals**
- **Selected Books**
- **Selected eBooks**
- **Selected Websites**
- **Useful Library Information**

Selected Journal Abstracts

Changes in the complexity of limb movements during the first year of life across different tasks. Laudańska, Z., López Pérez, D., Radkowska, A., Babis, K., Malinowska-Korczak, A., Wallot, S., Tomalski, P., Orsucci, F., & Tschacher, W. (2022). *Entropy*, 24(4). <https://doi.org/10.3390/e24040552>

Infants' limb movements evolve from disorganized to more selectively coordinated during the first year of life as they learn to navigate and interact with an ever-changing environment more efficiently. However, how these coordination patterns change during the first year of life and across different contexts is unknown. Here, we used wearable motion trackers to study the developmental changes in the complexity of limb movements (arms and legs) at 4, 6, 9 and 12 months of age in two different tasks: rhythmic rattle-shaking and free play. We applied Multidimensional Recurrence Quantification Analysis (MdRQA) to capture the nonlinear changes in infants' limb complexity. We show that the MdRQA parameters (entropy, recurrence rate and mean line) are task-dependent only at 9 and 12 months of age, with higher values in rattle-shaking than free play. Since rattle-shaking elicits more stable and repetitive limb movements than the free exploration of multiple objects, we interpret our data as reflecting an increase in infants' motor control that allows for stable body positioning and easier execution of limb movements. Infants' motor system becomes more stable and flexible with age, allowing for flexible adaptation of behaviors to task demands.

Effects of email performance feedback on teachers' use of play expansions. Gomez, L., Barton, E. E., Winchester, C., & Locchetta, B. (2021). *Journal of Early Intervention*, 43(3), 235-254.

<https://doi.org/10.1177/1053815120969821>

The purpose of this study was to examine the effectiveness of email-delivered performance feedback to teachers working in inclusive early childhood classrooms. A concurrent multiple probes across-participants design was used to examine the relation between performance feedback delivered via email and teachers' use of play expansions. Results indicated that email was an effective method for delivering performance feedback, subsequently increasing teachers' use of play expansions when individualized to meet the needs of teachers; however, the complexity of children's play behaviors did not increase.

Selected Journal Table of Contents

Topics in Early Childhood Special Education. Volume 42, Issue 3;
November 2022.

Future topics. p. 219

Innovations in parent-implemented interventions in EI/ECSE. p. 220. Fettig, A. & Barton, E. E.

A systematic review of parent-child shared book reading interventions for infants and toddlers. p. 222-233. Lorio, C. M., Delehanty, A. D., & Romano, M. K.

Parent coaching in natural communication opportunities through bug-in-ear technology. p. 234-245. Hamberger, R. J., Evmenova, A. S., Coogle, C. G., & Regan, K. S.

Incorporating video feedback within a parent-implemented naturalistic developmental behavioral intervention package via telepractice. p. 246-258. Ousley, C. L., Raulston, T. J., & Gilhuber, C. S.

Parents outcomes of parent-mediated intervention for toddlers with autism. p. 259-268. Liu, X. & Schertz, H. H.

Understanding families' experiences raising young children with challenging behavior through an ecological lens: A qualitative meta-synthesis. p. 269-281. Freedle, A. & Wahman, C. L.

Conference calendar. p. 282

Author guidelines. p. 283

Zero to Three Journal. Volume 43, Issue 1; September 2022.

CDC's "Learn the Signs. Act Early.": Developmental milestone resources to improve early identification of children with developmental delays, disorders, and disabilities. p. 5-12. Abercrombie, J., Wiggins, L., & Green, K. K.

Promoting good health, strong families, and positive early learning experiences: State of Babies Yearbook: 2022. p. 13-17. Zero To Three Policy Center.

Ensuring every child's success: Early identification of developmental delays and disabilities through the medical home model. p. 18-27. Zubler, J., Kressly, S. J., & del Campo de Gonzalez, S.

Promoting family engagement and early identification of developmental delays: The role of act early ambassadors. p. 28-38. Hall-Lande, J., Buck, D. M., Srinivasavaradan, D., Brown, K. H., Chödrön, G. S., & Weber, S.

Identification of sensory processing and sensory-based movement disorders in infants and young children. p. 39-45. Stallings-Sahler, S. A., & Foley, G. M. with consultation and contributions from Anzalone, M. E.

Toward truly universal screening: Addressing disparities in early childhood screening in pediatric primary care. p. 46-54. Wirtshafter, R. & Lee, D.

The TREEHOUSE program: Promoting early childhood development and parent-child interaction via telehealth in pediatrics. p. 55-65. Candelaria, M., Tellerman, K., Floet, A. M. W., & Whitty, H.

Speech, language, and feeding of children birth to 5 years old and the use of developmental milestone checklists. p. 66-69. McNeill, L. G.

Supporting caregivers in nurturing their young child's development. p. 70. Reschke, K. with Tomcho, M., Melis, L., Skodje-Mack, B., & O'Connell Boogaard, C.

ALSO IN THIS ISSUE

This Issue and Why It Matters. p. 2. Powers, S.

Zero To Three Competencies for prenatal to age 5 professionals:
Understanding the P-5 competency domains. p. 4.

New Audiovisuals

Being with infants: Part 2. DVD. 120 min. 2019. (DD0836)

This program gives child caregivers and parents direct access to a comprehensive care approach from renowned child specialist Beverly Kovach – certified Montessori trainer and consultant for Magda Gerber’s Resources for Infant Educators (RIE). It includes proper bottle feeding, solid feeding, diapering, sleep, play, and much more.

The power of physical play: Development and effective learning.

DVD. 57 min. 2016. (DD0829)

This video examines how physical play aids in the development of children from birth to 7 years old. It explores how children develop effective learning skills and self-regulation. The video shows how important it is for adults to support physical play for children.

The moving child film I: Supporting early development through movement. DVD. 60 min. 2017. (DD0837)

A diverse set of experts explore how dynamic movement is important in physical, emotional, social and mental development. This program shows how awareness of movement from the beginning can support healthy family bonding and positively shape how a child grows.

The moving child film III: Developmental movement in the first years. DVD. 60 min. 2019. (DD0838)

Occupational Therapist Bonnie Bainbridge-Cohen, along with other leading movement development experts, discusses and demonstrates the physical, emotional and cognitive importance of the developmental movement babies engage in their first year.

New Books

Planning in the moment with young children: A practical guide for early years practitioners and parents. Anna Ephgrave, 2018.

Young children live in the here and now. If adults are to make a real difference to their learning they need to seize the moments when children first show curiosity and support their next steps immediately. This book embraces the concept of planning in the moment and emphasizes the critical role of the adult in promoting child-led learning, giving early years practitioners the confidence and insight to work and plan in the moment, and enabling the children in their care to live, learn, play and develop in the here and now.

The toddler brain: Nurture the skills today that will shape your child's tomorrow: The surprising science behind your child's development from birth to age 5. Laura A. Jana, 2017.

This book draws on studies and stories from pediatrics, neuroscience, social science, and childcare, as well as the world of business and innovation to show parents how to equip their children with seven key skills. It explores the importance of play and curiosity, imagination and empathy, and strategically strengthening children's neural connections in their first five years.

Selected Audiovisuals

Active learning for infant-toddlers. [Streaming](#). 37 min. 2012.

The brain: Activity, sleep, and boredom. DVD. 20 min. 2011. (DD0471)

Early interventions for pediatric occupational and physical therapy: A lecture. [Streaming](#). 358 min. 2015.

I want all the turns: Supporting children in resolving problems and conflicts. / Quiero todo los turnos: Apoyar a los niños en la resolución de problemas y conflictos. DVD. 90 min. 2013. (DD0655)

Infant milestones. [Streaming](#) or DVD. 30 min. 2012. (DD0726)

Life with baby: Parenting from birth to 12 months. DVD. 24 min. 2019. (DD0824)

Magic of everyday moments series. DVD. 18 min.; 21 min.; 23 min.; 25 min. 2015. (DD0685; DD0742; DD0743; D0744)

Making sense of play. DVD. 130 min. 2015. (DD0789)

Oh, those little ones! DVD. 42 min. 2012. (DD0774)

Parenting: Play and milestones: 7 to 12 months. DVD. 11 min. 2016. (DD0741)

Parenting: Play and milestones: Birth to 6 months. DVD. 10 min. 2016. (DD0740)

Parenting basics - toddler age 2: Play and milestones. [Streaming](#). 12 min. 2016.

See how they play. DVD. 36 min. 2013. (DD0626)

Selected Books

Baby and toddler basics: expert answers to parents' top 150 questions. Tanya Altmann, 2018. (WS 103 A465 2018 ECI)

Caring for our children: National health and safety performance standards guidelines for early care and education programs, 4th ed. 2019. (LB 1139.23 C277 2019)

The common sense guide to your child's special needs: When to worry, when to wait, what to do. Louis Pellegrino, 2012. (LC 3969

P45 2012 ECI)

Early intervention every day! Embedding activities in daily routines for young children and their families. Merle J. Crawford and Barbara Weber, 2014. (LC 4019.3 C897c 2014 ECI)

An early start for your child with autism: Using everyday activities to help kids connect, communicate, and learn. Sally J. Rogers, 2012. (WM 203.5 R729 2012 ECI)

Encouraging physical activity in infants. Steve Sanders, 2015. (WS 105.5 P5 S215 2015 ECI)

Fine motor skills in children with down syndrome: A guide for parents and professionals, 3rd ed. Maryanne Bruni, 2015. (WS 107 B896f 2015 ECI)

Games to play with babies. Jackie Silberg, 2015. (WS 105.5 P5 S582b 2015 ECI)

Gross motor skills for children with down syndrome: A guide for parents and professionals, 2nd ed. Patricia C. Winders, 2014. (WS 107 W763 2014 ECI)

An integrated play-based curriculum for young children. Olivia N. Saracho, 2012. (655.2 S243 2012 ECI)

The natural laws of children: Why children thrive when we understand how their brains are wired. Celine Alvarez, 2019. (WS 103 A473 ECI 2019)

Occupational therapy activities for kids: 100 Fun games and exercises to build skills. Heather Ajzenman, 2020. (WS 368 A312 2020 ECI)

Supporting development in internationally adopted children. Deborah A. Hwa-Froelich, 2012. (WS 103 H991s 2012 ECI)

Toddlers moving and learning. Rae Pica, 2014. (LB 1139 P585 2014 ECI)

Young children's play: Development, disabilities, and diversity.

Jeffrey W. Trawick-Smith, 2020. (LB 1137 T782 2020 ECI)

This title is also available as an eBook.

Selected eBooks

Activity kit for babies and toddlers at risk: How to use everyday routines to build social and communication skills. Deborah Fein, 2016.

Experts present more than 100 games and activities designed to support development in children from birth to age 3. A child's daily routines are transformed into learning opportunities that promote crucial abilities.

Building brains: 600 activity ideas for young children. Suzanne Gellens, 2013.

Six hundred brain-based, developmentally appropriate activity ideas expand young children's learning. This book is filled with open-ended ideas that early child professionals can execute in a variety of ways, depending on children's needs and interests. Ideas are organized by age - from age zero to five - and learning domains.

Enhancing learning through play: A developmental perspective for early years settings, 2nd ed. Christine Macintyre, 2012.

Written to support early childhood professionals, this book explains why children need to play and offers practical guidance on how best to support children's development and learning through play.

Let them play: An early learning (un)curriculum. Denita Dinger and Jeff A. Johnson, 2012.

This (un)curriculum is all about supporting child-led play, trusting children as capable and engaged learners, and forgoing prescribed activities. The authors explain the guiding principles of an (un)curriculum and how it gives children the freedom to play, including suggestions for

creating spaces that promote healthy development and learning, and supporting those who believe in the learning power of play.

Play therapy: The art of the relationship, 3rd ed. Gary Landreth, 2012. This comprehensive text describes the process of creating therapeutic relationships with children through play. It details the author's Child-Centered Play Therapy model, which stresses the importance of understanding the child's world and perspective.

Play therapy with families: A collaborative approach to healing. Nancy Riedel Bowers, 2014.

This book contains a unique approach for helping families, outlining an in-depth review of play and its relevancy to healing for children and families. Bowers explains the Collaborative Play Therapy Model.

Retro baby: Cut back on all the gear and boost your baby's development with more than 100 time-tested activities.

Anne H. Zachary, 2014.

Baby bouncers, carriers, electronic toys, and "educational" videos are intended to make our children smarter and our lives easier, but can their overuse negatively impact infant development? Absolutely. This book helps caregivers understand the potential dangers of extended equipment use and overexposure to technology.

A sourcebook for sensorimotor learning. Lisa Kurtz, 2014.

Using materials that are readily-available in most households or that can be purchased or homemade at a very low cost, these games and activities are appropriate for all children, including those with autism, ADHD, and other learning challenges. It has clear descriptions on how to carry out each activity, helpful illustrations, and ways to adapt activities according to the child's individual needs.

Teach me with pictures: 40 fun picture scripts to develop play and communication skills in children on the autism spectrum.

Ruth Harris, 2013.

This book provides fun and practical ideas to help motivate and extend communication and play skills in children with autism with the support of

pictures. The book describes how picture scripts can help facilitate play and learning and provides 40 scripts across a range of different activities such as drawing, cooking, using construction toys, imaginative play, arts and crafts, and social games. Tasks are presented in small manageable step-by-step picture sequences and support a range of skills including following instructions, increasing independence, comprehension, story-telling, and choice-making.

Typical and atypical motor development. David Sugden, 2013.

This book describes motor development from conception through emerging adulthood. It explains motor development from a number of theoretical, empirical, and experiential perspectives.

Young children’s play and environmental education in early childhood education. Amy Cutter-Mackenzie-Knowles, Susan Edwards, Deborah Moore, and Wendy Boyd, 2014.

The authors suggest ways for young children to have meaningful engagement with the outdoors and the environment through play.

Selected Websites

American Journal of Play is a free, online journal that offers research and resources related to play that is made available from [The Strong: National Museum of Play](#).

Boston Children’s Museum has created a website to promote play as a vital activity that children use to learn about and interact with their world. It offers online resources on the following topics:

- Play and Learning
- Play and Health
- Play and Language Development
- Play and Social-Emotional Development
- Play and Creativity
- Play and Cultural Differences.

Extension Alliance for Better Child Care, a part of the [Cooperative](#)

Extension System, is funded by a grant under USDA National Institute of Food and Agriculture. This website is for those interested in childcare and early childhood education.

Fat Brain Toys provides information on special needs toys and materials that are based entirely on customer feedback. Each listing is accompanied by detailed reviews written by real parents, teachers, and therapists.

Inclusion Matters by Shane's Inspiration is an international non-profit fostering a bias-free world for children with disabilities through the creation of inclusive playgrounds and educational programs that unite children of all abilities worldwide.

Thinkery, located in Austin, is where children and their families come to enjoy play-based, inquiry-rich, hands-on learning experiences. Through a variety of hands-on, interactive STEAM (science, technology, engineering, arts, and math) exhibits and programs, Thinkery encourages physical, emotional and cognitive development for young learners and fosters joyful curiosity for all ages. Its target ages are newborns through eleven years old, but its interactive experiences are designed to engage learners of all ages!

US Play Coalition is a partnership that promotes the value of play throughout life. It is an international network of individuals and organizations that recognize play as a valuable and necessary part of a healthy and productive life. The coalition hosts conferences and educational trainings, encourages and conducts research and provides avenues of communication about the value of play worldwide. Membership is free, and simply requires a declaration of shared commitment to the value of play through its "Get Involved" page.

Useful Library Information

HHSC ECI Website
ECI Library Matters

Library Website
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Texas Department of State Health Services ECI Library Services

E-mail: avlibrary@dshs.texas.gov

Phone: 512-776-7260

Toll-free: 1-888-963-7111 ext. 7260

Fax: 512-776-7474

Hours: Monday-Friday, 7:30 a.m.-5:00 p.m.

Physical Address: 1100 W. 49th St. Moreton Building, 6th floor, Room M-652, Austin, TX 78756

Mailing Address: PO Box 149347, Mail Code 1955, Austin, TX 78714-9347