



REFERENCES

Homeostasis as the Foundation for Feeding

Erin Sundseth Ross, Ph.D., CCC-SLP

Timing: 28:15 minutes

This webinar focuses on the influence of early birth and medical comorbidities on Homeostasis, and the influence of Homeostasis on learning and feeding outcomes. Homeostasis is the foundation for all development and influences the ability and desire to eat. The first challenge for a baby after birth is to establish internal regulation. Brain development requires both a certain level of core stability and repeated experiences. This webinar discusses the theories of dynamic systems and learning. These concepts provide the professional caregiver with an understanding of the importance of stability and the influence of experiences on both short- and long-term feeding outcomes.

OBJECTIVES:

- List the four subsystems of the Synactive Organization of Behavioral Development
- Define “Homeostasis” as it relates to development

AGENDA:

Dynamic Systems Theories: 0:00 – 11:44

Classical Conditioning and Eating: 11:44-17:30

Learned Avoidance and Eating Outcomes: 17:30-28:15

REFERENCES:

- Als, H. 1982. 'Toward a synactive theory of development: Promise for the assessment and support of infant individuality', *Infant Mental Health Journal*, 3: 229-43.
- Crapnell, T., C. Rogers, J. Neil, T. Inder, L. Woodward, and R. Pineda. 2013. 'Factors associated with feeding difficulties in the very preterm infant', *Acta Paediatr*, 102: e539-45.
- Demauro, S. B., P. R. Patel, B. Medoff-Cooper, M. Posencheg, and S. Abbasi. 2011. 'Postdischarge feeding patterns in early- and late-preterm infants', *Clin Pediatr (Phila)*, 50: 957-62.
- Edelman, G.M. 1987. *Neural Darwinism. The Theory of Neuronal Group Selection* (Basic Books, Inc.: New York).
- Gallardo, M, D Contreras, and J Keith. 2017. 'Development of feeding skills in preterm infants: a critical literature review', *Revista CEFAC*, 19: 539-50.
- Johnson, S., R. Matthews, E. S. Draper, D. J. Field, B. N. Manktelow, N. Marlow, L. K. Smith, and E. M. Boyle. 2016. 'Eating difficulties in children born late and moderately preterm at 2 y of age: a prospective population-based cohort study', *Am J Clin Nutr*, 103: 406-14.

- Jonsson, M., J. van Doorn, and J. van den Berg. 2013. 'Parents' perceptions of eating skills of pre-term vs full-term infants from birth to 3 years', *Int J Speech Lang Pathol*, 15: 604-12.
- Kish, M. Z. 2013. 'Oral feeding readiness in preterm infants: a concept analysis', *Adv Neonatal Care*, 13: 230-7.
- Migraine, A., S. Nicklaus, P. Parnet, C. Lange, S. Monnery-Patris, C. Des Robert, D. Darmaun, C. Flamant, V. Amarger, and J. C. Roze. 2013. 'Effect of preterm birth and birth weight on eating behavior at 2 y of age', *Am J Clin Nutr*, 97: 1270-7.
- Pavlov, I. P., and G. V. Anrep. 1927. *Conditioned reflexes : an investigation of the physiological activity of the cerebral cortex* (University Press: Oxford).
- Ross, E. 2017. "Feeding Model for SOFFI method." In.
- Sweeney, J. K., C. B. Heriza, Y. Blanchard, and S. C. Dusing. 2010. 'Neonatal physical therapy. Part II: Practice frameworks and evidence-based practice guidelines', *Pediatr Phys Ther*, 22: 2-16.
- Toomey, K.A., and E. Ross. 2011. 'SOS Approach to Feeding', *Perspectives in Swallowing and Swallowing Disorders*, 20: 82-87.
- Wang, Y-W., H-Y. Hung, C-H. Lin, C-J. Wang, Y-J. Lin, and Y-J. Chang. 2018. 'Effect of a Delayed Start to Oral Feeding on Feeding Performance and Physiological Responses in Preterm Infants: A Randomized Clinical Trial', *The Journal of Nursing Research*, 26: 324-31.