

Advanced Practice for the Complex Neonate:

Strategies for Success in the NICU, PICU and SICU

Anjanette Lee, MS, CCC/SLP, CNT



Faculty

Anjanette Lee, MS, CCC/SLP, CNT, NTMTC has over 25 years' experience in the NICU, receiving NIDCAP certification in 1999 and then helping her NICU's quality improvement team incorporate family centered, neuroprotective, and neuropromotive care practices as standards of care. As an imbedded NICU therapist, she is passionate about sharing knowledge with and utilizing all members of the neonate's care team to support best neurodevelopmental outcomes. As a result, Anjanette provides ongoing education and mentorship for other Neonatal Therapists and NICU staff both within her hospital system and across the nation. Anjanette is certified in Neonatal Touch & Massage and was one of the first Certified Neonatal Therapists in the nation. She has co-authored chapters in Kenner & McGrath's 1st edition of *Developmental Care of Newborns & Infants*, and Case-Smith & O'Brien's 7th edition of *Occupational Therapy for Children*. She serves as co-leader of the National Association of Neonatal Therapists Professional Collaborative and has co-authored NANT's Neonatal Therapy Core Scope of Practice and Practice Competencies for the Neonatal Therapist. Anjanette also serves on the NANT national conference planning committee and is part of the teaching faculty for the NANT Ignite program.
Disclosure: Financial: Ms. Lee receives a speaking fee from Education Resources, Inc. Non-Financial: No non-financial disclosures to report.

About this Course

This course will provide in-depth knowledge of the general prenatal and postnatal physiologic processes of common neonatal cardiac, respiratory, and neurologic diagnoses along with the developmental consequences and physiologic obstacles faced by pre-term and full-term infants born with these diagnoses. Recent research will be reviewed to bring the neonatal therapist up to date on long-term outcomes as well as current and possible future medical management and developmental interventions. Identification and synthesis of medical, caregiving, family/social, and diagnostic information will be a strong focus to ensure therapists can immediately apply advanced critical thinking skills and strategies to their caseloads. Topics approached from an integrated neuroprotective NICU team framework will include handling, positioning, oral care, feeding/swallowing and sensory processing. Infant directed intervention with implications for frequency and intensity will be discussed. A strong focus will be placed on developmental appropriateness, research efficacy, and both professional and family caregiver education. The use of videos and real life experience will make this course engaging, interactive and functional to any clinician looking to make an impact for the infants on their caseload with complex medical issues.

Objectives

- 1 Describe the in-depth anatomy and physiology of disordered functions of the Cardiac, Respiratory and Neurologic Systems, along with the possible positive and negative impacts of various medical and therapeutic interventions.
- 2 Explain how each comorbidity impacts neurodevelopment and the attainment of typical milestones in pre-term and full-term infants.
- 3 Analyze the research reporting on long-term outcomes for infants with complex medical histories.
- 4 Apply appropriate strategies, across all therapy domains, to improve short-term and long-term outcomes in these infants.
- 5 Explain how to create a "multidisciplinary team" for all infants, with the focus being strong collaboration with parents and other medical providers.
- 6 Incorporate theories of neuro-developmental care and family-centered care into clinical practices

Help your patients achieve better outcomes.

Schedule – Day 1 9:40 am to 5 pm EST (US)

- 9:40-10:00** Webinar Registration/Zoom Course Opens
- 10:00-12:00** Typical development of the respiratory system & application for the Neonatal Therapist
- Anatomy and Physiology
 - The Pump & The Load
 - Rib cage, accessory muscles, diaphragm development
 - Fetal - Newborn - 3 Months
- Neonatal Respiratory Conditions
- Each condition to include discussion of disordered physiology and expected bedside presentation, diagnostic assessments and medical interventions, clinical reasoning, developmental impact, and long-term developmental outcomes
- Full-term pathology - Meconium Aspiration Syndrome, Persistent Pulmonary Hypertension
 - Pre-term pathology - Bronchopulmonary Dysplasia/Chronic Lung Disease
 - Term/Preterm pathology - Pneumothorax, Pleural Effusion
 - Congenital anomalies - Diaphragmatic Hernia, Choanal Atresia, Laryngeal Cleft
- 12:00-12:15** Break
- 12:15-2:00** Neonatal Respiratory Conditions (cont'd)
- Other Respiratory Considerations - Tracheostomy, Neuromuscular Disorders
- Habilitative Strategies - Part 1
- Respiratory Devices, neurodevelopmental impact, and developmental outcomes.
- Mechanical Ventilation - Conventional, Jet, Oscillatory
 - Nasal CPAP - Conventional, Bubble, Variable Flow
 - Hi Flow Nasal Cannula
- Habilitative Strategies - Part 2

Schedule – Day 1 (Continued) 9:40 am to 5 pm EST (US)

- 2:00-2:30** Lunch
- 2:30-4:00** Respiratory Therapy: roles and interprofessional collaboration
- Breathing as a Team Sport
 - Sharing Neuroprotective Knowledge to Support Optimal Respiratory Function
- Typical development of the cardiac system and application for the Neonatal Therapist
- Anatomy and Physiology
 - Fetal - Newborn - 3 Months
- Physiology of Heart Failure
- 4:00-4:15** Break
- 3:15-5:00** Neonatal Cardiac Conditions
- Each condition to include discussion of disordered physiology and expected bedside presentation, diagnostic assessments and medical interventions, clinical reasoning, developmental impact, and long-term developmental outcomes
- Acyanotic Defects – Patent Ductus Arteriosus, Ventricular Septal Defect, Atrial Septal Defect, Atrioventricular Septal Defect, Aortic Stenosis, Coarctation of the Aorta
 - Cyanotic Defects – Transposition of the Great Arteries
 - Cyanotic Defects – Tetralogy of Fallot, Tricuspid Atresia, Pulmonary Atresia, Hypoplastic Left Heart Syndrome
- Habilitative Considerations and Strategies

Schedule – Day 9:40 am to 5 pm EST (US)

- 9:40-10:00** Webinar Registration/Zoom Course Opens
- 10:00-12:00** Typical Development of the neurologic system and application for the Neonatal Therapist
- Anatomy and Physiology
 - Fetal – Newborn – 3 Months
- Neonatal Neurologic Conditions
- Each condition to include discussion of disordered physiology and expected bedside presentation, diagnostic assessments and medical interventions, clinical reasoning, developmental impact, and long-term developmental outcomes
- Congenital Conditions – Neural Tube Defects, Neuromuscular Disorders
 - Acquired Conditions – Hypoxic Ischemic Encephalopathy, Intraventricular Hemorrhage, Periventricular Leukomalacia, Posthemorrhagic Hydrocephalus
- 12:00-12:15** Break
- 12:15-2:00** Physiology of Seizures
Physiology of Abnormal Tone
Prematurity: Impact on Postnatal Brain Development
- Neural Plasticity
 - Basic Science of Neural Enrichment and Deprivation
 - Early Relational Trauma & Neurobiological Alterations
- Neuroprotective Care Guiding Concepts and Appropriate Intervention Strategies
- Healing Environment
 - Safeguarding Sleep
 - Optimizing Nutrition

Schedule – Day 2 (Continued) 9:40 am to 5 pm EST (US)

- 1:00-1:30** Lunch
- 1:30-3:00** Neuroprotective Care Guiding Concepts and Appropriate Intervention Strategies (cont'd)
- Minimizing Stress & Pain
 - Protecting Skin
 - Positioning & Handling
 - Partnering with Families
- Intervention Strategies
- Handling & Positioning
 - Sensory Processing
 - Oral Feeding
- 3:00-3:15** Break
- 3:15-5:00** Parent & Staff Education Considerations for Optimizing Family-Centered Care and Neuroprotection
- Educator Attitudes, Knowledge, and Skills
 - Disparities in NICU Quality of Care
- Neonatal Therapy Practice Paradigm Shift
- Advanced Practice
 - Integrative Model
 - Transdisciplinary Model
- Putting it all together - Case Studies – Working a Differential Diagnosis – Seeing all the Parts to the Puzzle

Audience

This conference is intended for professionals who work with children with feeding difficulties including Speech Pathologists, Occupational Therapists, Special Educators, Early Intervention Specialists, Nurses, Physicians, Dietitians, Mental Health Workers, other Child Care Providers and Educators.

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This program has been submitted for approval of 14 clock hours of continuing education credit by the TX Speech Language-Hearing-Association (TSHA). TSHA approval does not imply endorsement of course content, specific products or clinical procedures.

Most Physical Therapy State Boards accept webinars as a live offering. Application has been made to the NJ Board of Physical Therapy Examiners. Approved sponsor by the State of IL Department of Financial and Professional Regulation for Physical Therapy for 16.5 contact hours.

Application has been made to the IL EI training program. Approved provider by the NY State Board of Physical Therapy for 16.8 contact hours (1.68 CEUs).

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The following state boards of physical therapy either do not require course pre-approval or do not require CEUs for re-licensure: **AL, CO, CT, IA, MA, ME, MT, NE, ND, NH, SD, WA**.

12 hours of this course qualify towards the discipline-specific hours for the 20-hour requirement for NDTA re-certification. They do NOT qualify towards the 8-hour NDTA Instructor requirement for re-certification. This course meets the criteria for 12 hours that can be applied toward the Neonatal Therapy National Certification.

Please contact us with any special needs requests: info@educationresourcesinc.com or 800-487-6530. Please contact us with any special needs requests: info@educationresourcesinc.com or 800-487-6530.

WEBINAR DATES AND TIMES

January 14 and 15, 2022

9:40am EST • 8:40am CST • 7:40am MST • 6:40am PST

Registration is for both sessions. Zoom log-in instructions and course materials will be emailed/added to your ERI account 5-7 days prior to the webinar.



\$369 fee. **LIMITED ENROLLMENT** Cancellation will be accepted until 14 days prior to the start date of the course, minus a \$75 Administration Fee. There will be NO REFUNDS after this 14 day deadline. Registration will be accepted after deadline on a space available basis. We encourage you to register online!

**WEBINAR: Advanced Practice for the Complex Neonate:
Strategies for Success in the NICU, PICU and SICU/AJ Lee**
 January 14 and 15, 2022

Course Registration Form

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Education Resources reserves the right to cancel any course due to insufficient registration or extenuating circumstances. We are not responsible for any expenses incurred by participants if the course must be cancelled.

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