Comprehensive Pediatric Rehabilitation for the Neurologic Therapist

Speakers:
Lindsay Beaty, OTR/L, PT; Denise Cortes, PT, DPT, MBA, PCS; Teresa Cramer, PT, DPT; Dawn McDonald, OTR, CLT; M. Cullen Gibbs, PhD; Stacey Hall, DO; Anne Paré, CO/LO; Carly Thom, OTR, PhD

General Info

Open to: Physical Therapists (PT), Physical Therapy Assistants (PTA), Occupational Therapists (OT), Occupational Therapy Assistants (OTA)

Course date: Saturday, August 17, and Sunday, August 18, 2019

Time: Saturday: Registration at 7:30 a.m., lecture: 8 a.m. to 4:30 p.m.
Sunday: Registration at 7:30 a.m., lecture: 8 a.m. to 3:15 p.m.

Location: Memorial Hermann Greater Heights Hospital - TIRR Memorial Hermann
1635 North Loop West
Houston, Texas 77008
(I-610 and Ella Blvd., The Heights)

Parking: Closest parking in Garage 2; http://tirr.memorialhermann.org/locations/inpatient-rehabilitation-greater-heights/

Class size: Limited to 40 attendees

**Handouts:** Electronic handouts will be shared with all attendees prior to the course via email as they are made available by the presenters. Please print or download the materials prior to the course for your use. Wi-Fi is available to all; however, we cannot ensure connectivity at all times.

**Overview**

**Description**
This comprehensive course is designed to take the neurologic therapist and expose them to pediatric diagnoses from birth to adulthood, including the unique role of the therapist in the school and private therapy settings. It will take into special consideration the NICU, motor development, neuropsychological development and behavioral considerations. The foundational information will be expanded to include an understanding the basic components of assessment, orthotic intervention, specialized equipment, and the complex nature of pediatric goal setting.

**Learning objectives:** Upon completion of this course, participants will be able to:

1. Identify three common diagnoses encountered in the neonatal ICU.
2. Report on the Synactive Theory of Development and interpret implication for therapy services with infants in the neonatal ICU.
3. Compare and contrast the four pre-dominate developmental theories: Neural-Maturationist, Cognitive Behavioral, Cognitive Piagetian and Dynamical Systems Theory.
4. Identify the stages of motor development, and analyze how they relate to cognitive development.
5. Describe the basic behavioral principles that support effective behavior-modification strategies.
6. Identify common behavioral problems and disorders that may affect child compliance with interventions.
7. Understand and apply two behavioral strategies within everyday clinical practice settings.  

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8. Participants will gain understanding of roles of school-based practitioner vs. clinical practitioner.
9. Participants will understand the Full Individual Evaluation (FIE) process and role of a related service.
10. Participants will gain understanding of scope of practice and goals addressed in schools.
11. Participants will gain understanding of collaboration with school-based practitioners when reviewing FIE / Individualized Education Plan (IEP).
12. Summarize two key factors for medical spasticity management and specific considerations with the pediatric population.
13. Relate the indications, risks and benefits of phenol motor point blocks / neurolysis and botulinum toxin injections to patients and families.
14. PTs will categorize eight treatment strategies as the building blocks to function as related to spasticity management in therapeutic treatment plans.
15. OTs will be able to perform at an entry level the OT Pediatric standardized evaluations presented. OTAs will be able to discuss with generalized knowledge the pediatric standardized evaluations.
16. Categorize the types of orthotics and equipment commonly used in children with disabilities, and analyze their effect on functional ability.
17. Identify three standard pieces of equipment to improve the longer-term patient goals for mobility and Activities of Daily Living (ADLs).
18. Discuss plan of care and development of goal setting based on case studies.

**Assessment of learning objectives:** Discussion, course feedback

**Required for course completion:** Attendance, participation, completed feedback form
Speakers

Lindsay Beaty, OTR/L, PT
Lindsay is dual certified as a physical and occupational therapist working for TIRR Memorial Hermann in Sugar Land, where she treats adult and pediatric patients with neurological conditions. Her specialties are pediatrics and aquatics. Lindsay received her Doctor of Physical Therapy (DPT) in 2008 and her Master of Occupational Therapy (MOT) in 2007, both from the University of St. Augustine in St. Augustine, FL, as a student of their dual degree program. She received her Bachelor of Science with emphasis in Kinesiotherapy in 2005 from the University of Southern Mississippi. She is certified as an infant massage instructor and is working on her aquaticist certification through ATU.

Speaker disclosures and conflicts of interest
Financial: TIRR Memorial Hermann employee
Non-financial: None reported

Denise Cortes, PT, DPT, MBA, PCS
Denise Cortes received her bachelor’s degree in physical therapy in 1991 from the University of Texas Medical Branch in Galveston, TX. She completed a Masters of Business Administration in 2009 and a Doctor of Physical Therapy in 2014. Denise is a pediatric clinical specialist with certification in 2000 and recertification in 2010. She is active with the American Board of Physical Therapy Specialties program, where she served as an item writer for the pediatric certification exam and a member of the Pediatric Specialty Council. Denise is currently the manager of rehabilitation services at Memorial Hermann Memorial City Medical Center. Her management interests include staff development, process improvement and employee engagement. In addition to her management responsibilities, she provides direct patient care in the Neonatal Intensive Care Unit (NICU), with clinical interests in neonatal therapy, acute care and oncology. She presented education courses at national and state conferences, hospitals and local physical-therapy schools. In additional to
professional roles, she is involved in her community as a Girl Scout troop leader and a volunteer for Boy Scouts, youth sports, her local school and her church.

Speaker disclosures and conflicts of interest
Financial: MHHS employee
Non-financial: None reported

Teresa Cramer, PT, DPT
Teresa graduated with her Master of Physical Therapy in 1992 from Texas Woman’s University and received her Doctorate of Physical Therapy (DPT) from Temple University in 2010. She began working at TIRR in 1993 and currently serves as the pediatric clinical coordinator of outpatient services at TIRR Memorial Hermann Outpatient Rehabilitation. Teresa was certified as a pediatric clinical specialist from 2008 to 2018. As a senior staff member, she has served as a clinical instructor and peer mentor. Teresa has served as a lab instructor for treating patients with SCI, BI and stroke for Texas Woman’s University’s DPT program and is a lecturer / lab instructor for pediatric spasticity management series sponsored by Medtronic. She has also worked for the Houston Community College Physical Therapy Assistants program on the Management of Cerebral Origin Spasticity in Children and Adults.

Speaker disclosures and conflicts of interest
Financial: TIRR Memorial Hermann employee
Non-financial: None reported

M. Cullen Gibbs, PhD
Cullen Gibbs is a licensed clinical neuropsychologist at TIRR Memorial Hermann Adult and Pediatric Outpatient Rehabilitation. He completed a PhD in School and Clinical Child Psychology at Texas A&M University. His pre-doctoral internship and post-doctoral fellowship in clinical neuropsychology were completed at the University of Minnesota Medical School. Cullen previously worked at Children’s National Medical Center in Washington, D.C., and Texas Children’s Hospital in Houston. He has worked at TIRR Memorial Hermann since 2010, performing neuropsychological evaluations, cognitive (continued)
rehabilitation and clinical research of people with brain injuries. His clinical and research interests include cognitive rehabilitation and the neurocognitive and neurobehavioral correlates of traumatic brain injury, stroke, sports concussions and neurodevelopmental disorders.

**Speaker disclosures and conflicts of interest**
Financial: TIRR Memorial Hermann employee
Non-financial: None reported

**Dawn McDonald, OTR, CLT**
Dawn has been an occupational therapist (OT) since 1984. She began her career at TIRR Memorial Hermann working with patients who have had either a stroke or brain injury – on both the inpatient and outpatient teams. Dawn was involved with program development for a post-acute brain injury program focused on return to work, school and independent living. For the next step in her career, Dawn worked with Klein ISD for 23 years in school-based practice. She held positions within Klein ISD focused on program development, staffing and management of OT services for students receiving OT services and for other students receiving assistive technology (AT) services. Dawn also focused on implementing system-wide AT throughout Klein ISD after she received three years of training with the Region 4 Education Service Center for Systemic AT Training. Dawn was the district representative for the OT/PT advisory committee at the Region 4 Education Service Center. She returned to TIRR Memorial Hermann-The Woodlands in 2015, where she has the pleasure of working with the pediatric program and lymphedema patients.

**Speaker disclosures and conflicts of interest**
Financial: TIRR Memorial Hermann employee
Non-financial: None reported
Stacey Hall, DO
Dr. Hall is a clinical assistant professor of pediatric rehabilitation medicine at McGovern Medical School at The University of Texas Health Science Center at Houston (UTHealth). She completed her residency in physical medicine and rehabilitation at Loyola University Medical Center in Chicago in 2012. Dr. Hall then did a two-year pediatric rehabilitation medicine fellowship at Gillette Children’s Specialty Healthcare in St. Paul, Minnesota, completing this in 2014. She received her medical degree in osteopathic medicine from the Michigan State University College of Osteopathic Medicine in 2008.

Dr. Hall is also a member of the American Academy for Cerebral Palsy and Developmental Medicine and the International Society of Physical and Rehabilitation Medicine. She is board certified in physical medicine and rehabilitation and pediatric rehabilitation medicine. Her clinical and research interests include tone management, cerebral palsy and myelomeningocele.

Speaker disclosures and conflicts of interest
Financial: UTHealth, McGovern Medical School at UTHealth employment relationship; Ispen-Dysport Phase IV Study Principal Investigator
Non-financial: TIRR Memorial Hermann, Shriner’s Children’s Hospital and Children’s Memorial Hermann

Carly Thom, OTR, PhD
Carly is the occupational therapy clinical coordinator at TIRR Outpatient Adult and Pediatric Rehabilitation. She received her MA in occupational therapy from the University of Southern California in 2005 and her PhD from Texas Woman’s University in 2017. Carly also has a Bachelor of Arts in psychology from the University of Nebraska. She has been working as an occupational therapist with pediatrics since she began her career in 2005, specializing in pediatric neurological disorders. Carly focuses on optimizing occupational therapy service provision for children and their families. Clinically, she has a special interest in working with children aged birth to two years.

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Speaker disclosures and conflicts of interest
Financial: TIRR Memorial Hermann employee
Non-financial: American Occupational Therapy Association (AOTA) and Texas Occupational Therapy Association (TOTA) Member

Guest Speakers

Anne Paré, CO/LO
Anne W Paré, certified orthotist, is currently a practicing orthotist specializing in pediatrics in Houston. She is the founder and part owner of Hope Orthotics, an ABC-accredited facility, and member of AOPA. Anne graduated from the University of Texas Southwestern Allied Health Sciences School in 1993 and completed a pediatric internship at the Texas Scottish Rite Hospital in Dallas in 1994. She worked as a staff orthotist at The Institute for Rehabilitation and Research in Houston before opening Hope Orthotics.

For over 20 years, Anne has specialized in pediatrics, spinal cord and brain injuries, working closely with many therapists and healthcare professions to provide superior service and quality care to the Greater Houston area. She has been active in both Texas and national conferences in orthotics and prosthetics and has spoken on the subjects of the orthotic management of the pediatric patient on multiple occasions. Anne’s current clinical focus is on improving the quality and efficiency of her patients’ gait through analysis using the GAITrite and ZENO Gait Electronic Walkways and the Protokinetics Movement Analysis Software in conjunction with orthotic intervention.

Speaker disclosures and conflicts of interest
Financial: Paid employee of Dienen Company, which is the parent company of both Surestep and Hope Orthotics; research and teach education courses for Surestep as a regular part of job duties. Anne sees patients locally at Hope Orthotics for specialty gait clinics; and is a minority owner in all 16 clinical O&P practices owned by Dienen Company across the United States, including Hope Orthotics.
Non-financial: None reported

Speaker disclosures and conflicts of interest
Policy and procedures exist whereby all speakers must disclose any relationships which may cause a conflict of interest. Any relevant financial (continued)
and non-financial relationships will be disclosed via speaker agreement and written notification after agreement and prior to presentation.

## Program Schedule

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<tr>
<th>Time</th>
<th>Day 1</th>
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<tbody>
<tr>
<td>7:30 a.m. – 8 a.m.</td>
<td>Registration and light refreshments</td>
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<tr>
<td>8 – 10 a.m.</td>
<td>NICU Environment and Treatment</td>
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<td></td>
<td>Denise Cortez, PT, DPT, MBA, PCS</td>
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<tr>
<td>10 – 10:15 a.m.</td>
<td>Break</td>
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<tr>
<td>10:15 – 12 p.m.</td>
<td>Developmental Sequence: Lifespan and Treatment Philosophies</td>
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<td></td>
<td>(Emphasizing Clinical Pearls from pre-work)</td>
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<td>Teresa Cramer, PT, DPT</td>
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<tr>
<td>12 – 1 p.m.</td>
<td>Lunch provided</td>
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<td>1 – 2:30 p.m.</td>
<td>Neuropsychology</td>
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<td>M. Cullen Gibbs, PhD, Clinical Neuropsychologist</td>
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<td>2:30 – 2:45 p.m.</td>
<td>Break</td>
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<td>2:30 – 3:30 p.m.</td>
<td>School-Based Therapy</td>
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<td>Dawn McDonald, OTR, CLT</td>
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<td>3:30 – 4:15 p.m.</td>
<td>Return to school</td>
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<td>M. Cullen Gibbs, PhD, Clinical Neuropsychologist</td>
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<tr>
<th>Time</th>
<th>Day 2</th>
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<tr>
<td>7:30 – 8 a.m.</td>
<td>Registration and light refreshments</td>
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<tr>
<td>8 – 8:45 a.m.</td>
<td>Spasticity Management in the Pediatric Population</td>
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<td>Stacey Hall, DO</td>
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<td>8:45 – 10 a.m.</td>
<td>PT Treatment Applications: Teresa Cramer, PT, DPT</td>
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<td>OT Evaluations: Lindsey Beaty, OTR/L, PT</td>
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<td>10 – 12 p.m.</td>
<td>Orthotics, Wearable Strapping</td>
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<td>Anne Pare’, CO/LO</td>
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<td>12 – 12:30 p.m.</td>
<td>Break</td>
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<td>12:45 – 2:30 p.m.</td>
<td>Pediatric Equipment: including bathing, walkers, standers, BWS, gait</td>
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<td>trainers, Teresa Cramer, PT, DPT, and Carly Thom, OTR, MA, PhD</td>
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<tr>
<td>2:30 – 3 p.m.</td>
<td>Goal setting, case studies (including return to school), group</td>
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<td>discussions, Q&amp;A</td>
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3 - 3:15 p.m. Feedback forms, sign out, departures

Instructional methods used: PowerPoint with lecture, group discussion, equipment demonstration

Education

Attendance
Participants must attend the entire course in order to receive Continuing Education Units / Continuing Competency Units (CEUs/CCUs) and a course certificate. No partial credits will be given.

Target audience
PT, PTA, OT, OTA clinicians looking to advance their clinical expertise as neurologic therapists treating in a pediatric rehabilitation setting.

Instructional level: Intermediate

OT: Memorial Hermann Health System is an American Occupational Therapy Associations (AOTA) approved provider of continuing education. The assignment of AOTA CEUs does not imply endorsement of specific course content, products or clinical procedures from AOTA.
AOTA CEU: 1.2 CEUs or 12 contact hours
AOTA classification code: Occupational Therapy Process-Intervention.
Instructional level: Intermediate
No partial credits will be given.

PT: Memorial Hermann Health System is a Texas Physical Therapy Association (TPTA) approved provider of continuing education. This course meets continuing competence requirements for physical therapist and physical (continued)
therapist assistant licensure renewal in Texas.
TPTA CCUs: 12.25 CCUs

No partial credits will be given.

Registration

Registration limited to: 40. Registration closes at capacity or by Friday, August 9, 2019.

Cost/registration
Non-employee: $175; MHHS Rehab Service Line employee: $75. MHHS employees must register with their MHHS email addresses to receive the employee benefit.

Cancellation fee
Refunds, minus 25% administrative fee, will be granted if a cancellation notice is received in writing according to the stated cancellation policy below.

Cancellation policy
If you register and do not attend, or do not fulfill the requirements of the class, your course and all other associated fees will not be refunded. All cancellations must be in writing 14 days prior to the course start date to ContinuingEducationRegistration@memorialhermann.org. Refunds will not be granted past this date.

Cancellation of the event by TIRR Memorial Hermann will result in a full refund of monies received.

Cancellation by the sponsor/instructor will result in a full refund of the tuition. Sponsor/instructor is not responsible for additional expenses incurred by registrants.

TIRR Memorial Hermann reserves the right to cancel or change any programs for due cause. Cancellation of the event by TIRR Memorial Hermann will result in a full registration refund of monies received. TIRR Memorial Hermann is not responsible for the refund of travel or hotel expenses under any circumstances. In the event of a course cancellation, participants will be notified via email and contact phone number on the registration form below. Please fill out all information in the registration form.

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Assistance
All participants in Memorial Hermann continuing-education courses are entitled to an accessible, accommodating and supportive teaching and learning environment. Please email or note on the registration form any specific needs we can work to assist you with.

Complaints
Complaints of faculty and participants are handled with dignity and respect by the course coordinator and/or director of rehabilitation, with resolution of the complaint communicated to all involved parties.

Questions
Call 713.797.7432, or email ContinuingEducationRegistration@memorialhermann.org.