

**REGISTRATION**

You can also register online at multicare.org

**Please register me for the following course:**

**Visualizing Muscle Activity: Using Surface EMG to Enhance Function for Children with CP**

**April 4, 2014**

**Cost:** \$125

**Credit:** 7 Education Clock hours (.7 CEUs)

Name \_\_\_\_\_

Address \_\_\_\_\_

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State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone (h) \_\_\_\_\_

Profession \_\_\_\_\_

Workplace \_\_\_\_\_

Phone (w) \_\_\_\_\_

E-mail \_\_\_\_\_

**Mail registration & payment to:**

**Children's Therapy Unit**

Attn: CTU Education Secretary  
402-15th Ave SE, Suite 100  
Puyallup, WA 98372

or fax to: 253.697.5145

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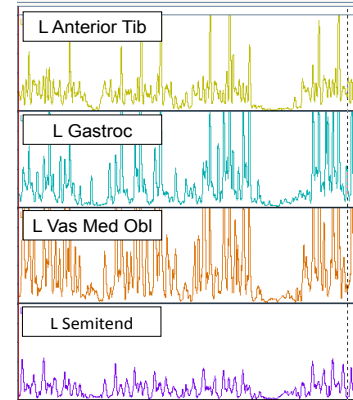
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(Rev. 10/2013)

# Annual Neurodevelopmental Treatment Symposium

## Visualizing Muscle Activity: Using Surface EMG to Enhance Function for Children with CP

April 4, 2014  
Tacoma, WA



**Skipping SEMG for Child with Left Hemiplegia**

[multicare.org](http://multicare.org)

**Presenters:**

David Embrey, PT, PhD  
Brett Nirider, PT, C/NDT  
Brenna Brandsma, PT, DPT, PCS

**Supported by:**

The Vallarta Neurodevelopmental Program  
(NDP) Endowment Fund

**MultiCare**  
**Good Samaritan**

Children's Therapy Unit

## Visualizing Muscle Activity: Using Surface EMG to Enhance Function for Children with CP

### COURSE DESCRIPTION

Surface EMG provides insight to help guide comprehensive management for children with cerebral palsy. Discover advantages and limitations of SEMG to enhance treatment strategies including facilitation, equipment, and tone management. SEMG allows clinicians to test assumptions and see actual muscle activity during treatment interventions. Case examples and live demonstration will open your eyes to successful functional treatment activities.

Please view this short segment from the Discovery Channel's Health Heroes Program for more information regarding the SEMG work of the CTU Movement Lab: <http://www.multicare.org/goodsam/ctu-video>.

### COURSE OBJECTIVES

At the completion of this seminar, participants will:

1. Understand the use of surface EMG: advantages, limitations, and proper applications for children with CP.
2. Visualize the impact of treatment through surface EMG recordings.
3. Recognize how surface EMG can refine and validate intervention strategies to improve function.
4. Participate in discussion regarding case examples and treatment strategies.

## MultiCare Pediatric Therapy Services

MultiCare Pediatric Therapy Services at Mary Bridge Children's Hospital & Health Center and Good Samaritan Children's Therapy Unit provide early, comprehensive interdisciplinary diagnostic evaluations, individual therapy, educational and social services and follow up care for children with developmental deficits and neurological disorders.

### GENERAL INFORMATION

**Where:** Jackson Hall Medical Center  
314 Martin Luther King Jr.  
Tacoma, WA 98405

**When:** Friday,  
April 4, 2014

Registration: 8 – 8:30am  
Course: 8:30 – 5pm

**Cost:** \$125

**Credit:** 7 Education Clock hours (.7 CEUs)

**Contact:** CTU Education Program  
Normajean Friend  
253.697.5225  
[normajean.friend@multicare.org](mailto:normajean.friend@multicare.org)

### Cancellation/Refunds:

Full refund of the course registration fee, less \$25 administration fee, will be granted upon receipt of written request post marked 14 days prior to date of class. We reserve the right to cancel any course due to insufficient registration or extenuating circumstances. Please do not make non-refundable travel arrangements until you have called us and received confirmation that the course will be held. We are not responsible for any expenses incurred by participants if the course must be cancelled.

### Registration:

Online at [multicare.org](http://multicare.org). Click "Family Care" on top left side, click on "Children's Therapy Unit" on bottom left side, then click "Classes & Support Groups" top right side, or return form.

**[www.multicare.org/ctuclasses](http://www.multicare.org/ctuclasses)**

### PRESENTERS

With 38 years experience, **David Embrey, PT, PhD**, is a clinician, teacher, researcher, inventor and former tenured professor. For 12 years SEMG has directed his clinical practice as seen on the Discovery Channel (Google: "Health Heroes MultiCare"). His work includes 24 peer-review articles and over a million dollars in grant funding. He was awarded the APTA Foundation's Researcher of the Month Nov. 2010.

**Brett Nirider, PT**, is a physical therapist at MultiCare Good Samaritan Children's Therapy Unit with more than 32 years of pediatric experience. He has had training and experience in both NDT and sensory integration, and has taught an eight-week pediatric NDT course, as well as assisted with the NDT baby treatment course. He particularly enjoys instructing therapists who have limited experience or exposure to NDT, and has been teaching doctors and therapists in China for the past 11 years.

**Brenna Brandsma, PT, DPT, PCS**, is a physical therapist at MultiCare Good Samaritan Children's Therapy Unit. She has 8 years of pediatric experience, including 5 years as a researcher at the MultiCare Movement Lab. She became a Pediatric Certified Specialist in 2012. Her areas of interest include early intervention, motor control/learning, and applying research into clinical practice.

**The Neurodevelopmental Program (NDP) - Education Endowment Fund** was established at Mary Bridge Children's Foundation by Josefina M. Vallarta, MD. Dr. Vallarta is a Child Neurologist, Founder & First Medical Director of the Neurodevelopmental Program at Mary Bridge Children's Hospital and Health Center in Tacoma, WA. The NDP Endowment has funded continuing education for the NDP team and caregivers. It has supported pediatric therapists to acquire certification in Neurodevelopmental Therapy which is an ever evolving and advanced therapeutic approach to treat children with neuromotor deficits, posture and movement disorders and advanced therapeutic approach to treat children with neuromotor deficits, posture and movement disorders.