WVPTA 2014 Winter Conference

Cutting Edge of Stroke Research: Implications and Applications for PT Practice

November 8th, 2014
WVU Health Sciences Center
Fukushima Auditorium

Hosted by:
West Virginia University Division of Physical Therapy
Robert C Byrd Health Sciences Center
Morgantown, WV 26506

6 Hour CE Course*

Thank you to the 2014 WVPTA Partners:

Charleston Area Medical Center  HEALTHSOUTH  *GENTIVA*

*Courses offered by WVPTA are automatically approved for CE units by the WV Board of Physical Therapy. Approval of this course does not necessarily imply that the WV Board of Physical Therapy supports the views of the presenter or sponsor.
**Schedule:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8-8:30a</td>
<td>Registration</td>
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<tr>
<td>8:30-8:45a</td>
<td>Welcome/WVU Stroke Center</td>
<td>Mary Beth Mandich, PT, PhD</td>
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<td>8:45a-9a</td>
<td>At the Cutting Edge of Stroke Research/COBRE</td>
<td>Jim Simpkins, PhD</td>
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<tr>
<td>9-9:30a</td>
<td>Can the initial cardiovascular response to the stroke predict outcome?</td>
<td>Paul Chantler, PhD</td>
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<td>9:30-10a</td>
<td>Control redundancy and task dexterity before and after stroke</td>
<td>Sergiy Yakovenko, PhD</td>
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<td>10-10:20a</td>
<td>BREAK</td>
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<tr>
<td>10:20-11a</td>
<td>Recent findings on how the change in neural activity after a stroke leads to arm motor impairment.</td>
<td>Valeriya Gritsenko, PhD</td>
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<tr>
<td>11-11:30a</td>
<td>DEMONSTRATION of motor control laboratory technology</td>
<td>Valeriya Gritsenko, PhD</td>
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<tr>
<td>11:30-12p</td>
<td>The Stroke Page: What happens when a person comes to the ED with CVA</td>
<td>Martha Power, C-FNP</td>
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<td>12-1p</td>
<td>LUNCH</td>
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<tr>
<td>1-1:45p</td>
<td>Interventional Neuroradiology in Management of Stroke</td>
<td>Jeff Carpenter, MD</td>
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<td>1:45-2:30p</td>
<td>Surgical Options: Accepted and Cutting Edge Management of Stroke</td>
<td>Charles Rosen, MD</td>
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<td>2:30-2:45p</td>
<td>BREAK</td>
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<tr>
<td>2:45-4p</td>
<td>Implications for the Physical Therapist</td>
<td>MaryBeth Mandich, PT, PhD</td>
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<tr>
<td>4-4:30p</td>
<td>Wrap Up and Questions</td>
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**Biography of Presenters:**

1. **Mary Beth Mandich, PT, PhD** is both the Associate Dean for WVU School of Medicine Professional Programs and Chair of the WVU Division of Physical Therapy. Dr. Mandich joined WVU in 1980 and has been chairperson of the PT program since 1995. Her areas of clinical interest include neuroscience and pediatrics, especially neonatal care and follow-up. She has worked on numerous research and clinical service projects related to provision of care for adults and children with neurologic conditions. She has presented her work on stroke outcomes and health disparity in rural Appalachia at regional and national meetings.

2. **Jim Simpkins, PhD** is a Professor in the WVU Department of Physiology & Pharmacology as well as the Research Director for the Center for Basic & Translational Stroke Research. His research interests include causes and treatment for Alzheimer’s Disease and stroke. He has nearly 50 publications in the past 5 years in these various areas of interest.

3. **Paul Chantler, PhD** is an Assistant Professor in the WVU Division of Exercise Physiology. He received his doctoral degree in Liverpool England in 2004 and did a postdoctoral fellowship at NIH in Baltimore, MD. His research interests include the interactions of aging, lifestyle, and various disease states and their impact on cardiovascular structure and function at rest and
during exercise. He has expanded this to include how various interventions can be incorporated into a high cardiovascular disease risk community setting in Appalachia. He has both university and nationally funded research projects resulting in numerous publications. He has also reviewed for several national and international journals as well as authored several textbook chapters.

4. **Sergiy Yakovenko, PhD** is an Assistant Professor in the WVU Division of Exercise Physiology. He received his doctoral degree in Neuroscience from the University of Alberta in Canada and subsequently performed a fellowship at the University of Montreal in Canada. The focus of his research is to study the coordinated action of neural, muscular, and skeletal systems controlling goal-directed and stereotypic movements. He has 10 recent research publications in this area. He joined West Virginia University in 2011.

5. **Valeriya Gritsenko, PhD** is an Assistant Professor in the WVU Division of Physical Therapy. She has received her doctoral degree in Neuroscience from the University of Alberta in Canada under the direction of Dr. Arthur Prochazka. She subsequently performed a postdoctoral fellowship at the University of Montreal in Canada under the direction of Dr. John Kalaska and Dr. Paul Cisek. She has been on faculty at WVU since 2011 with a primary research appointment in the Department of Human Performance / Physical Therapy in the School of Medicine. She also has an adjunct appointment in the Department of Mechanical and Aerospace Engineering in the Benjamin M. Statler College of Engineering and Mineral Resources. Her research focus and interest includes human sensorimotor control and novel treatment methods to assist in recovery following damage to the nervous system. She contributes her research expertise and perspective to the WVU Physical Therapy Program.

6. **Charles Rosen, MD, PhD** is the Chair of the Department of Neurosurgery at West Virginia University. He is board-certified in Neurological Surgery and his areas of expertise include Cerebrovascular Surgery, Cervical Spine Disease, Chiari Malformation, Cranial Base Surgery, Gamma Knife, Neuro-Oncology, Neurosurgical Oncology, and Pituitary Surgery. His research interests focus on cerebral ischemia.

7. **Jeff Carpenter, MD** is a Professor in the WVU Department of Radiology. He is board certified in Radiology and his areas of expertise include interventional radiology and neuroradiology. He is part of a team at WVUH that is utilizing a new high definition, 3T MRI for improved diagnostic and interventional procedures. He is a West Virginia University School of Medicine graduate who completed his residency at University of Pittsburgh and fellowships in neuroradiology and interventional radiology at Johns Hopkins University.

8. **Martha Power, C-FNP**, is a Certified Family Nurse Practitioner and the WVU Stroke Center Stroke Care Coordinator within the Department of Neurology.

**Course Objectives:**

At the end of this conference, participants should be able to:

1. Describe the components of a comprehensive stroke center, such as the one at West Virginia University, including the relationship between provision of high quality clinical care and funded research programs.
2. Name and describe the cascade of cardiovascular events that are associated with the stroke event, including which parameters are correlated to prognosis for mortality and morbidity.
3. Discuss current motor control research related to functional outcome in individuals post-stroke.
4. Describe how coordinated action of muscles produces motion in people with and without neurologic deficit due to stroke.
5. Describe the current medical management of stroke, including the rapid response in the Emergency Department and the coordination of care including interventional radiology, neurology and neurosurgery.
6. Describe the outcomes of individuals who have had a stroke after receiving care at a stroke center, including mortality and morbidity.
7. Relate the basic science and clinical practice guidelines to the delivery of physical therapy.
REGISTRATION FORM

3 Easy Ways to Register:

1. Fax this form to the State Chapter office - 304-733-6486
2. Website: www.wvpta.org (click Registration Form)
3. Mail this form and check (make checks payable to WVPTA) to the WVPTA (see mailing address below)

Please Print

NAME
PRACTICE/COMPANY NAME
ADDRESS
CITY
STATE
ZIP
WORK PHONE
HOME/CELL PHONE
EMAIL ADDRESS

Registration Fees*

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<tr>
<th>WVPTA/APTA Members</th>
<th>Non-Members</th>
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<tr>
<td>PT</td>
<td>PTA</td>
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<tr>
<td>$175</td>
<td>$145</td>
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*Registration fees include admittance to the course, access to course materials, CE Certification, Continental Breakfast, Snacks and Lunch.

Will you be joining us for lunch? □ Yes □ No

Mark all that apply: □PT □PTA □Student

APTA/WVPTA Membership Number __________

Total Amount Enclosed $______________

Cancellation Policy: Cancellations received by October 24th, 2014 will receive full refund of the registration fee, less $25 for processing. No refunds after October 24th, 2014, 5:00 pm EST.

WVPTA GOING GREEN FOR 2014 WINTER COURSE

This year in an effort to go green, course materials will be available to registrants on the website prior to and after the course. You will receive information about accessing the course materials once you have registered. Course handouts will NOT be provided onsite. The location has available Wi-Fi if you would like to utilize your electronic devices to view the handouts during the course or please print the materials prior to arrival.

West Virginia Physical Therapy Association – 650 Main St, Barboursville, WV 25504 – 304-733-6484