PWR!Moves® Instructor Training and Certification Workshop

Date
June 29-30, 2019

Location
Boxing 4 Health
1796 Woodward Dr.
Ottawa, ON K2C 0P7

Eligible Participants
Certified Personal Trainers, Group Fitness Instructors, PTs, PTAs, OTs, OTAs, and individuals holding a 2 or 4-year degree in a health, exercise science, recreation, or physical activity-related field with at least 2 years of experience

Registration Fees
$550 USD per person
$525 USD per person for groups of 2 or more

Get $100 USD off using coupon code OCANADA

For more information, email us at workshops@pwr4life.org, and to register online, visit www.pwr4life.org.

Implement PD-specific research-based exercise programs now!
Help people with Parkinson disease get better and stay better with exercise!
PWR!Moves® Instructor Workshop Training and Certification Course Description

Recent advances in basic and clinical science research suggest that exercise and learning approaches that promote aerobics and skill acquisition may protect vulnerable neurons, repair damaged circuits, and optimize function in people with Parkinson disease (PD). Participants will learn a PD-specific approach to skill acquisition called PWR!Moves. PWR!Moves is a standalone exercise program that can also be integrated into other exercise approaches. The Basic 4 | PWR!Moves (PWR! Up, PWR! Rock, PWR! Twist, PWR! Step) are building blocks for everyday movement and are always performed with large amplitude, high effort, and attention to action in multiple positions (prone, supine, all 4’s, sitting, standing). Participants will learn how to use these foundational PWR!Moves exercises to target symptoms that interfere with everyday movement.

- Rigidity—PWR!Moves are performed slowly, rhythmically, and with sustained effort.
- Bradykinesia—PWR!Moves are performed as fast as possible with repetitive effort.
- Incoordination—PWR!Moves are linked together into linger and longer sequences that mimic everyday movement.
- Automaticity—PWR!Moves are performed in conjunction with everyday motor and cognitive tasks.

This course will provide participants with the background and skills to apply an evidence-based PD-specific approach to teaching group fitness classes or personal training. Participants will learn two group exercise class formats (PWR!Moves Group or PWR!Moves Circuit). Both of these class formats can be adapted for individuals with minimal to moderate levels of disease severity. Participants will have the opportunity to participate in PWR!Moves classes, develop class activities, and teach PWR!Moves while interacting with PWR! faculty and people with Parkinson disease during the workshop.

Participants will also be introduced to how to implement essential principles of learning and neuroplasticity rooted in exercise science, motor control, and motor learning research. When applied, these principles combine to help people with PD achieve optimal improvement to quality of life, function, and symptoms, and slow the progression of PD. Instructors will learn to use the group class structure, feedback, and a variety of instructional methods to empower and educate class participants. The course will emphasize promoting an environment well-suited to learning that embraces an atmosphere of empowerment, motivation, social enrichment, and fun! The goal for individuals with PD is that they not only improve their performance in the class, but that they learn to recognize when they need to self-correct their slow/small movements for better movement, posture, and balance in everyday life.
Objectives and Goals
Upon completion of the course, participants will be able to:

1. Implement general knowledge of PD including who gets it, what causes it, its major symptoms, and how it impacts function (e.g., mobility, balance, flexibility, coordination) in individuals with PD.

2. Describe how medications, deep brain stimulation, and symptoms (motor and non-motor) may affect an individual’s ability to participate in and benefit from exercise.

3. Outline ways to design an aerobics program that is PD-specific.

4. Explain the significance of targeting the training of amplitude into function (PWR!Moves®) as the foundation for a PD-specific program.

5. Teach the Basic 4 | PWR!Moves in different positions (prone, supine all 4’s, sitting, standing) in a group format.

6. Explain how the goals of PREPARE, ACTIVATE, and FLOW target the primary symptoms of PD and incorporate examples of each concept.

7. Identify how each of the Basic 4 | PWR!Moves, in combination with different positions, can be used to target common PD-specific problems related to flexibility, strength, coordination, balance, and posture.

8. Demonstrate how each of the PWR! Boosts can be integrated into PWR!Moves exercises and be prepared to discuss their purpose and their importance.

9. Use modeling, mental imagery, voice, cues, instruction, and reward-based feedback to achieve optimal alignment, motor output (effort), and engagement.

10. Discuss how PWR!Moves can be integrated into function/ADL/lifestyle during a class activity.

11. Explain how PWR!Moves may be implemented across settings (therapy or community), and reinforced in other community research-based exercise programming (e.g., treadmill, cycling, pole walking, yoga, boxing, dance, Tai Chi).

12. Demonstrate how PWR!Moves in different positions may be adapted for individuals with different disease severity levels or comorbidities.

13. Integrate the PWR!Moves into a circuit format using more typical fitness equipment or other approaches that require individuals to work more independently, and demonstrate how its difficulty or complexity may be increased for different individuals.

14. Describe high-risk fall activities and scenarios, as well as means of reducing fall risk during a class (e.g., using attentional strategies, cues, equipment, class organization, feedback, and modeling/mental imagery).
**PWR!Moves® INSTRUCTOR WORKSHOP SCHEDULE - DAY 1**

**YELLOW = Practicum sessions with PwP**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:30 am</td>
<td>Registration</td>
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<tr>
<td>8:00 am</td>
<td>Introduction / <strong>PWR!</strong> vision for healthcare for PwP (people with Parkinson disease)</td>
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<tr>
<td>8:30 am</td>
<td>Overview of PD / symptoms</td>
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<tr>
<td>9:30 am</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>9:45 am</td>
<td>Exercise as medicine in Parkinson disease – The why, what, and how</td>
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<tr>
<td>11:00 am</td>
<td>Basic 4</td>
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<tr>
<td></td>
<td>- Basic 4</td>
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<tr>
<td></td>
<td>- Prepare / Activate</td>
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<tr>
<td></td>
<td>- Connect to symptoms (rigidity, bradykinesia, incoordination)</td>
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<tr>
<td></td>
<td>- Boosts integrated</td>
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<tr>
<td>12:30 pm</td>
<td>LUNCH (on your own)</td>
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<tr>
<td>1:30 pm</td>
<td>**Basic 4</td>
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<tr>
<td>2:30 pm</td>
<td>Highlights / discussion of Basic 4</td>
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<tr>
<td>2:45 pm</td>
<td>Continue with Intro to Basic 4</td>
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<tr>
<td>3:30 pm</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>3:45 pm</td>
<td>**Basic 4</td>
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<td>- Basic 4</td>
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<tr>
<td>4:30 pm</td>
<td>Teach us one of the <strong>PWR!Moves®</strong> - group class activity</td>
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<td></td>
<td>- Use Section 2 to practice a PREPARE, ACTIVATE, and focus on a BOOST</td>
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<tr>
<td>4:45 pm</td>
<td>**Basic 4</td>
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<td>- Teach your <strong>PWR!Moves®</strong> to the group</td>
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<td>- Review manual: checklist / teaching tips / <strong>PWR!Moves®</strong> class variations</td>
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<tr>
<td>5:30 pm</td>
<td><strong>End of Day 1</strong></td>
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PWR!Moves® INSTRUCTOR WORKSHOP SCHEDULE - DAY 2

**YELLOW = Practicum sessions with PwP**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Introduction to learning principles – Exercise4BrainChange® techniques</td>
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<tr>
<td>8:45 am</td>
<td>Overview typical PWR!Moves circuit format</td>
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<td>• Introduce equipment and demo a circuit station progression</td>
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<tr>
<td>9:15 am</td>
<td>Develop a PWR!Moves circuit station (~10 stations) with 3-4 variations</td>
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<td>(Assign equipment / PWR!Moves participation – partners)</td>
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<tr>
<td>9:50 am</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>10:00 am</td>
<td><strong>PWR!Moves circuit – participation with PwP</strong></td>
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<td>With a partner, take turns instructing your station with each volunteer</td>
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<td>Additional progressions - complexity, evolutions, partner format, pole walking</td>
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<tr>
<td>11:30 am</td>
<td>Equipment practicum</td>
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<tr>
<td>12:00 pm</td>
<td><strong>LUNCH (on your own)</strong></td>
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<tr>
<td>1:00 pm</td>
<td>Highlights of PWR!Moves circuit demo class – class description / templates</td>
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<td></td>
<td>Review E4BC chart and implementation</td>
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<td>Discuss adaptations / modifications</td>
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<td>1:30 pm</td>
<td><strong>Getting Started</strong></td>
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<td>• Screening / class criteria / equipment / technology / volunteers</td>
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<tr>
<td>2:15 pm</td>
<td>Exercise4BrainChange® essentials review / barriers</td>
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<td>• Empowerment / reducing stress - importance of social support (breathing,</td>
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<td>mediation, education, etc.), counseling, and education</td>
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<tr>
<td>2:45 pm</td>
<td>Becoming part of a PWR!Moves exercise expert network – therapy / community</td>
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<tr>
<td></td>
<td>• Class descriptions / credentials</td>
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<tr>
<td>3:00 pm</td>
<td>End of Day 2 – THE END!</td>
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<td>Feedback forms / certificates</td>
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WELCOME TO THE PARKINSON EXERCISE REVOLUTION!
Faculty

Becky G. Farley, PhD, MS, PT

Dr. Farley received a PhD in Neuroscience from the University of Arizona, a Master of Science in Physical Therapy from the University of North Carolina, and a Bachelor of Physical Therapy from the University of Oklahoma. She has over 30 years of experience in neurological rehabilitation and is currently the CEO/Founder of the nonprofit Parkinson Wellness Recovery | PWR®, and a Physiology Associate at the University of Arizona. During her post-doc, Dr. Farley studied bradykinesia, developed the LSVT BIG® exercise program, and completed an NIH funded randomized clinical trial documenting its' short-term efficacy (3-months).

Dr. Farley is now training clinicians and fitness professionals to be PD-exercise experts to ensure the foundations of large amplitude functional training and other essential research-components are implemented into a comprehensive PD-specific exercise and integrated throughout the Parkinson's community. She is advocating that local PD-exercise experts join forces to allow people with PD to have access to comprehensive neuroplasticity-principled exercise programming for life, beginning at diagnosis. This is the type of paradigm shift that is necessary to truly slow disease progression. On February 2012, the doors to the first PWR!Gym®, a Model Community Neuro Fitness Center for people with Parkinson disease, were opened in Tucson, AZ to truly implement Exercise AS Medicine.

Jennifer Bazan-Wigle, PT, DPT

Dr. Jennifer Bazan-Wigle began her first career with a Bachelor of Science in Education from Northern Arizona University teaching science for the Department of Defense Schools in the Netherlands, South Korea, Japan, and Germany and for the Miami-Dade School District in Miami, FL. In 2010, Jennifer graduated with a Doctor of Physical Therapy from Nova Southeastern University in Ft. Lauderdale, FL. Her primary area of physical therapy practice has focused on neurological rehabilitation. She is currently the Lead PWR!Gym® Physical Therapist and participates in research, community presentations and continuing education courses as part of the PWR!Moves® Faculty.

Claire McLean, DPT, NCS

Dr. Claire McLean is a Board Certified Neurologic Clinical Specialist. She graduated with a doctorate in physical therapy from the University of Southern California and has specialty training through the University of Southern California/Rancho Los Amigos Neurologic Physical Therapy Residency program.

At Hoag Hospital, an NPF Care Center, Dr. McLean works in the outpatient rehabilitation clinic primarily with clients with neurologic dysfunction with an emphasis on Parkinson’s disease and other movement disorders. She is on an interdisciplinary assessment and intervention team for patients prior to, and after receiving DBS surgery. Dr. McLean also coordinates and instructs multiple community exercise classes for individuals with PD following physical therapy.

Dr. McLean also is an Adjunct Faculty member instructing in USC’s entry-level doctorate program. She has instructed in continuing education courses on the topics of self-efficacy and executive function training for patients with neurologic dysfunction as well as for the LSVT®BIG program. Dr. McLean has research experience working as an intervention therapist on the LEAPS (Locomotor Experience Applied Post-Stroke) trial, and on multiple studies investigating the effect of exercise in people with Parkinson disease. She was the primary blinded evaluator for the California sites of the ICARE (Interdisciplinary Comprehensive Arm Rehabilitation Evaluation) trial.
References


