Advanced Pediatric Gait Analysis

January 14th 2022

Shirley Ryan Abilitylab

355 East Erie Street
Chicago, IL 60611
Elaine Owen has been practicing as a physical therapist since the 1970s and specializes in pediatrics and adult neurology. She has postgraduate qualifications in Lower Limb Orthotic Biomechanics (University of Strathclyde) and Clinical Gait Analysis (University of Strathclyde). She has an MSc in Rehabilitation Studies, which included a thesis about orthotic management of neurological conditions, normal standing and gait. She is ESMAC trained in Clinical Gait Analysis. For 25 years she has used a video vector gait laboratory for gait analysis, and orthotic and physical therapy management of children and adults, at Bangor Child Development Centre, UK and other locations. She has regularly been invited to teach her course and lecture internationally. As well as through her own courses these principles have been presented at the International Society for Prosthetics and Orthotics (ISPO) Triennial World Congress, American Academy for Cerebral Palsy and Developmental Medicine (AACPDM), American Academy of Orthotists and Prosthetists (AAOP) and the European Society of Movement Analysis of Adults and Children (ESMAC). She has received a UK national award (MBE) for services to children with disability and in 2019 AAOP awarded her the Clinical Creativity Award.
ADVANCED PEDIATRIC GAIT ANALYSIS (1-Day)

NOTE: Prerequisite for this course is to have attended a Pediatric Gait course facilitated by Elaine Owen, MSc, SRP, MCSP in the past.

COURSE DESCRIPTION

This online live course is intended primarily for pediatric physical therapists and orthotists with a working knowledge of pediatric gait assessment. This online course will provide an in depth analysis of “AFO footwear combination” design to optimize gait. Participants will have an opportunity to discuss videos and the surrounding clinical decision-making skills involved in gait analysis and orthotic design. Elaine's algorithms will be extensively reviewed through video examples. Upon completion of the course, participants will be able to apply the principles directly into their working practice.

Successful completion:
During the online portion of the course, participants must sign in and complete an online evaluation.

COURSE OBJECTIVES

- **Identify, Distinguish and Discuss** the kinematics and kinetics of pathological gaits, gait deviations at segments and joints and categorization of pathological gaits by segment deviation.
- **Distinguish and Defend** the assessments required to determine the optimum sagittal angle of the ankle in an AFO.
- **Demonstrate** the use of a clinical algorithm to determine the optimum ankle angle in an AFO during patient case examples and live patient gait analyses.
- **Integrate** designing, aligning and tuning concepts and the use of an algorithm to determine optimum prescriptions for a variety of patient case examples
- **Demonstrate** use of an algorithm for designing, aligning and tuning AFO Footwear Combinations to determine the optimum prescriptions for patients during live gait analysis and tuning sessions.
- **Discuss and Defend** the essential concepts of the Optimal Segmental Kinematics and Alignment approach to Rehabilitation (OSKAR)
- **Describe, Discuss and Design** OSKAR functional gait training and motor learning programs for standing and walking with AFO Footwear Combinations
AGENDA FOR ADVANCED PEDIATRIC GAIT ANALYSIS

January 14th, 2022

7:45AM       Welcome and Opening Remarks
Melissa Kolski, PT, DPT, OCS, Dip MDT
Education Program Manager

8:00         Review Aims and Goals for Orthotic Interventions: an ICF Approach and Pictorial Tool

9:00         Video Patient Demonstration, Child 1
Audience participation in decision making throughout, by polling.
Review of Clinical Assessment
Video Vector Gait Laboratory demonstration of atypical gait pattern.
Goal Setting for Short, Medium and Long Term in all areas of ICF, using Pictorial Tool

10:00        Break

10:15        Determining Initial AFO Footwear Combination Prescription, use of algorithms
Optimizing Initial AFO Footwear Combination using Video Vector Laboratory
Final optimum orthotic prescription, design and dosage.
Longitudinal Review of the Case over 3 years & Outcomes

12:00PM      Lunch

1:00         Video Patient Demonstration, Child 2
Audience participation in decision making throughout, by polling.
Review of Clinical Assessment
Video Vector Gait Laboratory Analysis
Goal Setting for Short, Medium and Long Term in all areas of ICF, using Pictorial Tool

2:30         Break

2:45         Determining Initial AFO Footwear Combination Prescription, use of algorithms
Optimizing Initial AFO Footwear Combination using Video Vector Laboratory
Final optimum orthotic prescription, design and dosage.
Longitudinal Review of the Case over 3 years & Outcomes
Final Discussion

4:00         Conclusion of the Advanced Course

TUITION

| Advanced Pediatric Gait (6.5 Hours) | $300.00 |
**Cancellation Policy**

All cancellations must be in writing. Refunds less a 20% administrative charge will be given until January 7, 2022. The Academy reserves the right to cancel or change any programs for duecause. Cancellation of a program by the Academy will result in a full refund of tuition.

**Important Registration Information**

Registrations will be taken in the order in which tuition checks or credit card information is received. We highly encourage you to register online as these are processed more quickly than mailed or faxed registrations. **Full Tuition must accompany the registration form in order to confirm a place in this course.** Until you receive your confirmation letter, you are not officially registered for the course. For online registrations, you will receive email confirmation on the day that you register. For registrations received by standard mail or fax, the confirmation may take up to 3 weeks after we receive your registrations. If you do not receive confirmation within this period, please call 312-238-6042.

**One week prior to the course, only internet registrations and faxed registrations that include an email will be accepted.** Please note that the course could reach its maximum enrollment before this time.

**Continuing Education Credit**

**Physical Therapy**
This course has been approved by the Illinois Physical Therapy Board for 6.5 contact hours.

The Shirley Ryan AbilityLab is recognized by the New York State Education Department’s State Board for Physical Therapy as an approved provider of physical therapy and physical therapist assistant continuing education. Advanced course has been approved for an additional 6.5 contact hours.

The following states require continuing education units with no state specific approval: CT, IA, and WA

The Illinois Early Intervention Training Program has approved the Advanced course for EI credential credit in the area of 3.0 - Assessment, 1.0 - Atypical Development, 2.0 - Intervention, 1.0 - Typical Development.

The Minnesota Board of Physical Therapy has approved the course for 6.5 contact hours. #5327

**Orthotics**
This program has been approved for up to 6.5 credits through the American Board for Certification in O&P (ABC) for Orthotists, Orthotic Assistants, Orthotic Technicians, and Orthotic Fitters and Pedorthists. Full participation in this program is required to be eligible for the full amount of credits.
**Circle the program you are choosing in the table below:**

<table>
<thead>
<tr>
<th>Tuition</th>
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<tbody>
<tr>
<td>Advanced Pediatric Gait (6.5 Contact Hours) - January 14, 2022</td>
<td>$300</td>
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</tbody>
</table>

**Mail to:** Academy  
Shirley Ryan AbilityLab  
355 E. Erie Street, Suite 12-West  
Chicago, Illinois 60611

Please **TYPE** or **PRINT** your name and professional initials (MD, OT, PT, RN, etc.) as you would like them to appear on your continuing education certificate.

First Name __________________________ Last Name __________________________

Home Phone (__________) _________ Prof. Initials __________________________

Home Address ___________________________________________________________

City________________________ State______________ Zip____________

Organization/Facility __________________________

Work Address ___________________________________________________________

City________________________ State______________ Zip____________

Work Phone (__________) _____________ Fax (__________) ____________________

Position __________________________

E-mail (required) __________________________

Please note: registration will not be processed without full payment.

Method of Payment:  
☐ Check enclosed  (Payable to: Shirley Ryan AbilityLab)

Credit Card Users Must Complete the Following Information:

☐ MasterCard  ☐ VISA  ☐ American Express

Credit Card # ___________ - ______- ______- ______- ______

Expiration Date __ / __  CVV_________ (security code on back of card)

Name on Card __________________________

Billing Address _________________________________________________________

City________________________ State______________ Zip____________

Cardholder’s Signature __________________________

Credit card registrations may be mailed or faxed to: 312-238-4451.