

## Upper extremity and occupation in Children with Cerebral Palsy

### **Main Objectives:**

- To provide clinical training in the knowledge and skills needed to practice occupational therapy with children who have cerebral palsy.
- To provide a strong foundation for evidence-based practice (with the addition of key research notes) in key and specific interventions.
- To provide professional hand skills and implementation on different methods of assessment and intervention for cerebral palsy patients.

**Target Population:** Physical Therapists, Occupational Therapists

**Credit Hours:** 32 hours (4 days Clinical and practical application on children).

### **Instructor:**

#### **Dr. Ebtahal Ahmed Taha**

- Lecturer pediatric Physical Therapist at Ahram Canadian University -Cairo
- Consultant Pediatric Physical Therapy at Children's H. -Cairo University Hospitals.
- Technical director of occupational therapy Unit at free2move pediatric rehab. Center.
- **Doctoral degree** in physical therapy for Pediatrics, Cairo University,2020.
- **Master degree** of physical therapy of (Growth and development disorders in children and its surgery, Faculty of Physical Therapy, Cairo University ,**2015**.
- **Bachelor** degree of physical therapy, Cairo University,**2008**.

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### **The main reasons to engage in this course:**

- Encourage therapists to upgrade their scientific platform.
- Teach therapists how to create instead of imitate.
- Conduct your therapy in a qualified performance.
- Provide a variety of problem solving for most common troubles facing therapist during practice.

Using research literature and their own extensive experience the Trainer's aim to illustrate the role of occupational therapy with children with CP and other disabilities in specific practice areas and settings. Certain themes flow through most of the sections, suggesting that they are important to occupational therapy for children with CP. The themes are described and illustrated in the first section; three themes relate directly to evaluation and intervention:

- Child- and family-centered practice;
- Comprehensive evaluation; and
- Effective interventions.

## Course outlines & Learning Areas

### Part A:

1. Introduction to upper extremity functions and Occupational Therapy for Children with Cerebral Palsy
2. Foundational Theories of occupations and upper extremity rehabilitation with children with cerebral palsy.
  - Clinical Application and examples
3. The Development of Childhood Occupations related to age and performance skills.

### Part B: Examination

1. Upper extremity and Occupational Evaluation for children with Cerebral palsy.
2. Purposes, Processes, and different Methods of Evaluation
3. Use of different Standardized Tests in Pediatric Practice, application to become competent test user.
4. Common Measures Used in Pediatric Occupational Therapy

### Part C: Intervention

1. Development of Motor Control /Motor Learning theory in upper extremity and occupation therapy Practice for pediatrics.
2. Factors Affecting Motor Performance and application of theory in pediatrics.
3. Sensory Integration Development and Childhood Occupations.

- a. Sensory systems and Integrative Problems in children
  - b. Assessment of Sensory Integrative Functions in children with CP
  - c. Interventions for Children (CP) with Sensory Integrative Problems
4. Evaluation and Interventions to Develop Hand Skills
- a. Components and development of Hand Skills
  - b. Contributions of Body Functions to Hand Skills
  - c. Relationship of Hand Skills to Children's Occupations
  - d. Different Motor Problems and other factors that Affect Hand Skills in children with cerebral palsy.
  - e. Evaluation of Hand Skills in Children
  - f. Guidelines for Interventions of upper extremity function in pediatrics
5. The Visual System:  
Ocular and neurological functional components

***Cortical Visual Impairment***

- I CVI Definition, characteristics, phases and ranges.
- II Visual Perception
  - a. Definitions
  - b. Developmental Sequence
  - c. Visual-Perceptual Problems
  - d. Evaluation Methods
  - e. Intervention Strategies
- III Visual-Motor Integration
  - a. Eye-Hand Co-ordination
  - b. Prewriting and Handwriting Skills

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