



How to improve muscle strength and physical capacity in children and adolescents with cerebral palsy – from research to clinical practise

Where: Torsten Gordh lecture hall, Norrbacka

When: Thursday 1st of June 2023, 9am-4pm

Please register with None-Marie Kemp (none-marie.kemp@ki.se) for fika/lunch

- 09.00 *Welcome and introduction*
Ferdinand von Walden, Assistant Professor, Karolinska Institutet
- 09.10 *Using the CPUP surveillance program to predict contracture development in individuals with cerebral palsy*
Elisabet Rodby-Bousquet, PhD, PT, Associate Professor, Lund University
- 9.50 *Orthopedic aspects of surgical treatment in Cerebral Palsy in Sweden*
Per Åstrand, MD, PhD, Associate Professor, Karolinska Institutet
- 10.30 Coffee break
- 11.00 PhD-student presentations
Neuropediatrics Unit, Women's and Children's health, Karolinska Institutet
- 1) *Perception and action - the significance of the sensory system on motor functioning in children with cerebral palsy.* Annika Ericsson, PT
 - 2) *Children with cerebral palsy: Muscle spasticity, stiffness, strength, and structure.* Alexandra Palmcrantz, PT
 - 3) *Early detection of unilateral CP by the screening Hand Assessment for infants, s-HAI.* Johanna Kembe, OT
- 12.00 Lunch
- 13.00 *Exercise interventions for non-ambulatory children with CP*
Åsa Tornberg, PT, Associate Professor, Lund University
- 13.50 *Systemic Metabolomics and Skeletal Muscle Mitochondrial Function in CP*
Sudarshan Dayanidhi, PhD, PT, Assistant Professor, Northwestern University/Shirley Ryan Abilitylab, Chicago, USA
- 14.30 Coffee break
- 15.00 ***Keynote Lecture***
Moving towards healthier muscles and brains in individuals with CP
Diane Damiano, PhD, PT, Professor, NIH Clinical Center, US.