International Cerebral Palsy Conference

Pisa, Italy, 10-13 October 2012

Programme
The Congress Organizers gratefully acknowledge the generous support received by:

- Università di Pisa
- IRCCS Fondazione Stella Maris
- European Academy of Childhood Disability
- ICPS
- La Fondation Motrice
- SODIAAL
- CPEN
- SINPIA: Società Italiana di Neuropsichiatria dell’Infanzia e dell’Adolescenza

Italian Society of Physical Medicine and Rehabilitation (SIMFER)
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Dear Colleagues and Friends,

On behalf of the Scientific Board of the 4th International Cerebral Palsy Conference, I would like to invite you to join us at the conference, that will be hosted by the town of Pisa, Italy, on October 10-13, 2012.

The conference will be devoted to all aspects of cerebral palsy, from early diagnosis to standards of care and to new therapeutical approaches. In addition, special lectures will be dedicated to the opportunities offered by recent advances of research in Neuroscience. Contributions for understanding and treating cerebral palsy from animal models, genetics, stem cells, cognitive neuroscience will be discussed. The new framework provided by ICF approach, with a special attention to the quality of life, will be also taken into account.

The conference will include keynote lectures, workshops, symposia, breakfast instructional courses, oral communications and posters around the topics of the conference. Suggestions have been presented by the participants, using the format available at the conference website. The Conference will also include several spaces addressed to the parents, where the main speakers will present the main novelties of their research, with convenient time devoted to discussion. In addition to the rich programme, satellite pre and post-conference meetings will be available.

We expect hundreds of participants (medical doctors, therapists, psychologists, other professionals and students) from all over the world that will attend the conference.

Pisa, as you know, is located very close to the Tyrrenian coast, in the middle of the beautiful Tuscany, very close to Florence, Lucca and other magnificent historic towns. The city is known for its State University, older than 600 years, and it hosts other universities and research centers with a great interest in Neuroscience. Pisa airport is one of the main Italian airports with many daily flights (often low-cost) connecting to several European and extra European towns. The attendants will enjoy various social events starting from the welcome ceremony and the social dinner, and the opportunity to visit the beautiful town of Pisa and its surroundings. Pre and post conference tours and short visits for the accompanying persons will be available.

The 4th International Cerebral Palsy Conference promises to be an important event from both scientific and social perspectives. I am profoundly honoured to welcome the colleagues and the parents to ICPC Pisa 2012.

Giovanni Cioni, President, ICPC Pisa 2012 Scientific Board
THE CONFERENCE COMMITTEES

SCIENTIFIC BOARD

Prof. Giovanni Cioni - Chair of ICPC 2012
Professor of Child Neurology and Psychiatry
University of Pisa, Italy
Department of Developmental Neuroscience,
IRCCS Stella Maris,
Calambrone - Pisa, Italy

Prof. Roslyn Boyd
Professor of Cerebral Palsy Research
Scientific Director of QCPRRC
University of Queensland
Brisbane - Australia

Prof. Hans Forssberg
Professor of Basal and Clinical Neuroscience
Department of Woman and Child Health
Stockholm Brain Institute.
Karolinska University Hospital
Stockholm - Sweden

LOCAL ORGANIZING COMMITTEE

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Michele Coluccini
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of the Italian Society of Physical Medicine
and Rehabilitation (SIMFER)
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Mr. Luis Farres
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Prof. Elisa Fazzi
Scientific Coordinator of the Rehabilitation
Section of the Italian Society of Child and Adolescent
Neurology and Psychiatry (SINPIA)
Brescia - Italy

Prof. Adriano Ferrari
President of the Conference of the University
Courses for Physical Therapists
Reggio Emilia - Italy

Prof. Richard Stevenson
Second Vice President of the American Academy
for Cerebral Palsy and Developmental Medicine
(AACPDM)
University of Virginia - USA

Prof. Pierangelo Veggiotti
President of the Conference of the University
Courses for Developmental Motor
and Psychomotor Therapists
Pavia - Italy
KEYNOTE SPEAKERS

Prof. Nicoletta Berardi  
University of Florence and CNR Institute of Neuroscience  
Pisa - Italy  
LECTURE - Critical periods, brain plasticity and intervention and basic research

Prof. Roslyn Boyd  
Professor of Cerebral Palsy Research  
Scientific Director of QCPRRC  
University of Queensland - Brisbane - Australia  
LECTURE - Brain Fitness implications for neurorestorative rehabilitation

Prof. Alain Berthoz  
Laboratory of Physiology of Perception and Action  
Collège de France - CNRS  
Paris - France  
LECTURE - Perceptual and spatial memory disorders in CP

Prof. Allan Colver  
Department of Paediatrics  
Newcastle University  
United Kingdom  
LECTURE - Quality of life and participation of persons with Cerebral Palsy

Prof. Diane Damiano  
Biomechanics Section  
NIH Clinical Center  
Bethesda - USA  
LECTURE - Science versus Technology in Pediatric Locomotor Rehabilitation

Prof. Paolo Dario  
Professor of Biomedical Robotics Director of the Biorobotics Institute at the Scuola Superiore Sant’Anna  
Pisa, Italy  
LECTURE - Advances in robotics and rehabilitation
Prof. Ann - Christin Eliasson  
Department of Women’s and Children’s Health  
Karolinska Institute  
Stockholm - Sweden  
LECTURE - What is known about early development of hand function in children with unilateral CP

Dr. Sayed Ali Fatemi  
Kennedy Krieger Institute  
Johns Hopkins University  
Baltimore - USA  
LECTURE - Cell-based therapy in Cerebral Palsy: hype or hope

Prof. Andrew Gordon  
Department of Biobehavioral Sciences  
Columbia University  
New York - USA  
LECTURE - Motor learning and planning: Implications for treatment

Prof. Renzo Guerrini  
Department of Paediatric Neurology and Laboratories  
University of Florence  
Paediatric Hospital A.Meyer  
Firenze - Italy  
LECTURE - Epilepsy and CP

Dr. Andrea Guzzetta  
Department of Developmental Neuroscience  
IRCCS Stella Maris  
Calambrone (Pisa) Italy  
LECTURE - Neural plasticity and early intervention in CP infants

Prof. Gunnar Hägglund  
Department of Orthopaedics  
Lund University Hospital  
Lund – Sweden  
LECTURE - Orthopaedic complications in CP: are they preventable?
Prof. Mary Law  
*Department of Clinical Epidemiology and Biostatistics*  
*McMaster University*  
*Hamilton, Ontario – Canada*  
**LECTURE - Families: Our Most Important Partners in the Care of Cerebral Palsy**

Prof. Alastair MacLennan  
*Department of Obstetrics & Gynaecology*  
*University of Adelaide*  
*Adelaide, Australia*  
**LECTURE - Cerebral Palsy - Is it in your genes? Genetic susceptibility and potential triggers**

Dr. Gabriele Masi  
*Department of Developmental Neuroscience*  
*IRCCS Stella Maris*  
*Calambrone (Pisa) - Italy*  
**LECTURE - Adolescents - psychiatric aspects**

Prof. Maria Concetta Morrone  
*Department of Physiology*  
*University of Pisa*  
*Italy*  
**LECTURE - Blindsight in children with congenital and acquired cerebral lesions**

Prof. Richard Stevenson  
*Department of Pediatrics*  
*University of Virginia*  
*USA*  
**LECTURE - Growth, Nutrition, Physical Development and Health in Children and Youth with Cerebral Palsy**
The registration desk will be open for participants at the following times:

- **Wednesday, October 10**: 08,00 - 20,00
- **Thursday, October 11**: 08,00 - 20,00
- **Friday, October 12**: 08,00 – 19,30
- **Saturday, October 13**: 08,00 – 14,00

**Registration Fee includes**

Access to the scientific sessions, Conference Kit, Conference Proceedings and Final Program, Welcome Cocktail, Lunches and Coffee Breaks as specified in the program.

Registration fee does not include the attendance to Social Dinner. Tickets can be purchased at the registration desk for Eur 110,00 each.

**Certificate of attendance**

A certificate of attendance is available on a request basis. Please visit the registration desk.

**Slide Center**

The Slide Center is available for all the speakers who are requested to load their slides in the Slide Center at least three hours before their presentation (or, if their session starts at 8.00, by 18.00 on the previous day). Its location is indicated in the map of the venue.

**Language**

The official language of the Conference is English. Simultaneous translation into Italian will be provided only for the main lectures and the other events foreseen in the Auditorium.

**Exhibition**

An Exhibition on Laboratory & Scientific Products will be open to attendants in the Exhibition Area during the conference time.
CME Credits (For Italian delegates only)
Provider Meridiana Events & Education srl (n. 1006) has assigned to the conference 5,5 CME credits according to Italian Health Ministry’s criteria.
CME Credits will only be awarded to Italian delegates: Medical Doctors, Speech Therapist, Occupational Therapists, Psychologists, Orthopaedic Technicians, Physiotherapists, Childhood Neuro and Psicomotricity Therapists, Health Education Professionals.

Photography and Videorecording
It’s strictly forbidden to take any pictures or videorecord (including with cell phones) during the congress.

No Smoking
Smoking is strictly forbidden in the Congress Venue.

Mobile Phones
Delegates must keep their phone in the off or silent position in the Lecture Halls and other presentation rooms.

Cloakroom
A cloakroom is available. Delegates must not leave their personal belongings at the venue after the closing-time.

Insurance
Registration fees do not include insurance of any kind. Neither Meridiana Events & Education nor the Organizing Committee will accept any responsibility or liability for any injuries, losses and/or damages sustained as a result of any cancellation, accidents, illness or other occurrences that may arise in connection with the ICPC 2012. Participants are advised to arrange adequate travel and health insurance themselves.

Disables Facilities
The Congress Venue has been designed to incorporate facilities for disables, included toilets and car park. Access for children in the Auditorium is allowed.
For information about hotels accessible for people with disability please contact the Organizing Secretariat.
For information about travelling by train (www.trenitalia.com) you can request RFI’s assistance as follows:
- by going to the Sale Blu directly;
- by calling the RFI National Telephone Number 199 30 30 60
- by contacting Trenitalia’s Call Center: 199 892021 option 7 or 0039 06/3000 for users not enabled to call 199

PISA PRACTICAL INFORMATION

Transportation in Pisa
Bus:
Three urban lines connect the central railways station with the most important areas of the city:
• LAM rossa: airport and north-west side
• LAM blu: Cisanello hospital and south-east side
• LAM verde: north-east side

A detailed map of connections can be found at www.cpt.pisa.it

The congress venue is located downtown in Pisa and can be easily reached by public transport:
City Bus LAM BLU
Bus Stop Matteotti 2 direction Cisanello Hospital - Railway Station (Hotel San Ranieri)
Bus Stop Matteotti 3 direction Railway Station - Cisanello Hospital
Buses are running every 10 minutes
Introduction to Pisa and its origins

Pisa is a town of ancient origins. It remained under Etruscan influence for many centuries. Its importance as a port and maritime trading center increased during the most glorious period of Roman power. Pisa acquired autonomy from the 9th century onwards, promoting its own maritime vocation in Mediterranean sea. The 11th and 12th centuries were marked by Pisa's great military victories in Sicily, Corsica, Sardinia and Baleari islands. It engaged a naval supremacy with the powerful city of Genoa and it was defeated in the famous battle of Meloria on 6 August 1284, which represented the end of Pisa's maritime splendour. In the following centuries Pisa had a culturally prosperous period under the Medici and the Habsburg-Lorraine grand dukes. Most recently, in the 20th century, Pisa was characterized by a great expansion but also by a deep devastation caused by the second world war which brought enormous damage and injury to the town.

Curiosities and unusual sites

Some notices, not easy to be found in a city guide, but interesting to know and visit during spare time.

The devil's fingers

On the northern side of the cathedral, the side that faces the cemetery, on the sixth pilaster from the façade there is a long series of small holes made vertically in the marble. These are known as the “devil's fingers”, mysterious, arcane marks of unknown origin and meaning. According to a local tradition, anyone attempting to count the devil's fingers will come to a different figure every time, no matter how often they try.

Libreria antiquaria Vallerini

Situated in Via dei Mille, just few meters from Piazza dei Cavalieri, it is one of the most charming and interesting shops in Pisa. The timeless atmosphere of its ancient rooms with their antique bookshelves offers a large collection of books and drawings dedicated to Pisa.

Case Torri

This word means “tower-houses” and in the 12th century represented the most typical forms of residential buildings, with their narrow shape (even 6 floors) chosen for defensive reasons. Today, only few Case Torri can be admired in the historical centre such as the “Campano” located near the medieval complex of Piazza delle Vettovaglie. These impressive buildings offer a reminder and a confirmation of Pisa's great past as one of the most important cities of the western medieval world.

Kinzica de’ Sismondi

In Via San Martino, at number 19, on the façade of a tower-house, there is a marble high-relief portraying a young woman. This is a fragment from a Roman sarcophagus, but it is known locally as the statue of Kinzica de’ Sismondi. She is considered a heroine and she has been always admired by Pisans. In 1005, according to the legend, she alerted the inhabitants of Pisa from the attack by the Saracens.

The tower of Count Ugolino

The tower of Count Ugolino rose in the area currently occupied by Palazzo dell’Orologio in Piazza dei Cavalieri. Count Ugolino della Gherardesca was the governor of Pisa at the end of 13th century. In 1289 was unjustly accused of treason. He was imprisoned in this tower and left to die of hunger with his children and grandchildren. This episode inspired Dante to write one of the most famous cantos in the Divine Comedy.

The second leaning tower

Another leaning tower can be admired in Pisa in addition to the most famous one. It is the tower of San Michele degli Scalzi, which can be reached after a pleasant walking through the green area along the river Arno. The ancient church and the tower are connected to a new exposition center (SMS) and represent an integration of new and old architectures.
Currency
The currency of Italy is Euro, usually abbreviated in EUR or €. Money can be changed at Pisa International Airport, banks and in Money Exchange Offices. Credit Cards are widely accepted in restaurants, shops and hotels.

Banks
Banks are opened from Monday to Friday from 08,30 am to 1,30 pm and from 2,30 pm to 4,00 pm.

Electricity
Electricity in Italy is 220 V, 50 Hz and Italian earthed three-pin outlets are commonly used. In some installations, schuko plugs can be also used.

Emergency
For emergency medical assistant please dial 118
For police assistant please dial 113 (Polizia) or 112 (Carabinieri)
For fire emergency please dial 115

Shopping in Pisa
Pisan craft is renowned for leather goods, shoes, terracotta, wooden furniture and naturally, food. Piazza delle Vettovaglie in the heart of the medieval city is surrounded by an elegant sixteenth-century portico, which has always been the location of a colorful daily market. As well as the stalls in the square, the surrounding picturesque alleys offer the possibility of buying renowned Pisan specialties. Crossing Via delle Colonne you arrive to Borgo Stretto, one of the most beautiful streets in the city, with wonderful porticos. It is the heart of shopping in Pisa. You can then cross Mezzo Bridge and continue on to Corso Italia, another great shopping address in the city. Shops in Pisa are open from Monday afternoon to Saturday from 09,00 am to 1,00 pm and from 4,00 pm until 8,00 pm.

National park of the Cinque Terre - Natural Protected Marine Area of the Cinque Terre
A territory in which sea and land are founded forming a unique and evocative area. 18 kilometers of rocky coastline abounding with abundant bays, beaches and deep sea, surrounded by mountains running parallel to the coast. Paths and mule tracks look onto breathtaking views. Five villages, Riomaggiore, Manarola, Corniglia, Vernazza, Monterosso face onto the sea. An environment in which centuries old work of generations has transformed an inaccessible territory into a landscape of extraordinary beauty. A protected Marine Area and a National Park which protect the absolute uniqueness. In synthesis the "Cinque Terre" has been declared a World Heritage of Humanity by UNESCO since 1997.

How to get there
BY TRAIN - A frequent service runs on the Pisa-Genova line, especially in Spring & Summer. Many intercity trains stop at Riomaggiore and Monterosso. Numerous local trains leave from the railway station of La Spezia and stop at all the five villages. Info: www.trenitalia.com
BY CAR - To Monterosso al Mare and Vernazza: from Carrodano-Levanto (on A12 Genova-Livorno) follow signs to Levanto and Monterosso al Mare.
To Corniglia, Manarola and Riomaggiore: on exiting from La Spezia follow signs to La Spezia centro and then direction for Cinque Terre panoramic road (SP 370).
BY AIR - The closest airports are "Cristoforo Colombo", Genova and "Galileo Galilei", Pisa. Info: www.airport.genova.it www.pisa-airport.com

Many beautiful sites of Tuscany are easy to reach from Pisa, such as Lucca, San Gimignano, Florence and Siena by train (www.trenitalia.com) or by bus (www.lazzi.it)

Currency
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For fire emergency please dial 115
Welcome cocktail (see in the map A)
Wednesday, October 10 – 19.00
Palazzo dei Congressi
Via Matteotti, 1 - 56124 Pisa

The cocktail will be enliven by some of the most famous Puccini Aria played by piano and sung by an Italian tenor and soprano.

The attendance to the welcome cocktail is included in the registration fee.

Concert and Social Dinner (see in the map B)
Friday, October 12
Concert in Santa Caterina Church - 20.00
Piazza Santa Caterina, 5 - 56127 Pisa

The programme includes Vesperae Solemnes and Te Deum of Wolfgang Amadeus Mozart performed by the Chorus of Pisa University and the Tuscan Chamber Orchestra.

The attendance to the Concert is free.

Dinner in Santa Caterina Cloister - 20.45
Registration fee does not include the attendance to the Social Dinner.
Tickets can be purchased at the registration desk for Eur 110.00 each.

Dress code
Smart casual dressing is appropriate for both social events.

How to reach Piazza Santa Caterina from the Congress Venue
Go ahead for 20 mt and at the Roundabout take the first exit for Piazza Caduti Divisione Acqui. Follow the Arno River for about 1km and turn right in Piazza Giuseppe Garibaldi. Go ahead in Borgo Stretto and go on in Via Guglielmo Oberdan (Borgo Largo). Turn right in Via San Lorenzo and go ahead until you reach Piazza Santa Caterina. The Church is in the opposite corner.
**AWARDS**

**Heinz Prechtl Award**  
Recipient: Andrea Guzzetta, Italy

The Prechtl-Award is given to those clinical scientists who have furthered our knowledge of developmental neurology. The fascination of brain and behavioral development can lead to research which is focusing on diagnostic and therapeuting procedures. Prechtl awardees are recruited from those researchers who work in this area of interest.

**CP Alliance Award**  
CP Alliance Award will be given to the best oral presentation

**Conference Award**  
Conference Award will be given to the best poster

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**FURTHER INFORMATION**

**Participation of the parents to ICP2012**  
Parents organizations, and in particular the International cerebral palsy Society (ICPS), and local family representatives have been involved in the organization of the conference programme. A dedicated registration fee is available for parents and disable facilities are indicated on page 11 of the programme. Special sessions, indicated as “Parents meet the expert”, will be performed in the Auditorium, where keynote speakers will present on topics selected by the parents, with a large time left for questions. These sessions will also be videorecorded and made available by streaming for the large public after the conference.

**Contribution of SINPIA, SIMFER and EACD to the conference**  
The conference coincides with the joint meeting carried out every year around paediatric rehabilitation by the Italian Society of Infant and Adolescent Neuropsychiatry (SINPIA) and the Italian Society of Physical Medicine and Rehabilitation (SIFMER). The conference scientific committee acknowledges the contribution of SINPIA, SIMFER and of the European Academy of Childhood Disability (EACD) in the organization of some workshops and symposia, as indicated in the programme.

**Lecture halls**  
The Pisa Convention has several lecture halls that will be all used during the parallel sessions: at the ground floor the "Sala plenaria" or Auditorium, Room B and Galilei Hall (from where lectures performed in the Auditorium can also been followed by a screen), at the first floor Pacinotti Hall and Fermi Hall. Two additional halls, located at the ground floor of next university building, will also be used (ROOM 6 and ROOM 7). The location of the halls is indicated in the map of the venue and it will be also displayed by signboards. The halls have a different numbers of seats; allocation of the different events of the same parallel sessions has been decided according to a poll made by email among the people registered to ICP2012. Keynotes sessions and Parent sessions will be all time located in the Auditorium, where simultaneous translation will be available.

**Post conference course**  
17th Basic and Advanced Course  
Observation of spontaneous motor activity as a diagnostic tool in newborns and infants

Calambrone (Pisa), Italy, October 15 - 17, 2012  
information and registration at:  [www.inpe.unipi.it/gm2012](http://www.inpe.unipi.it/gm2012)
# PROGRAMME AT A GLANCE

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<th>Time</th>
<th>Session</th>
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<tr>
<td>08:00</td>
<td>Registration desk open</td>
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<tr>
<td>09:00</td>
<td>Welcome ceremony</td>
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<tr>
<td>09:15</td>
<td>Opening ceremony</td>
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<td>09:30</td>
<td>Keynote Speech</td>
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<td>10:15</td>
<td>Coffee break</td>
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<tr>
<td>10:30</td>
<td>Oral presentations / Symposia (parallel sessions 1)</td>
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<td>Lunch and photos session 1</td>
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<tr>
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<td>Oral presentations / Symposia (parallel sessions 2)</td>
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<tr>
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<td>Oral presentations / Symposia (parallel sessions 3)</td>
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<td>15:30</td>
<td>Oral presentations / Symposia (parallel sessions 4)</td>
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<td>16:15</td>
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<td>17:00</td>
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<td>17:45</td>
<td>Lunch and photos session 1</td>
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<tr>
<td>18:00</td>
<td>Poster session</td>
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<tr>
<td>18:30</td>
<td>Conference end</td>
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</tbody>
</table>

**Wednesday, Oct 10**

- 09:00: Welcome ceremony
- 09:15: Opening ceremony
- 09:30: Keynote Speech
- 10:15: Coffee break
- 10:30: Oral presentations / Symposia (parallel sessions 1)
- 11:15: Lunch and photos session 1
- 12:00: Oral presentations / Symposia (parallel sessions 2)
- 12:45: Lunch and photos session 1
- 14:00: Oral presentations / Symposia (parallel sessions 3)
- 14:45: Lunch and photos session 1
- 15:30: Oral presentations / Symposia (parallel sessions 4)
- 16:15: Lunch and photos session 1
- 17:00: Oral presentations / Symposia (parallel sessions 5)
- 17:45: Lunch and photos session 1
- 18:00: Poster session
- 18:30: Conference end

**Thursday, Oct 11**

- 09:00: Welcome ceremony
- 09:15: Opening ceremony
- 09:30: Keynote Speech
- 10:15: Coffee break
- 10:30: Oral presentations / Symposia (parallel sessions 1)
- 11:15: Lunch and photos session 1
- 12:00: Oral presentations / Symposia (parallel sessions 2)
- 12:45: Lunch and photos session 1
- 14:00: Oral presentations / Symposia (parallel sessions 3)
- 14:45: Lunch and photos session 1
- 15:30: Oral presentations / Symposia (parallel sessions 4)
- 16:15: Lunch and photos session 1
- 17:00: Oral presentations / Symposia (parallel sessions 5)
- 17:45: Lunch and photos session 1
- 18:00: Poster session
- 18:30: Conference end

**Friday, Oct 12**

- 09:00: Welcome ceremony
- 09:15: Opening ceremony
- 09:30: Keynote Speech
- 10:15: Coffee break
- 10:30: Oral presentations / Symposia (parallel sessions 1)
- 11:15: Lunch and photos session 1
- 12:00: Oral presentations / Symposia (parallel sessions 2)
- 12:45: Lunch and photos session 1
- 14:00: Oral presentations / Symposia (parallel sessions 3)
- 14:45: Lunch and photos session 1
- 15:30: Oral presentations / Symposia (parallel sessions 4)
- 16:15: Lunch and photos session 1
- 17:00: Oral presentations / Symposia (parallel sessions 5)
- 17:45: Lunch and photos session 1
- 18:00: Poster session
- 18:30: Conference end

**Saturday, Oct 13**

- 09:00: Welcome ceremony
- 09:15: Opening ceremony
- 09:30: Keynote Speech
- 10:15: Coffee break
- 10:30: Oral presentations / Symposia (parallel sessions 1)
- 11:15: Lunch and photos session 1
- 12:00: Oral presentations / Symposia (parallel sessions 2)
- 12:45: Lunch and photos session 1
- 14:00: Oral presentations / Symposia (parallel sessions 3)
- 14:45: Lunch and photos session 1
- 15:30: Oral presentations / Symposia (parallel sessions 4)
- 16:15: Lunch and photos session 1
- 17:00: Oral presentations / Symposia (parallel sessions 5)
- 17:45: Lunch and photos session 1
- 18:00: Poster session
- 18:30: Conference end

**International Cerebral Palsy Conference**
09.00 Registration

14.00 Opening Ceremony and Welcome Messages

Session CME Accredited

14.30 - 15.30
KEYNOTE LECTURES 1 - AUDITORIUM
Chairs: Forssberg H. (Sweden), Saggese G. (Italy)

14.30 Cell-based therapy in CP: hype or hope
Sayed Ali Fatemi (USA)

15.00 CP - is it in your genes? Genetic susceptibility and potential triggers
Alastair MacLennan (Australia)

15.30 Coffee Break

15.55 - 16.55
PARALLEL SESSION 1

ORAL PRESENTATIONS - GROUP 1
ETIOLOGY - GALILEI HALL
Chair: Cans C. (France)

OP1 Genetic and clinical contributions to cerebral palsy: a multivariable case-control analysis
O’Callaghan M., MacLennan A., Gibson C., McMichael G., Haan E., Broadbent J., Baghurst P.,
Goldwater P., Dekker G. (Australia)

OP2 Rare copy number variants in cerebral palsy
McMichael G., Girirajan S., Moreno-De-Luca A., Gecz J., Nicholl J., Gibson C., Hann E.,
Martin C., MacLennan A. (Australia)

OP3 A new analytical approach to further understand the aetiology of CP: analysis of CCCP data
McIntyre S., Blair E., Badawi N., Nelson K.B. (Australia)

OP4 The role of smoking in pregnancy in the aetiology of cerebral palsy (CP): analysis of CCCP data
Blair E., McIntyre S., Nelson K. (Australia)

OP5 Cerebral palsy and maternal infection in term born babies: a population-based case-control study
Ahlin K., Jacobsson B., Himmelmann K., Wennerholm U.B., Kacerovsky M., Cobo T.,
Hagberg G. (Sweden)
ORAL PRESENTATIONS - GROUP 2  
MUSCLE - PACINOTTI HALL  
Chair: Shortland A. (UK)

OP6 Effect of cerebral palsy-induced spasticity on tendon structure  
Portinaro N.M., Gagliano N., Menon A., Martinelli C., Panuccio E., Panou A., Mori M. (Italy)

OP7 Tissue characterisation of the medial gastrocnemius in children with spastic cerebral palsy  
Pitcher C., Elliott C., Panizzolo F., Valentine J., Reid S. (Australia)

OP8 How to assess active and passive components of muscle resistance in children with cerebral palsy  
Willerslev-Olsen M., Lorentzen J., Nielsen J. B. (Denmark)

OP9 Stretched sarcomeres may contribute to contracture in cerebral palsy  
Mathewson M., Lieber R., Ward S., Chambers H. (Usa)

OP10 Tardieu test and muscle stretch response in children with cerebral palsy: a case-control study  
Brændvik S. M., Elkamil A., Vik T., Roeleveld K. (Norway)

ORAL PRESENTATIONS - GROUP 3  
PARTICIPATION 1 - FERMI HALL  
Chair: Sakzewski L. (Australia)

OP11 Activity capacity to participation in cerebral palsy: evidence of an indirect path via performance  
Bjornson K., Christakis D., Zhou C., Stevenson R. (Usa)

OP12 Independence in daily life in adolescents with CP and typical peers – a population-based study  
Jahnsen R., Ramstad K., Myklebust G., Elkjaer S., Diseth T. (Norway)

OP13 Participation and autonomy of young adults with cerebral palsy. The PERRIN Transition study  
Roebroeck M., Wiegerink D. (The Netherlands)

OP14 Frequency of participation of adolescents with cerebral palsy compared to the general population  

OP15 Developmental trajectories of social participation in individuals with cerebral palsy aged 1-24  
Tan S.S., Wiegerink D. JHG, Ketelaar M., Smits D.W., Voorman J.M., Vos R.C., Roebroeck M.E. (The Netherlands)

ORAL PRESENTATIONS - GROUP 4  
UPPER LIMB ASSESSMENT - AUDITORIUM  
Chair: Eliasson A.C. (Sweden)

OP16 Arm and hand function in children with unilateral cerebral palsy: a one-year follow-up study  

OP17 Upper limb movement pathology in children with unilateral CP: the arm profile score  
Jaspers E., Feys H., Bruyninckx H., Klingels K., Molenaers G., Desloovere K. (Belgium)

OP18 Quantification of bimanual dexterity deficits in children with hemiplegia with a modified peg test  
Basu A., Kirkpatrick E., Bounford E., Pearse J., Eyre J. (UK)

OP19 Computer vision based assessment of mirror movements in adolescents with unilateral cerebral palsy  

OP20 Clinical and computer-based assessment of mirror movements and hand function in cerebral palsy  
WORKSHOP 1 - ROOM B
METHODICAL STEPS IN TASK ORIENTED THERAPY FOR CHILDREN WITH CEREBRAL PALSY
Chair: Feys H. (Belgium)

Rameckers E.A.A., Van Den Dikkenberg N. (The Netherlands)
Van Vulp E.L.F. (The Netherlands)
Snijders B., Scheijmans C. (The Netherlands)
Ketelaar M. (The Netherlands)

17.00 - 18.00
PARALLEL SESSION 2

ORAL PRESENTATIONS - GROUP 5
EPIDEMIOLOGY - FERMI HALL
Chair: Blackman J. (USA)

OP21 Pregnancy induced hypertension and aetiology of cerebral palsy (CP): analysis of CCCP data
Blair E., McIntyre S., Nelson K. B. (Australia)

OP22 Cytomegalovirus and Epstein-Barr virus are associated with some cases of cerebral palsy
McMichael G., MacLennan A., Gibson C., Alvino E., Goldwater P., Haan E., Dekker G. (Australia)

OP23 Beginning to unravel the causal pathways to CP for low risk term infants: analysis of CCCP data
McIntyre S., Badawi N., Blair E. (Australia)

OP24 Severity of cerebral palsy (CP) and Apolipoprotein E4 (ApoE4)
Lien E., Andersen G., Bao Y., Gordish-Dressman H., Vik T., Blackman J. (Norway)

OP25 Trends in prevalence of post-neonatal cerebral palsy: a European register-based study
Germany L., Ehlinger V., Delobel M., Klapouszczak D., Arnaud C. (France)

ORAL PRESENTATIONS - GROUP 6
GAIT 1 - PACINOTTI HALL
Chair: Narayanan U. (Canada)

OP26 Assessment of walking ability in youths with CP by using the ICF – a study of test-rest reliability
Ljunggren E., Odman P. (Sweden)

OP27 Further testing of the challenge module – a new measure of advanced motor skills in children with CP
Wright F.V., Fehlings D., Lee G. (Canada)

OP28 Links between physical examination and gait abnormalities in very young children with CP
Bonikowski M., Czernuszenko A., Gąsior J., Pawłowski M. (Poland)

OP29 Does femoral de-rotation osteotomy improve transverse plane pelvic kinematics in children with CP?
Walsh J., Gordon M., Carty C., Copeland L. (Australia)

OP30 Proposal of a diagnostic protocol for idiopathic toe walking
Tirelli A., Gimigliano F., Riccio I., Tirelli A. (Italy)
**ORAL PRESENTATIONS - GROUP 7**  
**UPPER LIMB TREATMENT 1 - AUDITORIUM**  
Chair: Klingels K. (Belgium)

**OP31**  
Efficacy of upper limb therapies for children with congenital hemiplegia: systematic review update  
*Sakzewski L., Boyd R. (Australia)*

**OP32**  
Training aspects of finger movements with a computer game in children with unilateral cerebral palsy  
*Holmström L., Ullén F., Green D., Hedberg A., Eliasson A.C. (Sweden)*

**OP33**  
Design and evaluation of a virtual reality “Exergame” for youth with cerebral palsy (GMFCS III)  
*Fehlings D., Graham N., Hernandez H., Switzer L., Ye Z., Hamza A. (Canada)*

**OP34**  
Virtual reality based therapy for post-operative rehabilitation of children with cerebral palsy  
*Sharan D., Padinjattethil Sasidharan A., Manikandan M., Dhar U., Ranganathan R., Mohandoss M., Jose J., Paulina Ramachandran J. (India)*

**OP35**  
Action observation treatment may improve upper limb motor functions in children with cerebral palsy  
*Arisi D., Fazzi E., Tiberti A., Gough P., Aprile D., Ferri C., Serotti L., Buccino G. (Italy)*

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**WORKSHOP 2 - ROOM B**  
**EVIDENCE BASED REHABILITATION: USE OF EFFECTIVE KNOWLEDGE TRANSLATION STRATEGIES TO ENHANCE EVIDENCE**  
Chair: Autti-Rämö I. (Sweden)

Outline the knowledge translation evidence base via a systematic review  
*Novak I. (Australia)*

Present randomised controlled trial findings of a novel knowledge translation program designed to enhance professional use of cerebral palsy evidence  
*Novak I. (Australia)*

Provide delegates with opportunities to reflect on their own service provision models, identify barriers to evidence use and determine facilitators for promoting change  
*Morgan C. (Australia)*

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**WORKSHOP 3 - GALILEI HALL**  
**THE F-WORDS IN CHILDHOOD DISABILITY: WHY IS IT SO HARD TO DO IN THE REAL WORLD?**  
Chair: Bjornson K. (USA)

Background and rationale for using the “F-Words” in the services we deliver to children with CP and their families  
*Gorter J.W. (Canada)*

Parental perspectives on the “F-words”  
*Kay D. (UK)*

Putting “F-words” into practice  
*Kolehmainen N. (UK)*

Service delivery implications of the “F-words” and why is it so hard to do in the real world  
*Camden C. (Canada)*
18.05 - 19.15
HEINZ PRECHTL AWARD LECTURE - AUDITORIUM

Introduction
Heinz Prechtl (Austria)

Laudatio
Roslyn Boyd (Australia)

Session CME Accredited

Neural plasticity and early intervention in CP infants
Andrea Guzzetta (Italy)

19.15 Welcome cocktail
Thursday, 11th October 2012

Session CME Accredited

08.00 - 09.00
TRAINING COURSES

TRAINING COURSE 1 – AUDITORIUM
How to provide hand training for children below 12 months of age at risk of developing unilateral CP
Eliasson A.C., Sjöstrand L. (Sweden)

TRAINING COURSE 2 – GALILEI HALL
Management of the hip in cerebral palsy: a comprehensive based approach
Narayanan U., Fehlings D. (Canada)

TRAINING COURSE 3 – FERMI HALL
Classification of motor speech disorders in children: descriptive analysis by perceptual assessment
Brady. T., Ní Mhurchú D. (Ireland)

TRAINING COURSE 4 – ROOM B
Treatment is not effective unless the management is proper
Renjith J. (Ireland)

TRAINING COURSE 5 – PACINOTTI HALL
Dyskinetic CP: pathological signs and clinical evaluation of dystonia and choreoathetosis in CP
Monbaliu E., Ortibus E., Feys H. (Belgium)

TRAINING COURSE – ROOM 6
Web based home rehabilitation gaming system for balance training
Kachmar O., Kozyavkin V., Markelov V., Kachmar B., Melnychuk V. (Ukraine)

09.00  Pause

Session CME Accredited

09.25 - 10.25
KEYNOTE LECTURES 2 - AUDITORIUM
Chairs: Gordon A. (USA), Haataja L. (Finland)

09.25  Critical periods, brain plasticity and intervention and basic research
Nicoletta Berardi (Italy)

10.55  What is known about early development of hand function in children with unilateral CP
Ann-Christin Eliasson (Sweden)

10.25  Coffee Break
ORAL PRESENTATIONS - GROUP 8
PHARMA & NEUROSTIMULATION - ROOM B
Chair: Lin J.P. (UK)

OP36 Long term follow-up in dystonic cerebral palsy treated with deep brain stimulation
Petacchi E., Mondani M., Armellin M.T., Facchin D., Moret O., Gubernale M., Martinuzzi A. (Italy)

OP37 Pharmacological treatment in dyskinetic cerebral palsy
Allori P., Pasquinelli A., Varrella A. (Italy)

OP38 Exploring stakeholders’ views on receiving transcranial direct current stimulation in cerebral palsy

OP39 Goal-directed outcomes following paediatric deep brain stimulation (DBS) using the Canadian occupational performance measure (COPM)
Gimeno H., Tustin K., Ashkan K., Selway R., Lin J.P. (UK)

OP40 Movement disorders –childhood rating scale: responsiveness in patients treated with oral drugs
Casarano M., Battini R., Sgandurra G., Olivieri I., Maurizio Romeo D., Di Pietro R., Mercuri E., Cioni G. (Italy)

OP41 Effects of deep brain stimulation on the cycle of pain in dystonia in a paediatric cohort.

ORAL PRESENTATIONS - GROUP 9
HIPS & SPINE 1 - FERMI HALL
Chair: Oppenheim W. (USA)

OP42 Early predictors of hip displacement by school age in young children with cerebral palsy
Jordan R., Pym A., Ware R., McKinlay L., Boyd R. (Australia)

OP43 Risk of hip displacement in young children following acquired brain injury
Wynter M., Kentish M., Snape N., Boyd R. (Australia)

OP44 Is it possible to prevent hip dislocation in children with CP? The role of postural management
Picciolini O., Cozzaglio M., Consonni D., Portinaro N., Gasparroni V., Mosca F., Porro M. (Italy)

OP45 The natural progression of hip displacement in cerebral palsy
Terjesen T. (Norway)

OP46 The CPchild questionnaire is responsive to hip surgery in children with severe cerebral palsy
Narayanan U., Okusanya O., Lochab J., Weir S. (Canada)

OP47 Criticality on the employ of the baclofen pump in children with cerebral palsy
Bertana S., Feliciangeli A., Cersosimo A., Lima M. (Italy)

ORAL PRESENTATIONS - GROUP 10
COMMUNICATION - PACINOTTI HALL
Chair: Morris C. (UK)

OP48 Communication in the panorama of cerebral palsy in western Sweden
Himmelmann K., Lindh K., Cooley Hidecker M.J. (Sweden)

OP49 The communication difficulties of children with cerebral palsy at two years of age
Pennington L., Pearce M. (UK)

OP50 Dysarthria and communication impairment in cerebral palsy
Schölderle T., Staiger A., Lampe R., Ziegler W. (Germany)

OP51 Scales for assessment of communication ability in the surveillance of children with cerebral palsy
Virella D., Pennington L., Andrade M., Greitane A., Prasauskiene A., Lackauskaite G., Himmelmann K., Andersen G.L., De La Cruz J., SCPE-NET Task 4.2 Team (Portugal)

OP52 Early predictors of communication function in children with cerebral palsy

OP53 Language abilities of children with cerebral palsy at age 5 and 6 years
Mei C., Morgan T., Reilly A., Reddihough D., Mensah F., Pennington L. (Australia)
SYMPOSIUM 1 - ROOM 6
MOTOR DEVELOPMENT AND DISORDERS IN ANIMAL STUDIES
Chair: MacLennan A. (Australia)

Molecular mechanisms of motor skill learning
Forssberg H. (Sweden)

Animal models for asphyxia and neuroprotection
Pellegrini D. (Italy)

A rat model of perinatal stroke and hemiplegia
Pizzorusso T. (Italy)

SYMPOSIUM 2 - AUDITORIUM
PARTICIPATION BASED PHYSICAL AND OCCUPATIONAL THERAPY FOR CHILDREN WITH PHYSICAL DISABILITIES
Chair: Wright V. (Canada)

Optimal participation of children with physical disabilities
Palisano R. (USA)

Model for participation-based therapy
Novak I. (Australia)

Application of participation-based therapy for a child with cerebral palsy
Chiarello L. (USA)
### 10.50 - 12.20
**WORLD CP REGISTER DAY 1 - GALILEI HALL**
In collaboration with SCPE-NET (Surveillance of Cerebral Palsy in Europe)
**CHALLENGES IN DESCRIBING AND CLASSIFYING CHILDREN WITH CP**
Chair: Cans C. (France)

#### KEYNOTES LECTURES

Challenges in cerebral palsy surveillance: seeking harmony in inclusion and exclusion criteria  
**Badawi N., Blair E., Cans C., Himmelmann K., Krägeloh-Mann I., McIntyre S., Smithers-Sheedy H., Uldall P., Watson L. (Australia)**

Exclusion of progressive brain disorders of childhood for a cerebral palsy monitoring system  
**Yeargin-Allsopp M., Olney R., Doernberg N. (USA)**

Reliable description of motor impairments in children with CP  
**Love S., Blair E., Gibson N., Watson L. (Australia)**

#### ORAL PRESENTATIONS

Reproducibility studies of the SCPE inclusion/classification system for cerebral palsy  
**Sellier E., Horber V., Krageloh-Mann I. De La Cruz J., Cans C., on behalf of the SCPE collaboration (France)**

The Use of the Dyskinesia Impairment Scale by less experienced raters: a reliability study  
**Monbaliu E., Ortibus E., Prinzie P., Bernard B., De Cat J., Deca E., Boogaerts N., De Cock P., Feys H. (Belgium)**

Systematic review of intelligence assessments for children with cerebral palsy  
**Yin Foo R., Johnston L., Guppy M. (Australia)**

### 12.05 - 13.15
**PARALLEL SESSION 4**

#### ORAL PRESENTATIONS - GROUP 11
**ANIMAL + EARLY ASSESSMENT/TREATMENT 1 - ROOM 6**
Chair: MacLennan A. (Australia)

| OP54 | Creatine - a multi-organ protectant against hypoxic injury  
**Walker D., Dickinson H., Ireland Z., LaRosa D., Ellery S., Cannata D., West J., Snow R. (Australia)** |
| OP55 | Toward a promising rodent model of CP based on prenatal ischemia  
**Coq O., Delcour M., Russier M., Baud O., Barbe M.F. (France)** |
| OP56 | Neurosteroids protect the fetal and neonatal brain against hypoxia and excess glucocorticoids  
**Walker D., Hirst J., Yawno T., Miller S., Jenkin G., Wallace Euan, Parkington H. (Australia)** |
| OP57 | Cerebral palsy and periventricular white matter injury: does gestational age affect function?  
**Harvey A., Randall M., Imms C., Eldridge B., Rodda J., Reid S., Lee K., Reddihough D. (Australia)** |
| OP58 | Outcomes in RCTs and meta-analyses of interventions for infants at risk of CP: is there consensus?  
**Hines M., Swinburn K., McIntyre S., Novak I., Badawi N. (Australia)** |
### ORAL PRESENTATIONS - GROUP 12
**UPPER LIMB ASSESSMENT 2 - AUDITORIUM**

Chair: Gordon A. (USA)

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<tr>
<th>OP59</th>
<th>Development of the mini-assisting hand assessment: evidence for construct and internal scale validity</th>
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<tbody>
<tr>
<td>Greaves S., Imms C., Dodd K., Krumlinde-Sundholm L. (Australia)</td>
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<th>OP60</th>
<th>Mini-MACS; development of manual ability classification system for children with CP below 4 years</th>
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<tr>
<td>Eliasson A.C., Wahlström U., Krumlinde-Sundholm L. (Sweden)</td>
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<th>OP61</th>
<th>Psychometric properties of the revised assisting hand assessment (version 5.0)</th>
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<tr>
<td>Holmefur M., Krumlinde-Sundholm L. (Sweden)</td>
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<th>OP62</th>
<th>Manual ability classification system (MACS); evidence of stability over time</th>
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<tr>
<td>Öhrvall A.M., Krumlinde-Sundholm L., Eliasson A.C. (Sweden)</td>
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<th>OP63</th>
<th>GMFCS, MACS and CFCS in young children with CP: a prospective longitudinal case series</th>
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<tr>
<td>Karlsson P., Smithers-Sheedy H. (Australia)</td>
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### ORAL PRESENTATIONS - GROUP 13
**PARTICIPATION2 & QoL1 - FERMI HALL**

Chair: Novak I. (Australia)

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<tr>
<th>OP64</th>
<th>Early inclusive education of children with cerebral palsy in the Portuguese CP Surveillance program</th>
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<tr>
<td>Virella D., Folha T., Calado E., Gouveia R., Cadete A., Alvarelhão J.J., Andrade M.G., Portuguese Surveillance Of cerebral palsy Team (Portugal)</td>
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<th>OP65</th>
<th>Regional patterns of participation among children and youth with cerebral palsy</th>
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<tr>
<td>Palisano R., King G., Imms C., Majnemer A., Chiarello L., Orlin M., Law M. (USA)</td>
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<th>OP66</th>
<th>Participation preferences of children with cerebral palsy: a cape international network study</th>
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<tr>
<td>Imms C., King G., Majnemer A., Chiarello L., Palisano R., Orlin M., Law M. (Australia)</td>
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<th>OP66</th>
<th>Life-habit accomplishment and satisfaction in South African adults with cerebral palsy</th>
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<tr>
<td>Langerak N.G., Dix-Peek S.I., Lamberts R.P., Fieggen A.G. (South Africa)</td>
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<th>OP68</th>
<th>Self-monitoring in youth with mild spastic cerebral palsy</th>
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<tr>
<td>Van der Meere J.J., Pirila S., Hakkarainen E. (The Netherlands)</td>
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<th>OP69</th>
<th>Factors associated with health-related quality of life of children with severe cerebral palsy</th>
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### SYMPOSIUM 3 - ROOM B
**In collaboration with Italian Society of Child and Adolescent Neuropsychiatry (SINPIA)**

**TREATMENT OF CHILDREN WITH CVI**

Chair: Burr D. (Italy)

**Early identification and treatment of CVI**

*Atkinson J.* (UK)

**Spectrum of CVI in children with CP**

*Fazzi E.* (Italy)

**Early intervention strategies**

*Hyvarinen L.* (Finland)
SYMPOSIUM 4 - PACINOTTI HALL
SKELETAL MUSCLE AND THE DEVELOPMENT OF DEFORMITY IN CHILDREN WITH CEREBRAL PALSY
Chair: Damiano D. (USA)

Inside the cell: muscle function and plasticity  
**Gough M.** (UK)

From the cell to the tendon: musculotendinous unit morphology and innervation  
**Shortland A.** (UK)

Skeletal muscle development and growth  
**Gough M.** (UK)

Altered muscle growth and adaptation in children with cerebral palsy  
**Shortland A.** (UK)

Implications for intervention  
**Gough M.** (UK)

12.20 - 13.50
WORLD CP REGISTER DAY 2 - GALILEI HALL
In collaboration with SCPE-NET (Surveillance of Cerebral Palsy in Europe)
CHALLENGES IN ESTIMATING CP PREVALENCE AND RECENT TRENDS
Chair: Platt M. J. (UK)

**KEYNOTES LECTURES**

Issues in estimating prevalence and trends in cerebral palsy  
**Blair E.** (Australia)

Role of migration and choice of denominator on the prevalence of cerebral palsy  
**Van Naarden Braun K., Maenner M., Christensen D., Doernberg N., Baio J., Durkin M., Kirby R., Yeargin-Allsopp M.** (USA)

**ORAL PRESENTATIONS**

Achieving mandatory notification of cerebral palsy in Western Australia - a success story  
**Watson L., Bower C., McKenzie A., Haines H.** (Australia)

Rates of cerebral palsy in Victoria, Australia, 1970–2004: has there been a change?  
**Reid S., Reddihough D., Carlin J.** (Australia)

**Monserrat A., EU**
Guest speaker, EU Policy on Neurodevelopmental and Rare diseases

13.15 Lunch and Poster Viewing 1
Session CME Accredited

14.45 - 16.15
KEYNOTE LECTURES 3 - AUDITORIUM
Chairs: Boyd R. (Australia), Gordon A. (USA)

14.45 Blindsight in children with congenital and acquired cerebral lesions
Maria Concetta Morrone (Italy)

15.15 Orthopaedic complication in CP: are they preventable?
Gunnar Hägglund (Sweden)

15.45 Science vs. technology in paedriatic locomotor rehabilitation
Diane Damiano (USA)

16.15 Coffee Break

16.40 - 17.40
PARALLEL SESSION 5

ORAL PRESENTATIONS - GROUP 14
EARLY ASSESSMENT/TREATMENT 2 - FERMI HALL
Chair: D’Acunto G. (Italy)

OP70 Effectiveness of enrichment on motor outcomes in cerebral palsy: systematic review
Morgan C., Novak I., Badawi N. (Australia)

OP71 Cerebral palsy in children: movements and postures during early infancy
Yang H., Einspieler C., Shi W., Marschik P., Wang Y., Cao Y., Li H., Liao Y.G., Shao X.M. (Austria)

OP72 Kinetic-kinematic patterns in acquisition of prone- locomotion in infants with/out cerebral palsy
Kolobe Y.H.A., Fagg A., Pidcoe P., Miller D., Southerland J. (USA)

OP73 Network cerebral palsy: the german hip surveillance program
Jung N., Pereira B., Linder-Lucht M., Rensing-Zimmermann C., Mall V. (Germany)

OP74 Children with CP- implementation of standardized measurements and ICF based treatment plans
Nordbye-Nielsen K., Dunkhase-Heinl U., Mätzke Rasmussen H., Sørensen S.H. (Denmark)

ORAL PRESENTATIONS - GROUP 15
VISION - ROOM B
Chair: Fazzi E. (Italy)

OP75 A test to assess the dorsal visual stream perceptual function of CP child
Gonzalez Monge S., Pisella L., Andre V. (France)

OP76 Higher visual abilities and learning difficulties in children with cerebral palsy

OP77 Differences in the dynamic accommodation of children and adolescents with and without cerebral palsy
Tedorff K., Hellgren K., Jacobson L., Brautaset R., Pansell T. (Sweden)

OP78 Cortical visual impairment in diplegic learners attending special schools in Johannesburg
Bischof F., Rothenberg A., Ratcliffe I. (South Africa)

OP79 Visual impairment in cerebral palsy
ORAL PRESENTATIONS - GROUP 16
ADULTS - ROOM 6
Chair: Bjornson K. (USA)

OP80  Cardiovascular disease risk in adults with spastic bilateral cerebral palsy

OP81  An urgent need for multidisciplinary, transitional/adult care in CP: trends across 37 years
Matsumoto H., Tobert D., Romney E., Roye B., Hyman J., Vitale M., Roye D. (USA)

OP82  Physical strain of walking relates to activity level in adults with cerebral palsy
Slaman J., Bussmann H., Van der Slot W., Stam H., Roebroeck M., Van den Berg-Emons R. (The Netherlands)

OP83  Quality of life and participation in adults with cerebral palsy
Alvarelhão J., Gonçalves A. (Portugal)

OP84  Psychological group intervention for individuals with cerebral palsy: longitudinal results
Brandao D., Pais-Ribeiro J.L. (Portugal)

WORKSHOP 4 - PACINOTTI HALL
MANAGEMENT OF SPASTICITY IN CHILDREN AND YOUNG PEOPLE WITH NONPROGRESSIVE BRAIN DISORDERS
Chair: Lin J.P. (UK)
Eunson P., Carr L., Burman-Roy S. (UK)

National Institute For Health And Clinical Excellence: guideline on management of spasticity in children and young people - clinical recommendations

National Institute For Health And Clinical Excellence: guideline on management of spasticity in children and young people - research recommendations

National Institute For Health And Clinical Excellence: guideline on management of spasticity in children and young people - education and information tools

PARENTS MEET THE EXPERT 1 - AUDITORIUM
In collaboration with the International Cerebral Palsy Society (ICPS)
STEM CELLS
Ali-Fatem S. (USA)

16.40 - 18.10
WORLD CP REGISTER DAY 3 - GALILEI HALL
In collaboration with SCPE-NET (Surveillance of Cerebral Palsy in Europe)
HARMONISATION IN NEURO-IMAGING
Chair: Krägeloh-Mann I. (Germany)

KEYNOTES LECTURES
How to register neuroimaging findings in children with CP – a classification suggested by the SCPE
Horber V., Krägeloh-Mann I., on behalf of the SCPE Collaboration (Germany)

Classification of MRI in cerebral palsy: findings from an Australian study and review
Reid S. (Australia)

How do CP registers record neonatal neuroimaging information: a survey
De la Cruz J. (Spain)

ORAL PRESENTATIONS
The diagnosis of cerebral palsy with a normal brain MRI. How far do we feel confident?
Calado E., Folha T., Andrade M. (Portugal)

Severe intraventricular haemorrhage and parenchymal lesions in VLBW neonates: trends over 20 years
López-Maestro M., Gutierrez L., Gallego C., Rodriguez J., De la Cruz J., Pallàs C. (Spain)
ORAL PRESENTATIONS - GROUP 17
HIPS & SPINE 2 - ROOM B
Chair: Turconi A. C. (Italy)

OP85 Clinical characteristics of impaired trunk control in children with spastic cerebral palsy
Heyrman L., Molenaers G., Verheyden G., Desloovere K., Feys H. (France)

OP86 Motor infirmity of cervical spinal cord origin?
Misson J.P, Kaputu C., Domken V., Leroy P., Caviness V.S. (Belgium)

OP87 Asymmetrical pressure distribution in sitting position among children with CP
Ohata K., Haruta T., Hashiguchi V., Tsuboyama T. (Japan)

OP88 The effect of botox treatment in the spine muscles for cerebral paresis scoliosis
Wong C., Gosvig K.K., Pedersen S.A., Kristensen B., Sonne-Holm S. (Denmark)

OP89 Matsu’s procedure, the muscle release for treatment of hip subluxation of cerebral palsy.
Taketa M., Urano N., Oketani Y., Kubota H., Wada A., Fujii T. (Japan)

OP90 Postural management programs: clinical recommendations based on a systematic review
Gelkop N., Shenhod E. (Israel)

ORAL PRESENTATIONS - GROUP 18
PHYSICAL THERAPY 1 - AUDITORIUM
Chair: Damiano D. (USA)

OP91 Effectiveness of a six-month physical activity stimulation program for children with cerebral palsy
Van Wely L., Balemans A.C.J., Becher J.G., Dallmeijer A.J. (The Netherlands)

OP92 Habitual physical activity and sedentary behaviour of young people with diplegic cerebral palsy
Bania T., Dodd K., Taylor N. (Australia)

OP93 Physical activity questionnaire - psychometrics and factors related in children with cerebral palsy
Guttmann D., Barak S., Eisenstein E., Ackerman – Laufer S., Brezner A. (Israel)

OP94 Physical strain of walking in children with motor disabilities: walking economy or fitness problem?

OP95 Effects of strength training on the habitual activity of young people with diplegic Cerebral Palsy
Bania T., Taylor N., Dodd K. (Australia)

OP96 Step rate in comparison to heart rate reserve in children with cerebral palsy
Balemans A.C.J, Van Wely L., Middelweerd A., Van den Noort, J.C., Becher J.G.,
Dallmeijer A.J. (The Netherlands)

ORAL PRESENTATIONS - GROUP 19
FAMILY 1 - ROOM 6
Chair: Law M. (Canada)

OP97 Do goals support empowerment? a content analysis of goals in (re)habilitation plans
Jeglinsky I., Brogren Carlberg E., Aulti-Rämö I. (Sweden)

OP98 “Rashomon effect”: the problem of multiple informants in caring for the child with cerebral palsy
Breznar A., Silberg T., Elad D, Eisenstein E., Levav M., J.A. Assa J.A., S. Barak S.,
Bar O., Givon U., Urman I., Hasson-Ohayon I. (Israel)

OP99 Mental health of parents of children with cerebral palsy and the couple relationship: registry study
Morton N., I. Novak I. (Australia)

OP100 Determinants of ease of caregiving of young children with cerebral palsy
Chiarello L., Randall K., Bartlett D., Palisano R.(USA)

OP101 Respite services improve emotional well-being of caregivers of children with cerebral palsy
Johnston L., Larkin R., Marx E., Gordon A. (Australia)

OP102 Musculoskeletal disorders in caregivers of children with CP following a multilevel surgery
Padinjbattathil Sasidharan A., Sharan D., Manikandan M., Dhar U., Ranganathan R., Jose J.,
Mohandoss M. (India)
SYMPOSIUM 5 - FERMI HALL
In collaboration with La Fondation Motrice and Sodiaal (Paris)
NEW TOOLS FOR EARLY ASSESSMENT OF PERCEPTUAL MOTOR FUNCTION IN INFANTS AT RISK FOR CP
Chair: Einspieler C. (Austria)

Measurements of functional gaze
Von Hofsten C., Rosander K., Cioni G., Sgandurra G., Beani E., Orlando M., Coluccini M., Stromberg B. (Sweden)

Development of a new assessment tool to study bilateral hand function in infants with unilateral cerebral palsy: the HAI (Hand Assessment for Infants)
Krumlinde-Sundholm L., Sicola E., Sjostrand L., Sgandurra G., Eliasson A.C. (Sweden)

Design and development of a biomechatronic gym for the study of unilateral and bimanual reaching and grasping in infancy
Cecchi F., Sgandurra G. (Italy)

SYMPOSIUM 6 - PACINOTTI HALL
In collaboration with the European Academy of Childhood Disability (EACD)
CARE OF CP - A GLOBAL PERSPECTIVE
Chair: Forssberg H. (Sweden)

A global perspective on management of cerebral palsy - Introduction
Forssberg H. (Sweden)

cerebral palsy and childhood disability in Russia
Batysheva T. (Russia)

Care of Children with cerebral palsy in China
Hong Y. (China)

Care of Children with cerebral palsy in Africa
Kakooza A. (Uganda)
18.10 - 19.40
WORLD CP REGISTER DAY 4 - GALILEI HALL
In collaboration with SCPE-NET (Surveillance of Cerebral Palsy in Europe)
QUALITY OF CARE, INCLUDING TRANSITION TO ADULTHOOD: HOW CAN REGISTERS HELP?
Chair: Colver A. (UK)

KEYNOTES LECTURES

Life-expectancy in cerebral palsy
_**Hutton J.** (UK)

Development of a clinical research programme around a CP register – improving quality of care
_**Himmelmann K.** (Sweden)

Using a register to audit quality of care
_**Horridge K., Balu R., Tennant P., Rankin J., Bythell M., Hiley C., Braun T.** (UK)

ORAL PRESENTATIONS

How is growth and nutrition assessed in European children with cerebral palsy?
_**Hollung S., Andersen G.L., Torstein V.** (Norway)

Gastrostomy tube feeding of children with cerebral palsy: variation across 6 European countries
_**Dahlseng M. O., Horridge K., Arnaud C., Uldall P., Da Graça Andrade M., Sigurdardottir S., Himmelmann K., De la Cruz J., Andersen G., Torstein V., on behalf of the Surveillance of cerebral palsy in Europe Network (SCPE-NET)** (Norway)

Cost of medical & allied health resource use in preschool age children with cerebral palsy
_**Jordan R., Pareezer L., McKinlay L., Ware R., Kentish M., Boyd R.** (Australia)
**Friday, 12th October 2012**

**Session CME Accredited**

08.00 - 09.00

**TRAINING COURSES**

**TRAINING COURSE 7 – AUDITORIUM**
Treatment planning targeting functional hand use for children with unilateral CP 8 mths - 12 y of age  
*Krumlinde-Sundholm L. (Sweden), Hoare B., Greaves S. (Australia)*

**TRAINING COURSE 8 – ROOM B**
Orthopedic surgery for adolescents and adults with cerebral palsy  
*Shrader M.W. (USA)*

**TRAINING COURSE 9 – ROOM 6**
Positioning and eye-gaze for successful communication with children with complex communication needs  
*Brady T., Ni Mhurchú D. (Ireland)*

**TRAINING COURSE 10 – PACINOTTI HALL**
Influence of reduced lower extremity motor control in children with spastic cerebral palsy  
*Fowler E., Oppenheim W., Rose J. (USA)*

**TRAINING COURSE 11 – GALILEI HALL**
Sleep problems in the child with neurodevelopmental disorders  
*Milo-Manson G. (Canada)*

**TRAINING COURSE 12 – FERMI HALL**
Whose life is it anyway? Measuring meaningful outcomes for children with severe cerebral palsy  
*Narayanan U. (Canada)*

09.00 Pause

**Session CME Accredited**

09.25 - 10.55

**KEYNOTE LECTURES 4 - AUDITORIUM**

Chairs: Castelli E. (Italy), Gorter J.W. (Canada)

09.25 Brain Fitness: Tailoring rehabilitation for children with cerebral palsy  
*Roslyn Boyd (Australia)*

09.55 Motor learning and planning: implications for treatment  
*Andrew Gordon (USA)*

10.25 Perceptual and spatial memory disorders in CP  
*Alain Berthoz (France)*

10.55 Coffee Break
ORAL PRESENTATIONS - GROUP 20
IMAGING - PACINOTTI HALL
Chair: Krageloh-Mann I. (Germany)

OP103 Assessment of the structural connectome reveals altered connectivity in children with unilateral CP
Pannek K., Scheck S., Boyd R., Rose S. (Australia)

OP104 Subcortical grey matter morphology in congenital hemiplegia
Scheck S., Rose S., Boyd R., Pannek K. (Australia)

OP105 Using diffusion tensor imaging to visualize functional motor pathways in children with hemiplegia

OP106 Outcome of cimt in relation to corticomotor projection pattern and brain lesion in unilateral CP
Nordsdstrand L., Islam M., Holmström L., Kits A., Eliasson A.C. (Sweden)

OP107 The anterior cingulate cortex in congenital hemiplegia
Scheck S., Boyd R., Bodimeade H., Whittingham K., Rose S. (Australia)

ORAL PRESENTATIONS - GROUP 21
GAIT 2 - FERMI HALL
Chair: Rose J. (USA)

OP108 “Habit & leg”, a new intervention for improving bimanual coordination and lower extremity function
Bleyenheuft Y., Arnould C., Brandao M., Bleyenheuft C., Gordon A. (Belgium)

OP109 Changes in GMFCS levels more than 15 years after selective dorsal rhizotomy or orthopaedic surgeries
Langerak N.G., Dix-Seek S.I., Lamberts R.P., Fieggen A.G. (South Africa)

OP110 Dynamic vs static kafo orthoses in the treatment of knee flexion contractures in children CP
Heymann I., Laluc A., Paysant J. (France)

OP111 Effect of treadmill gait training in cerebral palsy children
Alcântara de Torre C., De Paula Carvalho R., Woollacott M., Tudella E. (Brazil)

OP112 Concept for the orthotic treatment of gait problems in CP with regard to the pathological gait
Von Corvin-Wiersbitzki A.M. (Germany)

WORKSHOP 5 - GALILEI HALL
UPDATE ON DYSKINESIA IN CHILDREN
Chair: Blackman J. (USA)

New genetic forms
Leuzzi V. (Italy)

Deep brain stimulation for dystonia-dyskinesia in children
Lin J.P. (UK)

Scales for intervention trials
Battini R. (Italy)
WORKSHOP 6 - ROOM 6
POSTURAL MANAGEMENT AND MINIMAL INVASIVE SURGERY TO PREVENT HIP DISLOCATION IN CHILDREN WITH CP
Chair: Ferrari A. (Italy)

The prevention of hip dislocation in children with CP. The role of postural management
Picciolini O., Cozzaglio M., Consonni D. (Italy)

The siège moulé: evaluation criteria and custom seat setting up
Cozzaglio M., Porro M., Picciolini O. (Italy)

Multilevel minimally-invasive approach (MMA) for prevention of hip disorders in CP
Portinaro N., Panou A., Terranegra P., Panuccio E. (Italy)

WORKSHOP 7 - ROOM 7
In collaboration with La Fondation Motrice and Sodiaal (Paris)
SPATIAL MEMORY & LOCOMOTION IN CHILDREN
Chair: Brovedani P. (Italy)

Introduction
Berthoz A. (France)

Is spatial memory during locomotion different from other types of spatial memories?
Guariglia C. (Italy)

Spatial memory and path planning for locomotion are specifically affected in children with congenital brain lesions
Belmonti V., Brovedani P., Capuzzo Y., Susino C., Cioni G., Berthoz A. (Italy)

How specific are cognitive functioning deficits in visuospatial short term memory in “mild cognitive impairment” patients?
Kemoun G. (France)

PARENTS MEET THE EXPERT 2 - AUDITORIUM
In collaboration with the International Cerebral Palsy Society (ICPS)
GROWTH AND NUTRITION
Stevenson R. (USA)
### ORAL PRESENTATIONS - GROUP 22

**PAIN - FERMI HALL**

Chair: Narayanan U. (Canada)

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<th>Presentation</th>
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<tr>
<td>OP113</td>
<td>The impact of pain on daily activities in children and youth with cerebral palsy</td>
<td>Fehlings D., Xie W.X., Penner M., Switzer L., Narayanan U. (Canada)</td>
</tr>
<tr>
<td>OP116</td>
<td>Concerns about assessment and treatment of postoperative pain in children with cerebral palsy</td>
<td>Shrader M.W., Jones J., Nowlin M., Segal L.S. (USA)</td>
</tr>
<tr>
<td>OP117</td>
<td>Medical clowning is effective in reducing pain in children with cerebral palsy undergoing botulinum</td>
<td>Cohen A., Kroyzer N., Lotem-Ophir R., Pollak Y., Ben-Pazi H. (Israel)</td>
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### ORAL PRESENTATIONS - GROUP 23

**COGNITION - PACINOTTI HALL**

Chair: Berthoz A. (France)

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<tr>
<td>OP118</td>
<td>Predicting response to dysarthria therapy by children with cerebral palsy</td>
<td>Pennington L., Randle G., Roelant E., Thompson V., Robson S., Steen N., Miller N. (UK)</td>
</tr>
<tr>
<td>OP119</td>
<td>Higher-order executive function skills amongst children with congenital hemiplegia</td>
<td>Bodimeade H., Whittingham K., Boyd R., Lloyd O.N. (Australia)</td>
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<tr>
<td>OP120</td>
<td>Language comprehension in young people with severe CP in relation to language tracts: a DTI study</td>
<td>Vermeulen R.J., Harlaar L., Geytenbeek J., Oostrom K.J., Barkhof F., Pouwels P. (The Netherlands)</td>
</tr>
<tr>
<td>OP122</td>
<td>Which cognitive and motor affect the early numeracy performance of children with cerebral palsy?</td>
<td>Van Rooijen M., Verhoeven L., Stembergen B. (The Netherlands)</td>
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### ORAL PRESENTATIONS - GROUP 24

**RHIZOTOMY AND ITB - ROOM 6**

Chair: Copeland L. (Australia)

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<tr>
<td>OP123</td>
<td>Motor function after selective dorsal rhizotomy, a 10-year practise based follow-up study</td>
<td>Lundkvist Josenby A., Wagner P., Nordmark E., Jarnlo Gun-Britt, Westbom L. (Sweden)</td>
</tr>
<tr>
<td>OP124</td>
<td>Effectiveness of selective dorsal rhizotomy in adolescents/young adults with cerebral palsy</td>
<td>Tobert D., Matsumoto H., Hyman J., Roye B., Anderson R., Roye D. (USA)</td>
</tr>
<tr>
<td>OP125</td>
<td>The results of collaborative study mundys on ITB</td>
<td>Giordano F., Armando M., Battini R., Costici F., Massimi L., Castelli E., Iannelli A., Di Rocco C., Cioni G., Guerrini R., Genitori L. (Italy)</td>
</tr>
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WORKSHOP 8 - ROOM 7
IDENTIFYING CLINICALLY RELEVANT RESEARCH QUESTIONS
Chair: McIntyre S. (Australia)

The use of the EUnetHTA core model to identify clinically relevant research questions
Autti-Rämö I. (Finland)

Partnerships between families, service providers and researchers to identify research questions
Morris C. (UK)

Back to the roots - the foundation of clinically relevant research
Haataja L. (Finland)

WORKSHOP 9 - ROOM B
SALIVA CONTROL: MULTIDISCIPLINARY MANAGEMENT AND RESEARCH FINDINGS
Chair: Pennington L. (UK)

Behavioural approaches, medications and appliances
Reddihough D. (Australia)

Assessment tools, evaluation of botulinum toxin
Reid S. (Australia)

Dental management
Desai M. (Australia)

WORKSHOP 10 - GALILEI HALL
In collaboration with the Italian Society of Physical Medicine and Rehabilitation (SIMFER)
EXPERIENCES ON NEW TECHNOLOGIES IN PEDIATRIC REHABILITATION
Chair: Posteraro F. (Italy)

New technologies in pediatric rehabilitation
Castelli E. (Italy)

Novel robotic system for multiaxial dynamic posturography
Cappa P. (Italy)

Robotic-assisted gait training in children affected by cerebral palsy
Turconi A.C., Piccinini L. (Italy)

PARENTS MEET THE EXPERT 3 - AUDITORIUM
In collaboration with the International Cerebral Palsy Society (ICPS)
EVIDENCE-BASED TREATMENTS
Forssberg H. (Sweden)

13.25 Lunch and poster viewing 2
Session CME Accredited

14.55 - 16.25
 KEYNOTE LECTURES 5 - AUDITORIUM
 Chairs: Novak I., Reddihough D. (Australia)

14.55 Quality of life and participation of persons with CP
 Allan Colver (UK)

15.25 Growth, nutrition, physical development and health in children and youth with CP
 Richard Stevenson (USA)

15.55 Families: our most important partners in the care of CP
 Mary Law (Canada)

16.25 Coffee Break

16.50 - 17.55
 PARALLEL SESSION 9

ORAL PRESENTATIONS - GROUP 25
 UPPER LIMB TREATMENT 2 - FERMI HALL
 Chair: Sicola E. (Italy)

OP127 Bimanual skills and the corpus callosum- brain behavior relationships in children with hemiplegia
 Dido G., Weinstein M., Myers V., Artzi M., Shiran S., Gordon A., Schertz M., Geva R.,
 Fattal-Velevski A., Lin J.P., Ben Bashat D. (UK)

OP128 Motor cortex representations expand after bimanual training in children with hemiplegia
 Friel K., Kuo H.C., Luber B., Carmel J.B., Goswatsky J.L., Ferre C.L., Stanford A.D.,
 Rowny S.B., Lisanby S.H., Gordon A.M. (USA)

OP129 fMRI imaging as predictor of efficacy of constraint-induced therapy in hemiplegic children
 Turconi A.C., Rocca M., Beretta E., Absinta M., Strazzer S., Valsasina P., Cazzagon M.,
 Falini A., Comi G., Filippi M. (Italy)

OP130 Randomized trial of home-based constraint-induced movement therapy combined with
 intensive therapy
 Klingels K., Feys H., Molenaers G., Berbeke G., Van Daele S., Hoskens J., Desloovere K.,
 De Cock P. (Belgium)

OP131 Effectiveness of booster cimt-bit for children and adolescents with unilateral upperlimb paresis
 Geerdink Y., Aarts P., Geurts A. (The Netherlands)

ORAL PRESENTATIONS - GROUP 26
 HIPS & SPINE3+QoL2 - ROOM 7
 Chair: Wynter M. (Australia)

OP132 Influence of hip luxation on health related quality of life (HRQol) in children with cerebral palsy
 Jung N., Pereira B., Brix O., Bernius P., Schroeder S., Beyerlein A., Weir S., Von Kries R.,
 Narayanan U., Berweck S., Mall V. (Germany)

OP133 Quality of life improves after spinal deformity correction in children with neuromuscular disease
 Matsumoto H., Tobert D., McCalla D., Hyman J., Roye B., Vitale M., Roye D. (USA)

OP134 Gait outcomes assessment list: developing a meaningful outcome measure for ambulatory
 cerebral palsy
 Narayanan U., Davidson B., Karpati F., Weir S. (Canada)

OP135 The role of ergonomics in the care of children with cerebral palsy
 Sharan D., Padinjattethil Sasidharan A. (India)
WORKSHOP 11 - PACINOTTI HALL
ASSESSMENT AND MANAGEMENT OF PAIN IN CHILDREN AND YOUTH WITH CEREBRAL PALSY
Chair: Stevenson R. (USA)
Fehlings D., Narayanan U. (Canada)

WORKSHOP 12 - ROOM 6
THE FUTURE OF REHABILITATION? USE OF WEB BASED REHABILITATION FOR PERSONS WITH CEREBRAL PALSY
Chair: Gorter J.W. (Canada)

Introducing the future of rehabilitation
Boyd R. (Australia)

Current evidence for virtual reality and web based interactive training
Mitchell L. (Australia)

MITII: Move It To Improve It - background and applications
Kliim-Due M., Rasmussen B., Mitchell L. (Denmark)

MITII: Move It To Improve It - practical workshop
Kliim-Due M., Rasmussen B., Boyd R., Mitchell L. (Denmark)

Future directions for neuro-rehabilitation
Kliim-Due M., Rasmussen B., Boyd R., Mitchell L. (Denmark)

WORKSHOP 13 - GALILEI HALL
COGNITIVE FUNCTIONING AMONG CHILDREN WITH CEREBRAL PALSY: THE STRENGTHS AND DIFFICULTIES
Chair: Krumlinde-Sundholm L. (Sweden)

Cognitive and communicative profiles of icelandic preschool children with cerebral palsy
Solveig S., Torstein V. (Iceland)

Predicting cognitive functioning in children with spastic cerebral palsy
Ahonisska-Assa J., Silberg T., Levav M., Brezner A. (Israel)

Executive functions in youth with spastic cerebral palsy
Pirila S., Van der Meere J.J. (Finland)

Cognitive functioning of children with spastic CP varies with environmental support of child participation
Bøttcher L., Dammeyer A.J. (Denmark)

Skill learning among children with spastic CP
Gofer-Levy M., Silberg T., Brezner A., Vakil E. (Israel)
PARALLEL SESSION 10

ORAL PRESENTATIONS - GROUP 27
BOTULINUM TOXIN - PACINOTTI HALL
Chair: Battini R. (Italy)

OP136 The BoBiVa (Botulinum Toxin Bimanual Skills) study in unilateral CP children
  Speth L., Janssen-Potten Y., Vles J., Rameckers E. (The Netherlands)
OP137 Motor end plate targeted botulinum toxin injections in the psoas muscle gives muscle atrophy on MRI.
  Van Campenhout A., Verhaegen A., Pans S., Molenaers G. (Belgium)
OP138 Efficacy of a second episode of Botulinum Toxin-A for care/comfort in children with cerebral palsy
OP139 Exploring relationships of selective muscle control and activity-measures using ICF as framework
  Löwing K., Thews K., Haglund Y., Gutierrez Farewik L. (Sweden)
OP140 Evaluating hypertonia in cerebral palsy: early results from the hype-CP study
  Rice J., Russo R., Baker F., Spizzo M., Sealby C. (Australia)

ORAL PRESENTATIONS - GROUP 28
PROGNOSIS - ROOM 6
Chair: Torstein V. (Norway)

OP141 Survival in cerebral palsy in western Sweden
  Himmelmann K., Hagberg G., Sundh V. (Sweden)
OP142 Heart rate characteristics are associated with abnormal brain ultrasound and MRI in elbw infants
  Blackman J., Fairchild K., Sinkin R., Matsumoto J., Davalian F., Lake D., Moorman J.R. (Usa)
OP143 “How bad is it?” clinical prognostic messages for cerebral palsy
  Novak I., Goldsmith S., Hines M., Barclay R. (Australia)
OP144 Increased mortality in cerebral palsy: a population based register study.
  Uldall P., Flachs E.M., Michelsen S.I., Brønnum-Hansen H., Ravn S.H. (Denmark)
OP145 Survival in children and adolescents with cerebral palsy: a total population study
  Westbom L., Bergstrand L., Wagner P., Nordmark E. (Sweden)

ORAL PRESENTATIONS - GROUP 29
PERCEPTION & ROBOTICS - ROOM 7
Chair: Rasmussen B. (Denmark)

OP146 Spatial orientation and gait characteristics in children with cerebral palsy
  Petrarca M., Cappa P., Zanelli G., Armando M., Castelli E., Berthoz A. (Italy)
OP147 fMRI changes in hemiplegic cerebral palsy children after a robotic assisted rehabilitation therapy
OP148 Impact of tactile deficits on upper limb motor function in children with unilateral cerebral palsy
  Auld M., Boyd R., Mosely G.L., Ware R., Johnston L. (Australia)
SYMPOSIUM 7 - AUDITORIUM

“IT IS MY LIFE”. PROMOTING AUTONOMY IN ADULT LIFE FOR YOUNG PEOPLE WITH CHILDHOOD ONSET DISABILITY
Chair: Law M. (Canada)

Young adult teams: interventions to empower young people with disabilities
Roebroeck M.E., Van Der Slot W., Verhoef J.A.C. (The Netherlands)

Teen transition teams: helping youth with CP and families to prepare for adult life
Gorter J.W. (Canada)

Intervention active lifestyle and sports participation: towards healthy adult behaviour
Van Den Berg-Emons H.J.G., Slaman J. (The Netherlands)

SYMPOSIUM 8 - GALILEI HALL

FITNESS AND PHYSICAL ACTIVITY STIMULATION IN THE TREATMENT OF CHILDREN WITH CEREBRAL PALSY
Chair: Fowler E. (USA)

The role of fitness in the rehabilitation treatment of children with cerebral palsy
Balemans A.C.J. (The Netherlands)

Physical activity stimulation for children with cerebral palsy by motivational interviewing
Van Wely L. (The Netherlands)

Clinical examples of implementing fitness assessment in the rehabilitation treatment of children with cerebral palsy
Becher J.G., Dallmeijer A.J. (The Netherlands)

SYMPOSIUM 9 - FERMI HALL

REORGANIZATION OF MOTOR AND PERCEPTUAL FUNCTIONS AND CLINICAL CORRELATES
Chair: Guzzetta A. (Italy)

Reorganisation of sensorimotor system and clinical correlates – fMRI
Krageloh-Mann I. (Germany)

Clinical correlates of advanced electrophysiological techniques
Eyre J. (UK)

Use of advanced DWI techniques
Pannek K. (Australia)

OP149 Immediate effect of functional electrical stimulation in cerebral palsy: a systematic review
Chiu H.C., Ada L. (Taiwan)

OP152 Temporal order judgement in children with unilateral cerebral palsy
Auld M., Johnston L., Miskin E., Ware R., Gallace A., Boyd R., Moseley G.L. (Australia)
Session CME Accredited

08.00 - 09.00
TRAINING COURSES

TRAINING COURSE 13 – AUDITORIUM
Future lines of research in constraint-induced movement therapy for children: what is the next step? Eliasson A.C., Hoare B. (Sweden), Gordon A. (USA), Autti-Rämö I. (Finland)

TRAINING COURSE 14 – GALILEI HALL
A sequenced rehabilitation following single event multilevel surgery for Cerebral Palsy Sharan D. (India)

TRAINING COURSE 15 – FERMI HALL
Using the Communication Function Classification System (CFCS) Cooley-Hidecker M.J. (USA)

TRAINING COURSE 16 – ROOM 6
Training postural control in children with CP Stortini M., Pasquale A., Rosellini R., Giannarelli P. (Italy)

TRAINING COURSE 17 – PACINOTTI HALL
Lifespan expectations for individuals with cerebral palsy Tan S.S., Dallmeijer A.J., Ketelaar M. (The Netherlands)

TRAINING COURSE 18 – ROOM B
Dysphagia/feeding disorders in children with neurological disabilities: assessment and management Cerchiari A., Carosi F. (Italy)

09.00 - 09.30
SPECIAL LECTURE - AUDITORIUM
ADVANCES IN ROBOTICS AND REHABILITATION
Chair: Cioni G. (Italy)

Paolo Dario (Italy)

Session CME Accredited

09.30 - 10.30
KEYNOTE LECTURES 6 - AUDITORIUM
Chairs: Bonuccelli U., Dell’Osso L. (Italy)

09.30 Adolescents and psychiatric disorders Gabriele Masi (Italy)

10.00 Epilepsy and CP Renzo Guerrini (Italy)

10.30 Coffee Break
10.50 - 12.05
PARALLEL SESSION 11

ORAL PRESENTATIONS - GROUP 30
GAIT 3 + POSTURE - GALILEI HALL
Chair: Rose J. (USA)

OP151 Multidimensional assessment of outcome of functional orthopedic surgery in ambulatory CP children
Faccioli S., Benedetti M., Neviani R., Costi S., Reverberi S., Borghi C., Ferrari A. (Italy)

OP152 Triceps surae’s stretching casts in children with cerebral palsy
Cozzaglio M., Matteo P., Saronni G., Picciolini O. (Italy)

OP153 Dynamic seat system vs rigid seat system in CP: a quantitative comparison
Avellis M., Turconi A.C., Cimolin V., Piccinini L., Cazzaniga A., Galli M. (Italy)

OP154 The effect of targeted training on the gross motor function of children with cerebral palsy
Curtis D., Bencke J., Bandholm T., Bloch Lauridsen H., Woollacott M., Sonne-Holm S. (Denmark)

OP155 Assessment and treatment of postural control in children with motor impairment
Butler P., Bew S. (UK)

ORAL PRESENTATIONS - GROUP 31
GROWTH - ROOM 6
Chair: Coluccini M. (Italy)

OP156 Energy requirements in preschool-aged children with cerebral palsy
Walker J., Bell K., Boyd R., Davies P. (Australia)

OP157 Validation of a three-day weighed food record in preschool-aged children with cerebral palsy
Walker J., Bell K., Boyd R., Davies P. (Australia)

OP158 Bone mineral density and vitamin D status in children with cerebral palsy. A cross-sectional Study

OP159 Nutritional status of children with cerebral palsy in a poor peri-urban african community Setting
Salojee G. (South Africa)

OP160 Structural properties of quality in the the cerebral palsy follow-up program in Denmark (CPUP)

OP161 Towards the development of the ICF-cy core sets for children and youth with CP: global expert survey
Schiariti V., O'Donnell M., Cieza A., Mässe L., Sauve K., Klassen A., Armstrong R. (Canada)

ORAL PRESENTATIONS - GROUP 32
REMOTE - ROOM B
Chair: Waugh M.C. (Australia)

OP162 A long way away: profile of cerebral palsy in the remote Northern Territory, Australia
Rice J., Russo R., Baker F., Greenstein C. (Australia)

OP163 A short intense therapeutic strategy significantly improves outcomes for poor rural children with CP
Salojee G. (South Africa)

OP164 Cultural validation of measures related to families of Children with cerebral palsy in Jordan
Almasri N., Saleh M. (Jordan)

OP165 Retrospective study: classification, capabilities and co-morbidities of Thai children with CP
Tantilipikorn P., Watter P., Prasertsukdee S. (Australia)

OP166 Study of the pattern of cerebral palsy among children in Alexandria, Egypt
Abdeldayem H., Kamel F., Khalil M., Mansi S. (Egypt)

OP167 Population-based study of rehabilitation services provided for children with cerebral palsy
Almasri N., Saleh M. (Jordan)
SYMPOSIUM 10 - PACINOTTI HALL
GMS AND CEREBRAL PALSY
Chair: Ghirri P. (Italy)

General guidelines for GMs assessment and dyskinetic CP
Einspieler C. (Austria)

Focal lesions, hemiplegia and GMs
Guzzetta A. (Italy)

Quality of repertoire GMs and severity of CP
Bos A. (The Netherlands)

Prediction of CP: neuroimaging and GMs
Ferrari F. (Italy)

SYMPOSIUM 11 - FERMI HALL
MIRROR NEURON SYSTEM AND CP
Chair: Eliasson A.C. (Sweden)

Mirror neuron system and its role in motor development and motor reorganization
Fogassi L. (Italy)

Results of a randomized control trial of action-observation therapy in CP
Ferrari A. (Italy)

Evidence of mirror neuron activity in brain damaged children
Biagi L., Sgandurra G. (Italy)

PARENTS MEET THE EXPERTS 5 - AUDITORIUM
In collaboration with the International Cerebral Palsy Society (ICPS)
TRANSITION TO ADULTHOOD
De Lattre C. (France)
ORAL PRESENTATIONS - GROUP 33
NON-AMBULATORY - ROOM B
Chair: Paolicelli P.B. (Italy)

OP168 Safety of a second episode of botulinum toxin-a for care/comfort in children with cerebral palsy

OP169 Presentation of French "Cohort of children with severe forms of cerebral palsy"
Poirot I., Kassai-Koupaï B., Laudy V. (France)

OP170 Day and night body position and movement in children with severe cerebral palsy
Sato H., Iwasaki T., Yokoyama M., Inoue T. (Japan)

OP171 The Morgan Paleg Hypotonia Scale
Paleg G., Morgan A. (USA)

OP172 Results of a 2 year study investigating the influence of home based therapy on cerebral palsy
Driscoll M., Blyum L. (Canada)

ORAL PRESENTATIONS - GROUP 34
FAMILY 2 - ROOM 6
Chair: De Lattre C. (France)

OP173 The unmet family needs and perceived stress in parents with children with cerebral palsy
Bertule D., Vetra A. (Latvia)

OP174 Parents expectations regarding children with cerebral palsy’s future
Barak S., Elad D., Eisenstein E., Bar O., Givon U., Brezner A. (Israel)

OP175 “Our child’s significant disability shapes our lives”: Experiences of family social participation.
Davey H., Imms C., Bourke-Taylor H., Fossey E. (Australia)

OP176 The influence of parenting style in the evolution of child with cerebral palsy (CP)
Padure L., Morcov V., Nae M., Preduca L., Dragan C., Iancu L. (Romania)

OP177 Parent perceptions of family-centered practice for children with cerebral palsy in Jordan
Saleh M., Almasri N. (Jordan)

ORAL PRESENTATIONS - GROUP 35
PHYSICAL THERAPY 2+GAIT 4 - FERMI HALL
Chair: Dellmeyer A. (The Netherlands)

OP178 Walking stride rates patterns children with cerebral palsy
Bjornson K., Zhou A., Stevenson R., Christakis D. (USA)

OP179 Influence of pelvic kinematics on lower limb rotational deviations during gait

OP180 Muscle strength is related to the one-minute walk test in young children with cerebral palsy

OP181 How active are they? Habitual physical activity and motor function in toddlers with cerebral palsy
Oftedal S., Bell K.L., Davies P.S.W., Ware R., Boyd R. (Australia)

OP182 Heart rate variability in children with cerebral palsy and acquired brain injury
Barak S., Eisenstein E., Ackerman-Laufer S., Guttman D., Brezner A. (Israel)
ORAL PRESENTATIONS - GROUP 36
MENTAL HEALTH - PACINOTTI HALL
Chair: Chilosi A. (Italy)

OP183 Psychological problems in adolescents with cerebral palsy: a European longitudinal study

OP184 Social support services mediate emotional well-being of caregivers of children with cerebral palsy
Johnston L., Gordon A., Lang C., Larkin R. (Australia)

OP185 Self-reported mental health in children with cerebral palsy 8-18 years old
Ramstad K., Jahnsen R., Diseth T.H. (Norway)

OP186 Systematic review of self-concept measures for primary school aged children with cerebral palsy
Johnston L., Cheong S.K. (Australia)

OP187 How school ready are pre-school aged children with cerebral palsy?
Boyd R., Gehrmann F., Ware R. (Australia)

OP188 Social factors determining physically activity in adolescents with cerebral palsy
Gorter J.W., Jackson D., Galuppi B., Shimmel L., Wright M. (Canada)

SYMPOSIUM 12 - GALILEI HALL
SUPPORTING OUTCOMES OF YOUNG CHILDREN WITH CP:
IMPLICATIONS FROM THE MOVE & PLAY STUDY
Chair: Belmonti V. (Italy)

The move & play study: research aims, conceptual model, and methods
Chiarello L. (USA)

Determinants of motor function of young children with cerebral palsy
Westcott McCoy S. (USA)

Determinants of self-care of young children with cerebral palsy
Westcott McCoy S. (USA)

Determinants of participation and playfulness of young children with cerebral palsy
Chiarello L. (USA)

Summary & considerations for clinical practice
Palisano R. (USA)

12.05 - 13.15
PARENTAL FORUM - AUDITORIUM

13.15 Closing Ceremony and Awards
POSTER SESSIONS

All Poster Session will take place on the 1st floor of the Congress Venue. Posters cannot exceed these dimensions: 95 cm W x 135 cm H. The presenters must attach their poster on the poster board marked with the same number they have previously received. Material to affix will be provided by the Organizing Secretariat.

Presenting authors should stand-by their poster during their assigned time (authors can also elect to stay longer). Attendees expect authors to be available and willing to engage in dialogue about the work displayed.

Thursday, 11th October 2012

13.15 - 14.45
POSTER VIEWING 1

Posters of this session will be displayed in suitable areas of the Conference venue on the 10th and the 11th of October 2012. The presenters are required to be present next to it, to answer questions from participants, in the session of guided tours scheduled during the lunch time of the 11th of October, 13.15-14.45
Please set-up your poster on Wednesday, October 10th from 9.00 and remove it on Thursday, October 11th within 17.00.
IMPORTANT! Posters not removed by the end of the posted teardown time will be trashed!

1 Early diagnosis and treatment, Etiology, Prognosis

P1 Is the prevalence of cerebral palsy related to perinatal care quality? Van Bakel M.M.E., Cans C. (France)

P2 Etiological factors of cerebral palsy of children born in the University Teaching Hospital in Mostar Vukojević M., Granić L., Boban-Raguž A., Varunek V. (Bosnia-Herzegovina)

P3 Citomegalovirus and cerebral palsy: a population based cohort study from ACPR Smithers-Sheedy H., Raynes-Greenow C., McIntyre S., Badawi N., Jones C. (Australia)

P4 Etiology does not play a role in the extent of psychopathology in children with cerebral palsy Levy-Zaks A., Pollak Y., Ben-Pazi H., Gross-Tsur V. (Israel)

P5 Cerebral palsy attributed to injury or postneonatal infection, metropolitan Atlanta, 1991–2008 Christensen D., Doernberg N., Van Naarden Braun K., Peacock G., Yeargin-Allsopp M. (USA)


P7 Early hand function in unilateral cerebral palsy: correlation with corticomotor reorganization Baranello G., Rossi Sebastiano D., Ciano C., Fumarola A., Arnoldi M.T., Corlatti A., Foscan M., Marchi A., Erbetta A., Pagliano E. (Italy)
P8  Structural and developmental correlates of fidgety movements in high risk premature infants Peyton C., Yang E., Piantino J., Adde L., Fjortoft T., Drobyshovsky A., Schreiber M., Msall M.E. (USA)


P12  Dyskinetic cerebral palsy in asphyxiated term neonates – the challenge to identify mild lesions Mejaski Bosjak V., Kraegeloh-Mann I., Dakovic I., Marjanovic J., Grmoja T. (Croatia)

P13  Cerebral palsy in very preterm children: results of the population based action study Cuttin M., Caravale A., Piga S., Chiandotto V., Corchia C., Da Fré M., Carnielli V., Di Lallo D., Fertz C., Miniacci S., Rusconi F. (Italy)


3 Cognition, Vision, Perception, Communication and speech

P15  Written language acquisition in hemiplegic children with congenital unilateral focal brain lesions Lenzi S., Chilosi A., Brovedani P., Cristofani P., Pecini C., Gasperini F., Brizzolara D., Cioni G. (Italy)

P16  A functional classification system of eating and drinking ability for individuals with CP Sellers D., Carter M., Hankins M., Mandy A., Morris C., Pennington L., Pountney T. (UK)

P17  Does motor impairment severity significantly predict volume of SLT contact in children with CP? Walsh L., Gibbon F., Brady T., Ni Mhurchu D. (Ireland)

P18  Reliability of the Nordic Orofacial Test – Screening in children and youth with cerebral palsy Edvinsson S., Lundqvist L-O (Sweden)


P21  Perception of action in children diagnosed with spastic cerebral palsy Ritterband-Rosenabum A., Nielsen J.B. (Denmark)

P22  Motor and processing skills performance perception evaluation in people with cerebral palsy Santamaria M., Aguila A.M. (Spain)

P23  Culla ©, an environment for enhancing the experience of children with cerebral palsy: a case study Cerioli M. (Italy)

P24  Intensive mental training, intratechal baclofen and OMT may lead to development of visual functions Kousa I., Hyvärinen L. (Finland)

P26 Using a virtual reality – based therapy system to children with cerebral palsy
Takashio J., Kobashi N. (Japan)

P27 Perception of gasping biological movement in children with cerebral palsy
Tinelli F., Campanella F., Campanella A., Beani E., Cioni G., Sandini G., Morrone M.C. (Italy)

P28 Neuropsychological profiles at the Nepsy-II in children with congenital hemiplegia and diplegia: preliminary findings
Di Lieto M.C., Brovedani P., Pecini C., Chilosi A.M., Belmonti V., Fabbro F., Urgesi C., Cioni G. (Italy)

4 Soft tissues surgery, Botulinum toxin

P29 BTX-A injections supporting system – the BTX-A electronic card on TRANGO24 E-health platform
Bonikowski M., Czernuszenko A., Czernuszenko J. (Poland)

P30 Associated reactions at different levels of force in cerebral palsy
Chiu H.C., O’Dwyer N., Halaki M. (Taiwan)

P31 Impact on QoL of patients with CP and spasticity related pain of BTX-A treatment
Frisca M., Gimeno F., Vidal J., Frisica M. (Spain)

P32 Outcomes of single and multiple session operative soft tissue procedures in cerebral palsy
Gunay H., Mahmudov V., Kucuk L., Coskunol E. (Turkey)

P33 The application of myofascial trigger point therapy to muscle with spasticity
Mitchell N., Elmott M. (Australia)

P34 Effect of an intensive and sequenced rehabilitation in the functional outcome after SEMLS in CP
Padinjattethil Sasidharan A., Sharan D. (India)

P35 Results of 12 years of experience in the use of botulinum toxin in spastic children in our center
Padure L., Andrada M. (Romania)

P36 Complications following single event multilevel surgery rehabilitation in cerebral palsy
Sharan D., Padinjattethil Sasidharan A., Ranganathan R., Alva R. (India)

P37 Functional outcome of a new surgical approach in severe cerebral palsy (GMFCS IV and V).
Sharan D., Padinjattethil Sasidharan A., Ranganathan R., Alva R. (India)

P38 Outcome of single event multilevel lever arm restoration and anti spasticity surgery for CP
Sharan D., Padinjattethil Sasidharan A., Manikandan M., Ranganathan R., Alva R., Jose J., Paulina Ramachandran J. (India)

P39 What is the dose of therapy needed for functional benefit post semls in children with CP?
Tidemann A., Muirhead A., Russo R. (Australia)

P40 Massive heterotopic ossification after ilipsoas tendon lengthening: a case report
Maltinti M., Perazza S., Paolicelli P.B., Andreani L., Lisanti M. (Italy)

6 Posture, Non-ambulatory children management

P41 Postural approach in patients with cerebral palsy
Covarrubias L.B., Barron F., Moreno J.A., Ibarra M.C. (Mexico)

P42 Postural control during reaching in children with cerebral palsy: an electromyographic analysis
Izumi K., Ohata K., Huruya M., Shibuta S. (Japan)
P43 Web based home rehabilitation gaming system for balance training. preliminary study.  
*Kachmar O.O.*, Kozyavkin V.I. (Ukraine)

P44 Immediate effect of physiotherapy on sit-to-stand movement in children with spastic diplegia  
*Yonetsu R.*, Iwata A., Unase K., Shimizu J. (Japan)

P45 Evidence-based clinical recommendations for pediatric supported standing program dosing  
*Paleg G.* (USA)

P46 The effect of targeted training therapy on sitting balance and trunk control in motor disability  
*Butler P.*, Bew S., Thompson E., Ford L. (UK)

P47 Improving postural control in children with CNS damage  
*Stortini M.*, Pasquale A., Giannarelli P., Rosellini R., Castelli E. (Italy)

P48 Is the Nustep® a feasible piece of equipment for adults with cerebral palsy (GMFCS III & IV)?  

P49 Making of a moulded seat in joint collaboration of the physiotherapist and the orthopedic technician  
*Peñarrubia-Ruiz M.M.*, Rueda O., Rodríguez-González I. (Spain)

P50 Quantitative kinematic comparison between 2-points and 4-points seat belt for wheelchair in patients  
*Avellis M.*, Turconi A.C., Cimolin V., Piccinini L., Cazzaniga A., Galli M. (Italy)

P51 Clinical decision making for children at GMFCS levels 4 and 5  
*Paleg G.* (USA)

P52 The prevalence of constipation as reported by adults with cerebral palsy  
*Hornyak J.*, Poole M., Haapala H., Fox M., Hurvitz E. (USA)

7 Gait 1

P53 The modified Amsterdam gait classification for children with CP  
*Bonikowski M.*, Czernuszenko A. (Poland)

P54 Reliability of three-dimensional gait analysis in adults with spastic cerebral palsy  
*Maanum G.*, Opheim A., Jahnsen R. (Norway)

P55 Effect of rhythmic auditory stimulation on gait variability in children with cerebral palsy  
*Hashiguchi Y.*, Ohata K., Kanazawa H., Furuya M., Masaki M. (Japan)

P56 Is there a "hidden" effect to treadmill walking on step characteristics in children with CP?  
*Katz-Leurer M.*, Rotem H., Bar-Tov O. (Israel)

P57 Increasing ankle dorsiflexion may have other effects on gait in children with CP than expected  

P58 Can a turning inwards patella predict an excess of femoral anteversion during gait?  

P59 Lower limb torsional profile in children with spastic diplegia  

P60 Dysfunctional gait and physical therapy. interaction and possibility for change in movement quality  
*Thon T.* (Norway)
P61  Gait trainer use in child care setting  
   Paleg G. (USA)  

P62  The Effect of Training in an Interactive Standing Frame on Ankle Dorsiflexion and Function in CP  
   Curtis D., Mygind B., Bencke J. (Denmark)  

P63  Bone mineral status by quantitative ultrasound and vitamin D status in severe bilateral cerebral palsy: preliminary data  
   Baroncelli G., Bargagna S., Battini R., Bertelloni S., Brunori E., Paolicelli P.B., Cioni G. (Italy)  

10 Adults, Mental health, Family  

P64  Special support services for people with cerebral palsy in aging process  
   González Alonso Y., Santamaria Vázquez M. (Spain)  

P65  Capabilities of individuals with severe cerebral palsy in the aging process  
   González Alonso Y. (Spain)  

P66  Psychiatric disorders among children with cerebral palsy at school starting age  
   Bjorgaas H.M., Elgen I., Hysing M. (Norway)  

P67  Psychological problems in adolescents with and without cerebral palsy: parent vs adolescent report  
   McCahey E., Parkes J., McCusker C., McCullough N. (UK)  

P68  Cerebral palsy in the world of motion pictures  
   Musielak B., Joziak M., Musielak B., Chen P.J. (Poland)  

P69  The perception of masculinity in males diagnosed with cerebral palsy  
   Schofield H., Marx E., Johnston L., Guppy M. (Australia)  

P70  Maternal well-being and cerebral palsy: a population-based cohort study on very preterm infants  
   Caravale B., Di Lallo D., Ferrante P., Corchia C., Chiandotto V., Carnielli V., Da Frè M., Fertz C., Miniacci S., Rusconi F., Cuttini M. (Italy)  

P71  Parent coaching by pediatric pts: current practice and need for professional preparation  
   Cicirello N. (USA)  

P72  Family impacts of cerebral palsy in adolescence: protecting and worsening factors  
   Guyard A., Fauconnier J., Cans C. (France)  

P73  How can be impact mothers and fathers to hold children with cerebral palsy?  
   Kaya Kara O., Kara K., Turker D., Kerem Gunel M. (Turkey)  

P74  Quality of life of mothers who have children with cerebral palsy in different disability levels  
   Kaya Kara O., Kara K., Turker D., Kerem Gunel M. (Turkey)  

P75  Attitudes and family centered care provision among conductors in a conductive education center  
   Schenker R. (Israel)  

13 Impairment quantification and rehabilitation goals, CME  

P76  Transforming continuing medical education: negotiation of knowledge creation for implementation  
   Reynolds R., Seddon T. (Australia)  

P77  Communication function (CFCS), gross motor function (GMFCS) and manual function (MACS) in children  
P78 ICF-CY based project-program form for CP children in a neuropaediatric rehabilitation hospital Carraro E., De Polo G., Martinuzzi A. (Italy)

P79 ICF-CY based project/program form for CP patients in an outpatient rehabilitation centre De Polo G., Carraro E., Martinuzzi A. (Italy)

P80 Performance assessment of adults with CP in their daily context using the ICF Friscia M., Gimeno F. (Spain)

P81 How was the agreement between the original GMFCS and the new version GMFCS-E&R? Gudmundsson C., Nordmark E. (Sweden)

P82 Web-based family report is a reliable and cost-effective method for GMFCS report Rackauskaite G., Uldall P., Østergaard J. (Denmark)

P83 Environmental context and everyday functioning of children with cerebral palsy in ICF-CY categories Svekle I., Greitane A., Cibule L., Sakne A. (Latvia)

P84 Neuro-motor rehabilitation evaluation scale for the child with cerebral palsy - preliminary findings Zavaleanu M., Rosulescu E., Stanoiu C., Ilinca I. (Romania)

P85 Putting the functional mobility scale in children with CP into practice. Ackerman-Laufer S., Eisenstein E., Barak S., Guttman D., Brezner A. (Israel)

P86 Does various motor control components of children with cerebral palsy explain their mobility level? Eisenstein E., Barak S., Ackerman-Laufer S., Guttman D., Brezner A. (Israel)

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2 Registers, Service organization, Remote and isolated settings

P88 Development of a cerebral palsy population register: case study in New Zealand
Mackey A., O’Callaghan M., Stott S. (New Zealand)

P89 The burden of epilepsy in a national registry of 5-years-old children with cerebral palsy
Virella D., Calado E., Teresa F., Cadete A., Gouveia R., Alvarelhão J.J., Andrade M. (Portugal)

P90 Description of a cohort of children with cerebral palsy at a tertiary referral centre in South Africa
Petersen R., Redfern A., Wilmshurst J., Donald K. (South Africa)

P91 A web based motor & cognitive training program for children with cerebral palsy.
Rasmussen B., Kliim-Due M., Petersen L.Z. (Denmark)

P92 Jivadhara - hope for the hopeless
Eassy M., Peter W. (India)

P93 Cerebral palsy - an ayurvedic management
Venkataramana I., Namani K. (India)

P94 Providing specialist paediatric rehabilitation services to the top end: visiting clinic model
Baker F., Rice J., Russo R., Gibson S., Greenstein C., Williams B. (Australia)

P95 The effects of an intensive independent life skills therapy block upon adolescents with CP
Isaac D. (UK)

P96 Servicing a gap for children with CP: a hospital based ambulatory rehabilitation service model
Muirhead A., Spizzo M., Russo R. (Australia)

P97 A model of care unit:pediatric neuropsychomotor rehabilitation center „DR. N. Robanescu”,
Bucharest
Padure L., Morcov V., Andrade M. (Romania)

P98 Intensive rehabilitation: sustainability and effectiveness in the long run
Polovina S., Polovina A., Crnković T., Šotić S., Bulić D., Gjergja Juškiški R., Prološčić
Polovina T. (Croatia)

P99 Rehabilitation problem solving of children with cerebral palsy in Latvia
Greitane A., Cibule L. (Latvia)
5 Hips & Spine, Pain, ITB

P100 Intrathecal baclofen treatment in children with cerebral palsy across Europe
**Himmelmann K.**, Pählmán M., Andersen G.L., Vik T., Andrada M., Horridge K., Neubauer D., Arnaud C., De La Cruz J. (Sweden)

P101 The Australian Paediatric Intrathecal baclofen Therapy Audit Tool
**Kentish M.**, Stewart K., Hoare B., Hutana G., McCartney L. (Australia)

P102 Effectiveness of surgical interventions in hip problems in severe Cerebral Palsy

P103 Longitudinal Morphometric Analysis of the Hip in Cerebral Palsy using Computed Tomography
**Gose S.**, Sakai T., Shibata T., Sugamoto K. (Japan)

P104 Hip luxation in cerebral palsy – a European survey
**Himmelmann K.**, Pählmán M., Andersen G.L., Vik T., Andrada M da G., Horridge K., Arnaud C., De La Cruz J. (Sweden)

P105 NHS Grampian Cerebral Palsy hip monitoring protocol - our early experience
**Lee A.L.**, Crum J., Barker S., Duncan K. (UK)

P106 Barographic Measurement of Seating Position in Children with Cerebral Palsy Undergoing Hip Surgery
**Pedersen L.K.**, Rahbek O., Møller-Madsen B. (Denmark)

P107 Do Botulinum Toxin in ilio-psoas muscle prevent from hip luxation in young cerebral palsy children?
**Deleplanque B.**, Flurin V., Chateil F. (France)

P108 Validity of radiological methods assessing the proximal hip geometry in children with cerebral palsy
Pons C., Medee B., **Brochard S.** (France)

P109 Painful hip in children with chronic pain related to severe spasticity in course of CITB
**Armando M.**, Di Rosa G. (Italy)

P110 Hip Reconstruction is More Painful than Spine Fusion in Children with Cerebral Palsy
**Shrader M.W.**, Jones J., Nowlin M., Segal L.S. (USA)

P111 Parental care and osteopathic treatment: an early approach to exploit the potential
**Filisetti M.**, Occhi G., Bonomi S., Bergamaschi G., Cattarelli D. (Italy)

P112 REACTS: A Simple Scoring System to Stratify Risks for Patients with Cerebral Palsy and Scoliosis
**Shrader M.W.**, Nowlin M., Segal L.S. (USA)

8 Gait 2

P113 Orthopaedic evaluation and physiotherapy during eight years in a adolescent with Cerebral Palsy
**Peñarrubia-Ruiz M.deò M.**, Martin-Valero R., Rodríguez-González I. (Spain)

P114 Ankle-foot-orthoses in children with cerebral palsy – a population based study
**Gerd M.**, Jahnson R., Elkjaer S. (Norway)

P115 Effect of a new insole to reduce the spasticity for children with cerebral palsy
**Takahashi H.**, Okajima Y., Iguchi Y. (Japan)

P116 Influence of Kinesiology Taping on Treatment with Ankle-Foot Orthosis for Cerebral Palsy Children
**Akalan N.E.**, Kuchimov S., Boylu F.N., Aydinli N., Temelli Y. (Turkey)
P117 Gait development using Multilivello© orthoses in a little girl with ataxia. Cerioli M., Magri S. (Italy)

P118 Gait rehabilitation in children with congenital hemiparesis: the use of “jointly aid” Filippi G., Regonesi D. (Italy)

P119 The effects of botulinum toxin A on overall gait in adults with spastic cerebral palsy Maanum G., Stanghelle J., Jahnsen R. (Norway)


P121 Robotic Assisted Gait Training and Gait Pattern in children affected with Cerebral Palsy (CP) Piccinini L., Romei M., Maghini C., Turconi A.C. (Italy)

P122 EMG Activity during Robotic Assisted Gait Training: a case study Piccinini L., Romei M., Corbetta C., Beretta E., Turconi A.C. (Italy)


9 Physical activity

P124 Walking Stride Rates Associated with Mobility Related Participation in Cerebral Palsy Bjornson K., Stevenson R., Zhou C., Christakis D. (USA)

P125 Effect of training via a low-cost, commercially available game (Wii) in cerebral palsy Chiu H.-C., Ada L., Lee H.-M. (Taiwan)

P126 Physical activity in youth with cerebral palsy during therapeutic horseback riding: a pilot study. Gorter J.W., Grasse K., Timmons B., Obeid J. (Canada)

P127 Functional Electrical Stimulation (FES)-assisted cycling to improve fitness in children with CP. Lee S.C.K., Zarkou A., Tokay-Harrington A., Wright H., Zahradka N., Torres M., Marion S. (USA)


P129 Deficits in two versions of a continuous performance test in adolescents with cerebral palsy Lemay M., Lê T.T., Lamarre C. (Canada)

P130 Role of Halliwick technique in Rehabilitation to School-age Children with Cerebral Palsy Li C.Y., Liang Q. (China)

P131 Effects of Horseback Riding on Gross Motor Function and Spasticity in Children with Cerebral Palsy Lin Y.C., Lin I.L., Chen S.M., Kuan T.S., Hsieh P.C., Yen W.J. (Taiwan)

P132 A systematic review of habitual physical activity measures in young children with a motor disability Ofstedal S., Mitchell L.E., Davies P.S.W., Bell K.L., Ware R., Boyd R. (Australia)

P133 Swimming to break the vicious cycle of deconditioning in youth with Cerebral Palsy Declerck M., Daly D., Verheul M., Sanders R. (UK)

P134 Treatment in children with CP by Hyppoteraphy: experiences and results Onofri M.P., Tomadini P. (Italy)
11 QoL and participation

P135 School-based physical activity participation of children with cerebral palsy
  Johnston L., Johnson D., Truscott L., Colins E. (Australia)

P136 Cinderella: An Inclusive Ballet Program For Typical and Special Needs Children
  Shrader M.W., Shrader C., Atkinson C., Contreras A. (USA)

P137 CP-PARTICIPATE: Facilitators and barriers to education participation for young people with CP
  Johnston L., Stafford L., Smedley R. (Australia)

P138 CP-PARTICIPATE: Facilitators and barriers to community participation of young people with CP
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P139 Measuring Quality of Life of Finnish Children with Cerebral Palsy
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