



The 53rd
**ISCoS Annual
Scientific
Meeting**

2-4 September 2014
MECC, Maastricht, The Netherlands

Final Programme

A good start to CIC with LoFric Sense and LoFric Origo

Welcome to visit our stand no. 23



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Welcome

Dear Colleagues

The 53rd Annual Scientific Meeting of ISCoS in Maastricht promises to be another exciting event. The Organizing Committee from the Dutch Flemish Spinal Cord Society have been working for 3 years now to secure the venue and organize the programme for it to be as enjoyable and informative as possible.

The social side of the Programme – Welcome Reception and Gala Dinner – also promise to be very enjoyable. In addition Maastricht itself provides much for the accompanying person to enjoy as well as for registrants to explore before and after the ASM.

It is a very exciting period of development for ISCoS. There will be much information about our activities in association with WHO and of the various developments in spinal cord injury practice around the world.

The Conference will provide an ideal forum to hear of much new scientific research being conducted to improve the quality of life for people with spinal cord injuries. It will also showcase prevention and education programs. The breadth and depth of activities engaging the society and its members are now much greater than in the past. Change is occurring rapidly and in a more complex situation where there are many opportunities for the advancement of spinal cord care.

Most importantly the Annual Scientific Meeting/Annual General Meeting is an opportunity for those working in the field of spinal cord injuries to make new friendships, renew old friendships, discuss experiences, form networks and collaborations and have an enjoyable time. I have no doubt that you will enjoy the meeting and the time with fellow SCI professionals and consumers.

Doug Brown

President
ISCoS



Welcome

Dear all

It is a real pleasure to look forward to the 2014 ISCoS annual scientific meeting hosted by the Flemish-Dutch Affiliated Society.

The 'Low Countries', The Netherlands and Belgium have been very active in spinal cord lesion management for decades. Belgian and Dutch physicians were among the founding fathers of the then International Medical Society of Paraplegia. Afterwards many have been and are valid members of our group.



The regions have seen continuous further development of well run specific SCI Centres where comprehensive management is applied following the best of ISCoS principles. That our international community now comes together in what is also my part of the world is really exiting. The local organizing committee is guarantee for a friendly and warm welcome to all participants in the best of our tradition. The scientific committee will have put together a program both interesting and high level.

Jean Jacques Wyndaele

Editor Spinal Cord

President Elect of ISCoS



Welcome

Dear friends and colleagues

The Local Organising Committee and the Dutch Flemish Spinal Cord Society (DuFSCoS) are honoured to welcome delegates to the 53rd Annual Scientific Meeting of the International Spinal Cord Society (ISCoS 2014). Since hosting the IMSoP scientific meetings in Beekbergen in 1980 and in Gent in 1993 it is the third time that The Netherlands or Belgium has hosted this important conference.



DuFSCoS is the affiliated organisation of ISCoS with multidisciplinary professionals from the 11 SCI centres in Flemish Belgium and The Netherlands.

We expect colleagues from all relevant disciplines from all over the world to present and discuss clinical and scientific issues.

The conference themes for this meeting are:

- Orthotics (including FES) in SCI.
- Ageing in SCI.
- Physical capacity and fitness in SCI.
- Sexuality.
- Consumer rights.

Besides the themes above there will be free paper sessions, poster presentations and symposia covering many other topics.

We look forward to welcoming you with open arms to engage in and contribute to the high quality scientific exchange at ISCoS 2014. We also promise an enjoyable social program where you can meet old friends and make new ones from all over the world in an informal and relaxed environment.

We look forward to meeting you in Maastricht in 2014.

Dirk van Kuppevelt,
Chair LOC

Charlotte Kiekens,
Vice-chair LOC

Committees and Organisers

The Officers of ISCoS

President: A/Prof D J Brown, Australia

Past President: Prof Fin Biering-Sørensen, Denmark

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Honorary Secretary: Dr S Katoh, Japan

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Education: A/Prof. L. Harvey, Australia

Nominations: A/Prof D J Brown, Australia

Prevention: Dr. H. S. Chhabra, India

Scientific: Dr. S. Charlifue, United States of America



ISCoS Affiliated Societies

Affiliated Societies representatives:

AFIGAP Dr. B. Perrouin-Verbe, France

APS

ASIA Dr. L. Vogel, United States of America

ANZSCos Dr. S. Urquuhart, Australia

ASCoN Dr. F. Hoque, Bangladesh

DMGP Dr. Y-B Kalke, Germany

DUFSCoS Mrs. Helma Bongers-Janssen, The Netherlands

JASCoL Dr. S. Katoh, Japan

KoSCoS DR. H. Y. Ko, Korea

NoSCOS Dr. Ann-Gret Karlsson, Sweden

RoSCoS Dr. Gelu Onose, Romania

SASCA Dr. F. Theron, South Africa

SCI UK Mr. Martin McClelland, United Kingdom

SEP Dr. Jesus Benito, Spain

SLAP Dr. F. Montero, Costa Rica

SoMIPAR Dr. G. Scivoletto, Italy

Spinal Cord Society – Indian Chapter Dr. H.S. Chhabra, India

TrSCD Dr. Müfit Akyüz, Turkey

Meeting Organising Committee

53rd Annual Scientific Meeting Local Organising Committee

Dr. Dirk van Kuppevelt, Chair of LOC
Dr. Govert Snoek, President, DUFSCoS
Dr. Charlotte Kiekens, Vice-chair of LOC
Prof. Marcel Post, Chair of Scientific Programme Committee
Dr. Anand Nene
Dr. Christof Smit
Dr. Willemijn Faber
Dr. Catja Dijkstra
Mrs. Helma Bongers-Janssen
Dr. Casper van Koppenhagen

Scientific Committee

Dr. Susan Charlifue (Chair), United States of America
Dr. Sergio Aito, Italy
Assoc. Prof. Dr. Müfit Akyüz, Turkey
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Mr. Pradeep Thumbikat, United Kingdom
Dr. Dirk van Kuppevelt, The Netherlands
Prof. Jean Jacques Wyndaele, Belgium
Dr. Keith Tansey, United States of America
Dr. C. Hulting, Sweden
Dr Serge Rossignol, Canada



ISCoS Past Presidents

Founder and first president

Prof. Sir Ludwig Guttman, CBE, FRS	1961-70

Presidents of ISCoS

Dr. H. Talbot	United States of America	1970-73
Dr. A. Tricot	Belgium	1973-77
Prof. V. Paeslack	Germany	1977-80
Sir G. Bedbrook	Australia	1980-84
Prof. A Rossier	Switzerland	1984-88
Dr. E. Carter	United States of America	1988-92
Dr. P. Dollfus	France	1992-96
Dr. H. L. Frankel	United Kingdom	1996-00
Prof. T. Ikata	Japan	2000-04
Prof. W. Donovan	United States of America	2004-08
Mr. W. El-Masri	United Kingdom	2008-10
Prof. F. Biering-Sørensen	Denmark	2010-12
A/Prof. D.J. Brown	Australia	2012-14

ISCoS Society Medal Holders

1975/1976:	Sir Ludwig GUTTMANN (UK) (Deceased) Dr Ernest BORS (USA) (Deceased)
1978:	Dr L MICHAELIS (UK) (Deceased) Sir George BEDBROOK (Australia) (Deceased)
1979:	Dr Marc MAURY (France)(Deceased)
1980:	Dr J S YOUNG (USA) (Deceased)
1981:	Dr A G HARDY (UK) (Deceased)
1982:	Prof Fred MEINECKE (Germany)(Deceased)
1983:	Prof Hans FRANKEL (UK)
1984:	Dr Y NAKAMURA (Japan) (Deceased)
1985:	Dr M WEISS (Poland) (Posthumously) Mr Phillip HARRIS (UK) (Deceased)
1986:	Dr H HAHN (USA) (Deceased)
1987:	Professor Alain ROSSIER (Switzerland) (Deceased)
1988:	Dr Al JOUSSE (Canada) (Deceased)
1989:	Mr J COSBIE ROSS (UK) (Deceased)
1990:	Dr Paul DOLLFUS (France)
1991:	Dr Ed CARTER (USA)
1992:	Dr A KEY (South Africa) (Deceased)
1993:	Air Marshal (Rtd) Amar CHAHAL (India)





1994:	Mr Isaac NUSEIBEH (UK)
1995:	Dr Avrom E COMARR (USA) (Deceased)
1996:	Dr Guido ZÄCH (Switzerland)
1997:	Prof Helmut MADERSBACHER (Austria)
1998:	Prof Takaaki IKATA (Japan)
1999:	Dr William GEISLER (Canada)
2000:	Prof John YEO (Australia)
2001:	Prof J J WYNDAELE (Belgium)
2002:	Mr W EL MASRI (UK)
2003:	Prof Giles BRINDLEY (UK)
2004:	Prof William DONOVAN (USA)
2005:	Dr Ray SHROSBREE (South Africa)
2006:	Dr Lee ILLIS (UK)
2007:	Dr Fin BIERING-SØRENSEN (Denmark)
2008:	Dr J DITUNNO (USA)
2009:	A/Prof D J BROWN (Australia) Dr P MEYER (USA)
2010:	A/Prof A KOVINDHA (Thailand) Dr I PERKASH (USA)
2011:	Marianne BINT (UK) Dr E IWATSUBO (Japan)

2012: Dr S AITO (Italy)

2013: Dr H S CHHABRA (India)



Sir Ludwig Guttman Lecture

The Sir Ludwig Guttman Lecture was established by the International Medical Society of Paraplegia, now the International Spinal Cord Society, to recognize the pioneering work and lifelong contribution of Sir Ludwig Guttman, the originator of modern multidisciplinary spinal cord care.

He was the first President of the International Medical Society of Paraplegia at its inception in 1961, the first Editor of the journal of the Society, Paraplegia, now Spinal Cord.

He was the inspiration and Founder of what is currently the Paralympics. In the mid 1940s, while treating young veterans at the Stoke Mandeville Spinal Injuries Unit in England, Dr Guttman introduced sport and exercise as mandatory activities for the patients, thus rebelling against the widespread nihilism with which the rehabilitative potential of spinal cord injuries was regarded. From the first Stoke Mandeville Games for the paralysed that Dr Guttman organised for 16 archers in July of 1948, the athletic movement for individuals with spinal cord injuries has grown tremendously.

He retired from clinical work in 1966 but continued his involvement with sport.

He died in 1980 leaving us his message that “spinal cord injured patients should be transferred as soon as possible to a specialized spinal injuries unit”.

Sir Ludwig Guttman's tireless effort and vision touched thousands of lives around the world – a legacy to be remembered and honoured by this Lecture.

Lectures given to date:

- 1981 Sir George Bedbrook, Perth, Australia, President of IMSOP 1980-84
- 1993 William C Degroat, Department of Pharmacology, University of Pittsburgh, USA: 'Neuropharmacology of the Autonomic Nervous System'
- 2002 James Fawcett, Cambridge University Centre for Brain Repair, United Kingdom. 'Inhibition of Axonal Regeneration at the Glial Scar and Strategies to Overcome this Obstacle in Order to Promote Functional Recovery After Spinal Cord Injury'
- 2004 Prof B Kakulas, The Australian Neuromuscular Research Institute, Queen Elizabeth II Medical Centre, Perth, Australia
'Neuropathology: The Foundation for New Treatments in Spinal Cord Injury'

- 2005 Prof Helmut Madersbacher, Neuro-Urology Unit, Landeskrankenhaus- Univ. Kliniken Innsbruck, 35, Anichstrasse, A-6020 Innsbruck, Austria
'Progress in Neuro-Urology'
- 2006 Dr Michael J DeVivo, University of Alabama at Birmingham, USA
'Trends in SCI Rehabilitation Outcomes: 1973-2005'
- 2007 Dr Kristjan T Ragnarsson, Mount Sinai School of Medicine, New York, NY 10029-6574, USA
'Functional Electrical and Therapeutic Stimulation in SCI: Current Use and Future Direction'
- 2008 Ass Prof Philip Siddall, University of Sydney Pain Management Research Institute, Royal North Shore Hospital, Sydney, Australia
'Neuropathic Pain in Spinal Cord Injury'
- 2009 Dr John F Ditunno, Thomas Jefferson University, Philadelphia, USA
'Outcome Measures: Evolution in Clinical Trials of Neurological/Functional Recovery in Spinal Cord Injury'
- 2010 Prof W H Donovan, Phys Med & Rehab, Univ of Texas Health Science Centre-Houston, TIRR, 1333 Moursund Ave, Huston, Texas 77030, USA
'Ethics, Healthcare and Spinal Cord Injury: Research, Practice and Finance'
- 2011 Dr Daniel P Lammertse, Craig Hospital, 3425 S Clarkson St., Englewood, CO 80110-2811, USA
'Clinical Trials in Spinal Cord Injury: Lessons Learned on the Path to Translation'
- 2012 Prof H L Frankel, OBE, NSIC, Stoke Mandeville Hospital, Aylesbury, Bucks, UK
'The Contribution of Stoke Mandeville Hospital to Spinal Cord Injuries'
- 2013 Armin Curt, MD, Spinal Cord Injury Center, University of Zurich, Switzerland
'Hope, Hype and Neuroscience'





Sir Ludwig Guttman lecture

Interventions to improve the quality of living with spinal cord injury

Prof. Marcel Post, Ph.D.



Marcel W.M. Post, PhD is professor in spinal cord injury rehabilitation at the Department of Rehabilitation Medicine of the University Medical Center Groningen and Senior Researcher at De Hoogstraat Rehabilitation, Utrecht, The Netherlands.

Marcel Post studied psychology and graduated in 1985. His doctoral work at the Utrecht University focused on health status and life satisfaction after spinal cord injury (Dissertation 1997). Professor Post's current research interests include rehabilitation outcomes, participation, quality of life, psychological factors, and caregiver burden in persons with spinal cord injury or stroke. He has published on instrument development, observational and intervention studies in these areas. He is author or co-author of more than 200 articles in peer-reviewed journals (H-Index 36).

Marcel Post is Section Editor of the Archives of Physical Medicine and Rehabilitation, Associate Editor of Spinal Cord and member of the editorial board of Topics of Spinal Cord Injury Rehabilitation. He is member of the Scientific Committee of the International Spinal Cord Society and the Executive Committee of the ISCoS/ASIA Data Sets project in which he co-chaired the development of the datasets for activities and participation, and quality of life. In 2010 Dr. Post received the Van Hoytema award from the Dutch Association for Physical Medicine and Rehabilitation (VRA) for his contribution to rehabilitation medicine.

The Guttman Lecture will be held on Tuesday, 2nd September, 2014 at 09:00 in the Auditorium.

Acknowledgements

The Organising Committee gratefully acknowledges support from our industry supporters

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Wellspect HealthCare, the name behind the family of LoFric catheters, is a leading global provider of innovative urological and surgical solutions. We passionately strive to make a real difference every day to everyone who needs our products and services. That is why every solution bearing the Wellspect HealthCare name carries with it the trust and dependability built on more than 30 years of life-improving performance.



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Today, our business includes ostomy care, urology and continence care and wound and skin care. But our way of doing business still follows Elise's example: we listen, we learn and we respond.



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Indego®, the advanced robotic exoskeleton from Parker Hannifin Corporation, enables spinal cord injury patients to stand and walk. It weighs only 12 kg and can be worn in a wheelchair. The proprietary control interface allows for smooth operation in harmony with natural human movement, guided intuitively by postural cues.



Meeting Information

Dates

The 53rd Annual Scientific Meeting of the International Spinal Cord Society will take place from Monday 1st September to Thursday 4th September 2014.

Venue

MECC Maastricht

Address: Forum 100, 6229 GV Maastricht, The Netherlands

Telephone: +31 (0)43 38 38 383

Email: info@mecc.nl

<http://www.mecc.nl/>

Registration and Meeting Secretariat

Registration and the Meeting Secretariat are located in the Trajectum Hall on the Level 1 of the MECC and will be open during the following hours

Monday 1st September	07:30 – 19:00
Tuesday 2nd September	07:30 – 19:00
Wednesday 3rd September	07:30 – 18:00
Thursday 4th September	08:00 – 17:00

Abstract Book

Abstracts will be available in PDF format on a pen-drive which will be distributed together with the congress bag. There is no printed abstract book. The full programme will be distributed with the Congress bag and will be available on the Congress App.

Accreditation

The Netherlands Society of Physical and Rehabilitation Medicine accreditation has credited the conference:

In total 16 points

September 2nd = 6 points

September 3rd = 6 points

September 4th = 4 points

4 extra points will be granted for participants to one of the preconference workshops on September 1st.

RIZIV (National Institute for Sickness and Disability Insurance) accreditation for Belgium has been applied for.

Badges

Please wear your registration badge at all times.

All participants are required to wear identification badges when attending sessions, social events and when entering the exhibition. If you lose your badge, please go to the registration desk where a new badge will be made for you.

Car Parking

The MECC has over 2,000 parking spaces, 1,000 of which are indoors. All parking spaces are within walking distance of the main entrance. Daily rate for parking is € 9.50

Certificates of Attendance

A Certificate of Attendance will be emailed to all registered delegates after the Meeting.

Cloakroom and Left Luggage Facilities

A Cloakroom is situated in the Trajectum Hall at the MECC and will be open throughout the conference.

Chairpersons & Speakers

Please ensure that you are available in your presentation room at least ten minutes before the start of the session. It is recommended that all Speakers visit the Speakers' Ready Room to confirm audio visual requirements at least 2 hours prior to the start of the session. The Speakers' Ready Room is located in Room 0.8 (Rome) and is clearly signposted.

The Speakers' Ready Room will be open during the following hours :

Tuesday 2nd September 2014	07:30 – 18:40
Wednesday 3rd September 2014	07:30 – 17:40
Thursday 4th September 2014	07:30 – 16:00

City Information

In your delegate bags you will receive a city map and guide.

City Pass

All delegates will be granted free travel on the city buses in Maastricht by showing their conference badge when boarding.





Credit Cards

Commonly accepted credit cards in hotels, restaurants and stores are American Express, Visa, MasterCard and Diners. Accepted cards for delegate registration are Visa and MasterCard only.

Electricity

The voltage in The Netherlands is 220-240V.

Exhibition Opening Hours

An exhibition of related products, services and technologies is being held in conjunction with the Meeting. The exhibition is located in the Expo Foyer. A full list of exhibitors can be found on Page 118

The exhibition opening hours are as follows:

Monday 1st September	18.45 – 20.00	Exhibition Open and Welcome Reception
Tuesday 2nd September	10.00 – 16.00	Exhibition Open
Wednesday 3rd September	10.00 – 16.00	Exhibition Open
Thursday 4th September	10.00 – 16.00	Exhibition Open
Thursday 4th September	16.00 – 22.00	Exhibition Break Down

The Welcome Reception will be held in the Exhibition / Poster Area on Monday, 1st September following the Opening Ceremony

Insurance Policy

The organisers cannot be responsible for medical, travel or personal claims. Participants are strongly advised to take out an insurance policy covering three areas: health and accident, loss of luggage and cancellation (travel and registration).

Internet Facilities

Complimentary WiFi is available throughout the MECC.

This is kindly sponsored by  **Coloplast**

Please visit the Coloplast stand in the Expo Foyer, the Exhibition Hall to collect the WiFi password.

Internet Area and Print Centre

There will be an Internet Area and Print Centre located in the Expo Foyer, the Exhibition Hall. This is kindly sponsored by  **Wellspect**
HEALTHCARE

Language

English is the official language of the Meeting

Lunches and Refreshments

Tea, coffee and lunch will be served to all registered participants in the Exhibition / Poster Area during the official breaks.

Mail/Messages/Medical Assistance/Lost and Found

Please go to the Registration Desk located in the Trajectum Hall for any assistance

Meeting Bags

Kindly sponsored by  **Medtronic**

Mobile Phones

It should be noted that mobile phones may be used for connections to the Congress App, social media posting, website etc. but must be switched to silent when delegates are in session halls. The twitter hash tag is #ISCoS2014.

Mobile Application

ISCoS 2014 will have a mobile device application enabling you to access general, scientific programme, exhibition and other useful information relating to the congress. The Mobile App name is ISCoS 2014 and will be available to download from August 30th 2014 onto your personal mobile device via the Apple I store, Android Store or Windows Store.

The Mobile Application is kindly sponsored by



Posters

Posters will be displayed in the Exhibition / Poster Area from 2nd to 4th September. Presenting authors are requested to stand by their posters as per the allocated times below.

Session 1. For Poster Viewing Tuesday 2nd September from 15:05 to 16:00

Posters should be mounted on your designated board by 09.00 on Tuesday 2nd September.

Please leave your poster displayed on its board until the morning coffee break on September 3rd. All posters should be removed between 11:35 and 12:00 on Wednesday 3rd September. If your poster has not been collected after this time, it will be disposed of on site.



Session 2. For Poster Viewing Wednesday 3rd September from 15:20 to 16:10

Posters should be mounted on your designated board by 12.30 on Wednesday 3rd September. Please leave your poster displayed on its board until the end of the conference on Thursday 4th September. If your poster has not been collected after this time, it will be disposed of on site.

All poster presenters should please ensure that they mount their poster by the correct poster number on the correct day. Poster presenters should refer to the instructions which were sent by email for their board number. Delegates are encouraged to view the posters during the official tea/coffee and lunch breaks.

Poster sessions are kindly sponsored by



Programme Changes

The organisers cannot assume responsibility for any change in the programme due to unforeseen or external circumstances.

Social Programme

Monday 1st September

17.45-18.45 Opening Ceremony, a festive and musical opening of the congress.

18.45-20.00 Official opening of exhibition followed by the Welcome Reception. ISCoS and DuFcos welcome you to Maastricht for what we hope will be a fabulous meeting from both a scientific and social standpoint. We start by inviting you to join us at the Welcome Reception. We hope it will be an opportunity to meet old friends and to make new ones.

Wednesday 3rd September

19.00-23.00 Gala Dinner at the “La Butte aux Bois”, Lanaken, Belgium

We are planning a great event with excellent food and wine. We promise short speeches, dancing and entertainment. After a welcome from the Maastricht Conservatorium Musicians, you will dance to the music of the cover-band “Hype”

Dress code: Cocktail dresses and Lounge Suits

Transport will be available



Programme at a Glance

Programme at a Glance

Tuesday, 02 September, 2014

	AUDITORIUM	ROOM 0.4 (Brussels)	ROOM 0.5 (Paris)	ROOM 0.2 (Berlin/ Cop.)	ROOM 2.1 (Colorado)	Expo Foyer
08:30	Welcome					
09:00	Sir Ludwig Guttmann Lecture Interventions to improve the quality of living with spinal cord injury Prof. Marcel Post, Ph.D					
10:00	Coffee break and visit the Exhibition					
10:30	Oral Session 1: Ageing	Oral Session 2: Orthotics	Oral Session 3. Free Communications: Urology	Workshop 1: ESCIF SCI consumer workshop: Consumer initiatives: pushing the spinal cord injury (SCI) agenda forward		
12:00	Lunch and visit the Exhibition					
12:00		Satellite Symposium: Medtronic 				
12:40						Mini Satellite Symposium: Wellspect Healthcare (Exhibition / Poster Area) 
13:00	Keynote Lecture 1: Aging and SCI: Focus on the Positives. Dr Susan Charlifue, PhD, FACRM					

13:35	Oral Session 4. Free Communications: Basic Science/ Clinical Trials	Workshop 3: Comprehensive interprofessional approach to management of pediatric spinal cord injury	Workshop 4: (Surgical) management of upper extremity in tetraplegia – state of the art	Oral Session 5: Consumer Rights	Workshop 2 A: Analyzing factors influencing decision making in management of thoraco lumbar spinal injuries and proposing suitable treatment algorithms	
15:05	Tea break with poster viewing. Poster Session 1					
16:00	Keynote Lecture 2: Fitness and Physical Capacity after SCI: A Marriage Made in Heaven? Prof Mark S. Nash, Ph.D., FACSM					
16:35	Keynote Lecture 3: Consumer initiatives in the comprehensive management of spinal cord injury: best practice and policy. Dr Jane Horsewell					
17:10	Workshop 5: End of life decisions in spinal cord injury: a consumer right to have a choice?	Oral Session 6: Sexuality	Oral Session 7: Physical Capacity & Fitness	Oral Session 8. Free Communications: General	Workshop 2 B: Analyzing factors influencing decision making in management of sub axial cervical spine injuries and proposing suitable treatment algorithms	
18:40	End of program for day					



Programme at a Glance

Wednesday, 03 September, 2014

	AUDITORIUM	ROOM 0.4 (Brussels)	ROOM 0.5 (Paris)	ROOM 0.2 (Berlin/Cop.)
08:00				Sponsored Breakfast Session Stewarts Law stewartslaw
09:00	Keynote Lecture 4: Physiological aspects of ageing with spinal cord injury Prof Maria Hopman Ph.D., M.D.			
09:35	Oral Session 9: Physical Capacity/Fitness	Oral Session 10. Free Communications: GU/GI	Workshop 6: Challenges in defining functional outcomes and Minimal Clinically Important Differences (MCIDs) for distinct clinical trial populations	Prevention Symposium A: Prevention of SCI, what works & what doesn't
11:05	Coffee break and visit the Exhibition			
11:35	Workshop 7: Symposium on sexuality and spinal cord injury: the state of the art	Oral Session 11. Free Communications: Basic Science/Clinical Trials	Workshop 8: Implementing the international spinal cord injury data sets through web- based registries: experiences from the Netherlands and Victoria, Australia	Prevention Symposium B:Prevention of SCI, what works & what doesn't
13:05	Lunch and visit the Exhibition			
13:05		Satellite Symposia: Wellspect Wellspect HEALTHCARE		
14:05	ISRT Lecture: Preclinical strategies for spinal cord injuries: From Diet to Cell transplantation. Dr. Wolfram Tetzlaff			
14:50	Keynote Lecture 5: The Current Status of Powered Exoskeletons Prof Ed Lemaire, PhD			
15:20	Tea break with poster viewing. Poster Session 2			
16:10	ISCOS AGM			
17:40	End of program for day			
19:00	Gala Dinner			

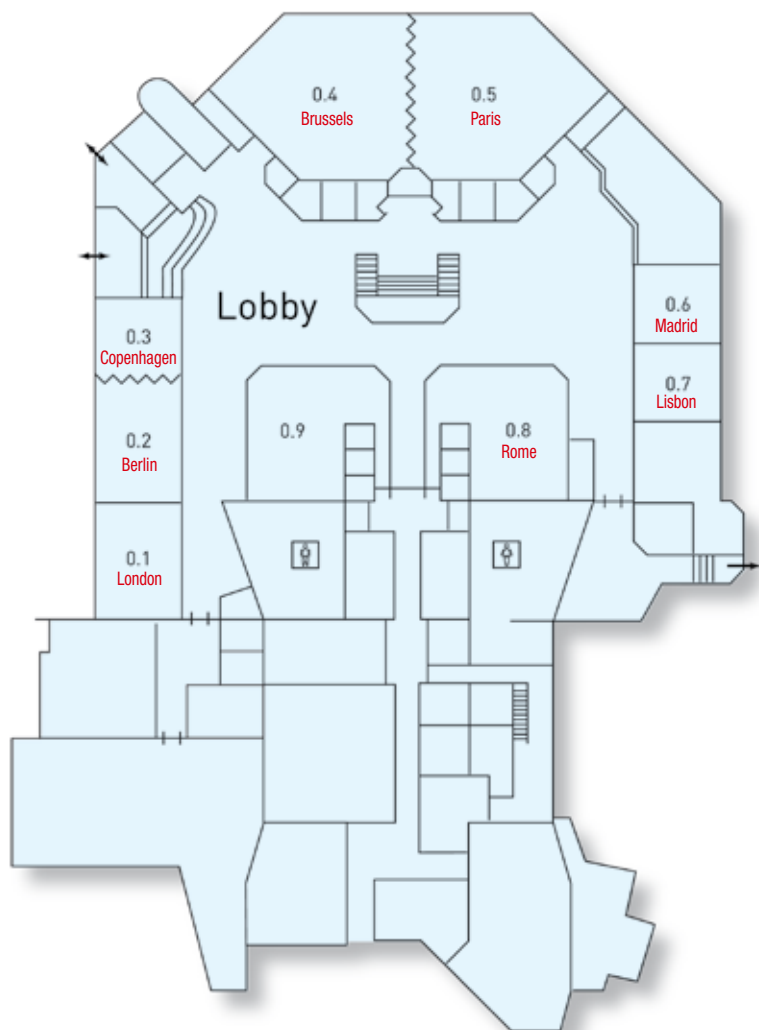
Programme at a Glance

Thursday, 04 September, 2014

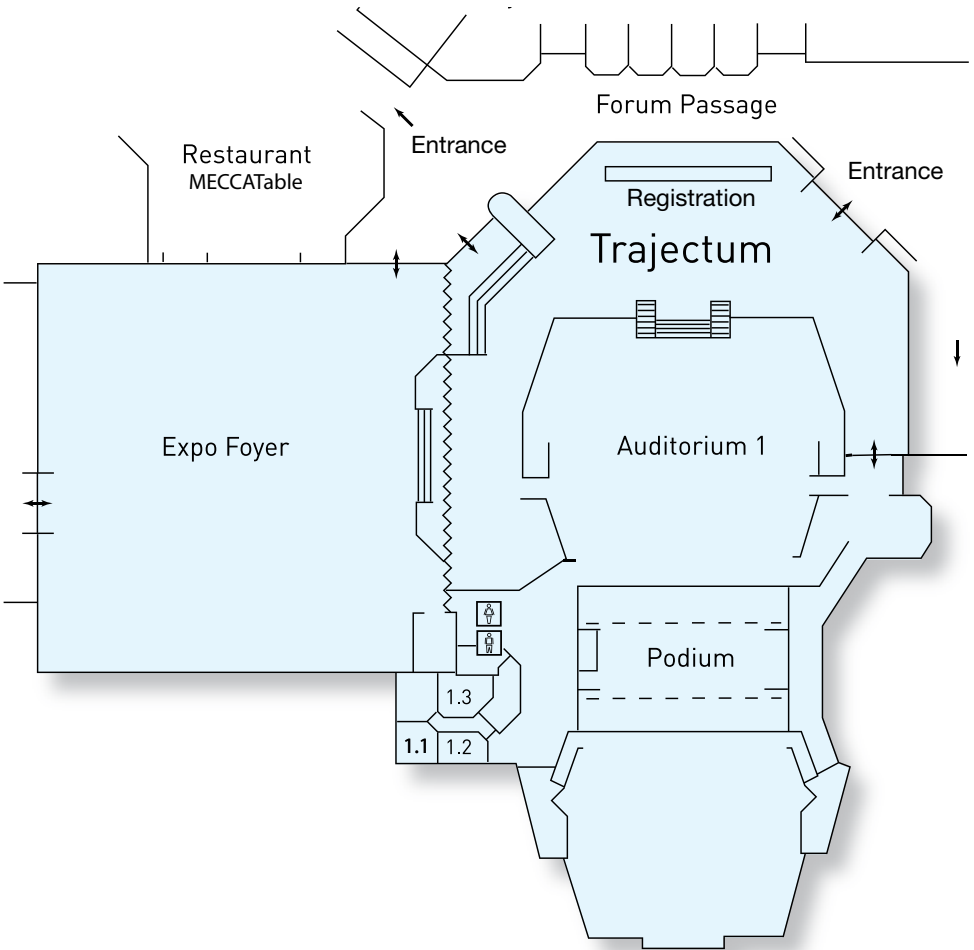
	AUDITORIUM	ROOM 0.4 (Brussels)	ROOM 0.5 (Paris)	ROOM 0.2 (Berlin/Cop.)
07:30				Breakfast session: International SCI Research: What helps and hinders consumer participation in trials and how do we tip the scales toward enhanced enrolment?
09:00	Keynote Lecture 6: Sexual adjustment following spinal cord Injury: What research has brought us, what clinical practice should promise? – Dr Frédérique Courtois			
09:35	Workshop 9: Sexual Health after SCI – contemporary practice standards	Oral Session 12: Ageing	Oral Session 13. Free Communications: Measurements/health issues	Oral Session 14: Free Communications: Systems
11:05	Coffee break and visit the Exhibition			
11:35	Oral Session 15: Physical Capacity/Fitness	Workshop 10: New measurement techniques to improve the clinical care of individuals with SCI	Workshop 11: The world health organization's (WHO) international perspectives on spinal cord Injury (IPSCI) report: implications	Oral Session 16. Free Communications: General health issues
13:05	Lunch and visit the Exhibition			
13:05		Sponsored Lunchtime Satellite Symposium: Coloplast  Coloplast		
14:05	Keynote Lecture 7: Optimizing Wheeled Mobility, does it matter? – Prof. Luc Van Der Woude, PhD			
14:40	Oral Session 17. Free Communications: Basic Science/Clinical Trials	Oral Session 18. Free Communications: Spine Surgery	Workshop 12: Pregnancy following spinal cord injury	Workshop 13: Improving quality of life for people with spinal cord injury and their families: a comparison of different approaches to peer mentoring
16:10	Closing Ceremony			



Level 0



Level 1



Industry Sponsored Sessions

Tuesday, 02 September, 2014



Medtronic

- 12:00-13:00   **Medtronic Satellite Symposium**   **Room 0.4 (Brussels)**
Spasticity management: How Intrathecal Baclofen Therapy (ITB) may help transform lives
- Chair: Dr Carlote Kiekens, UZ Leuven, Belgium
- 12:00   **What are today's barriers and solutions to treat patients with ITB?**
Dr. Jesus Benito, Guttman Institut, Spain
- 12:15   **The position of ITB in today's treatment offering for SCI patients suffering from severe spasticity**
Dr. Michael R. Yochelson, MedStar National Rehabilitation Network, USA
- 12:30   **How a patient's life can be transformed with ITB: from I WISH to I CAN**
Julie Matthews, Staffordshire and Stoke-on-Trent Partnership NHS Trust, UK
- 12.45   **Q&A**

Urinary tract infections and catheter reuse: Lessons from the London 2012 Paralympics Games

Speaker: Prof. Andrei Krassioukov

This Mini Symposium will demonstrate that catheter re-use is intimately linked to UTI frequency and provides novel insight on bladder function and management in elite athletes with SCI. Management of urinary bladder dysfunction is among the highest of priorities for individuals with spinal cord injury. Anticholinergic drugs and clean intermittent catheterization (CIC) is recommended as a first-line management. Nevertheless urinary tract infections (UTIs) are still common among these individuals, and could negatively impact their health, quality of life (QOL), and performance. A study was conducted during the London 2012 Paralympic games and 2013 Paracycling World Championships to explore bladder management and frequency of UTIs among elite athletes, the lecture will explore the results.

Dr. Andrei Krassioukov is a clinician scientist who obtained his medical degree from Volgograd State Medical School, Russia. He is presently a Professor of Physical Medicine & Rehabilitation at the University of British Columbia, Vancouver, Canada. He is the chair of Autonomic Standards Committee for ASIA and ISCoS, leading the international initiative on development of autonomic assessment of individuals with SCI.



Industry Sponsored Sessions

Wednesday, 03 September, 2014

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stewartslaw

08:00-09:00 **Sponsored Breakfast Session Stewarts Law Room 0.2 (Berlin/Cop)**
Acute treatment, repatriation, rehabilitation and compensation for those injured abroad

Chair: Gerard McDermott QC

Acute treatment of abroad patients

SPEAKER 1: TBC

Medical repatriation

Dr Neil McGuire

Rehabilitation of patients injured abroad

Brian Gardner

Case studies considering the legal issues arising from sustaining SCI abroad

Julian Chamberlayne, Stewarts Law

Q&A

13:05-14:05 **Wellspect HealthCare Satellite Symposium** **Room 0.4 (Brussels)**
Below the belt. Towards functional recovery – the triad of bladder, bowel and sex

Chair: Prof. Jens Sønksen, Department of Urology, Herlev Hospital, University of Copenhagen, Denmark

Speakers:

Dr. Anton Emmanuel, University College Hospital; National Hospital for Neurology and Neurosurgery, London, United Kingdom.

Prof. Giulio Del Popolo, Department of Neuro-Urology, Careggi University Hospital, Florence, Italy



Industry Sponsored Sessions

Thursday, 04 September, 2014



Coloplast

13:05-14:05   **Coloplast Satellite Symposium**   **Room 0.4 (Brussels)**
Honoring sexuality in women with SCI

Chair: Stacy Elliott, MD

13:05-13:10   Welcome from the Chair, Stacy Elliott, MD

13:10-13:35   **Sexual Rehabilitation after SCI: What matters and how to help**
Stacy Elliott, MD

13:35-14:00   **Urinary incontinence in neurogenic patients: Causes, solutions**
and specific things to think about
John Heesakkers, MD PhD

14:00-14:05   Concluding remarks, Stacy Elliott, MD

SpeediCath® Compact
Eve

This is not
a mascara ...

... it's our most stylish
and discreet catheter yet

Introducing SpeediCath® Compact Eve

SpeediCath Compact Eve is a new female catheter that is a perfect blend of form and function.

- Triangular shape for easy handling and better grip
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- Remains sterile when connecting a urine bag

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Visit the Coloplast booth to experience the new SpeediCath Compact Eve.





Pre-conference Sessions

08.30 – 09.00 Registration, coffee

09.00 – 09.10 **Welcome and opening remarks**

09.10 – 10.35 **Round 1. SCI nursing in daily practice**

SCI nursing around the world – The Netherlands.

J. Beekman, The Netherlands

Autonomic Dysreflexia.

E. Wallace, Ireland

CES, a nurse led clinic.

P. Muter, United Kingdom

Neuro bowel dysfunction – beyond conservative management.

M. Coggrave, United Kingdom

10.35 – 11.05 Coffee break

11.05 – 12.30 **Round 2. Nursing research and developing protocols and guidelines**

SCI nursing around the World – Haïti.

F. Stephenson, United Kingdom

Developing guideline SCI continence nurses NL.

J. Martens, The Netherlands

EAUN guideline Intermittent Catheterisation.

V. Geng, Germany

Using best evidence in SCI nursing practice.

M. Coggrave, United Kingdom

12.30 – 13.30 Lunch break

13.30 – 15.15 **Round 3. Post discharge care**

SCI nursing around the World – Lebanon.

G. Stensrod, Norway

Acute outreach service.

D. Green, United Kingdom

Home treatment of pressure ulcer in SCI patients.

E. Middelweerd, The Netherlands

The use of telehealth in individuals with SCI.

F. Sarhan, United Kingdom

Patient education concept.

C. Schwager, Switzerland

15.15 – 15.45 Tea

15.45 – 17.00 **Round 4. Developing the position of the SCI nurse.
Nursing issues in less developed countries**

SCI nurse website & elearnsoci.org.

D. Green, United Kingdom

**SCI nursing problems and challenges in less developed countries
– South Africa.**

H. Willemse, South Africa

17.00 – 17.15 **Award ceremony for best poster presentations**

17.15 – 17.30 **Closing remarks**



10:30-11:00 Registration

11.00-11.10 **Opening by chairman**
Prof. Marcel Post

11.10-11.30 **Presentation of the Dutch and Flemish SCI rehabilitation**
Dr. Christel van Leeuwen, The Netherlands

11.30-12.15 **Self-efficacy**
Prof. James Middleton, Australia

12.20-13.20 Lunch

13.25-13.30 **Opening afternoon session**

13.30-14.15 **Self-esteem and other personal resources**
Dr. Claudio Peter, Switzerland

14.20-15.05 **Re-inventing yourself after SCI**
Dr. Susan Charlifue, United States of America

15.10-15.30 Tea break

15.30-16.45 **EMDR and self-esteem**
Dr. Hellen Hornsveld, The Netherlands

16.45 **Closing remarks and drinks**

08:30 – 08:45 **Introduction**

08:45 – 09:15 **Robotic and neuroprosthetic rehabilitation in animal models**
G. Courtine, Switzerland

09:15 – 09:45 **Capacity, performance and quality: Ambulatory outcome measures revisited**
J. van Middendorp, UK

09:45 – 10:15 **Body weight support treadmill & Robotic gait training**
E.C. Field-Fote, USA

10:15 – 10:45 Break

10:45 – 11:15 **Orthotic and FES gait training**
A. Craig, Australia

11:15 – 11:45 **Training strategies to promote restoration of walking function**
E.C. Field-Fote, USA

11:45 – 12:15 **Hope, Hype & Evidence**
A. Curt, Switzerland

12:15 – 12:45 **Discussion**
J. Steeves, Canada & Speakers Panel

12:45 – 13:00 **Summary & Closing remarks**



From 13:00 to 15:00

Part 1: **Basics of Neuro-Urology**

13.00 – 13.10 **Introduction**

Burkhard Domurath, Germany; Ralf Böthig, Germany

13.10 – 13.35 **How to diagnose, to treat and to prevent UTI in patients after SCI**

13.35 – 14.00 **Diagnosis of neurogenic lower urinary tract dysfunction.**

Why we should not give up the urodynamic examination?

14.00 – 14.25 **Renal function.**

A forgotten parameter.

14.30- 15.00 **Intermittent catheterization vs indwelling catheter**

15.00 – 15.15 Coffee Break

Part 2: **Basics of neurogenic bowel**

Veronika Geng, Germany; Dietrich Leder, Germany

15.15 - 15.25 **Epidemiology**

Facts and figures

15.25- 15.45 **Physiology / Pathophysiology**

Function of the gastrointestinal before SCI

Function of the gastrointestinal after SCI

Difference of upper or lower motor neuron lesion for bowel function

15.45 – 16.05 **Diagnostics**

Diagnostic tools

Assessment instruments / scores

16.05 – 16.25 **Clinical impact**

Constipation

Incontinence

16.25 – 16.45 **Bowel management**

Acute and chronic Situation

Failed management

Complications

16.45 – 17.00 **Discussion**

07:45   Transportation: Bus departs from: Entrance to NH Maastricht hotel (near MECC congress centre)

08.15 – 9.00   Arrival and registration

Chair: L.Harvey, Australia; A.Spooren, Belgium

09.00 -9.15   **Introduction**
L Harvey, Australia

09.15 -10.15   **Workshop 1: Shoulder**
P Dobbelsteijn, The Netherlands, I Bersch, Switzerland

10.15-10.30   Coffee Break

10.30-11.30   **Workshop 2: Lifestyle**
R Broeksteeg, The Netherlands, K Wayman, Sweden

11.30 – 12.20   **Interactive session: All participants with panel and patients**
Responsible: L Harvey, P Dobbelsteijn, A Spooren

12.20 – 13.15   Lunch

13.15 – 14.15   **Parallel session - Workshop 3: Respiratory challenges**
K.Postma, The Netherlands, J Ross, Australia

13.15 – 14.15   **Parallel session - Workshop 4: ADL. Training, tips and tricks for independent living**
A.Spooren, Belgium, C Bergfeldt, Sweden

14.15 – 14.45   **Tour Adelante**
M. Wynants, The Netherlands

14.45 – 15.00   Coffee Break

15.00 – 16.00   **Workshop 5: Seating and Mobility**
K Vuijk, The Netherlands, K Vanbreukelen, The Netherlands



16.00 – 17.00 **Workshop 6: Development of a tetraplegic hand, useful for independent life**

J Wangdell, Sweden, L Harvey, Australia

17.00 – 17.15 **Closure**

17.30 Bus back to Maastricht MECC congress centre (venue of ISCoS Opening Ceremony)



Scientific Programme

17:45-18:45

Opening Ceremony

Auditorium

A festive and musical opening of the congress

Welcome address:

Dirk van Kuppevelt, Chair Local Organising Committee

Onno Hoes, Major of Maastricht

Carlotte Kiekens, Vice-Chair of Local Organising Committee

Marc Herremans, To Walk Again

Music by Segura

18:45-20:00

Opening of the Exhibition Hall and Welcome Cocktail

Exhibition / Poster Area

A wonderful opportunity to meet old and make new friends in a relaxed and informal atmosphere.

08:30-09:00	Welcome	Auditorium
	Govert Snoek, President of DUFSCoS Otwin van Dijk, Member of the Dutch Parliament Doug Brown, President of ISCoS	

09:00-10:00	Guttman Lecture Interventions to improve the quality of living with spinal cord injury Prof. Marcel Post, Ph.D. Chair: Doug Brown	Auditorium

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10:00-10:30	Tea and Coffee Break	Exhibition / Poster Area

10:30-12:00	Oral Session 1 (Ageing) Chairs: Ali Jamous, Bakulesh Soni	Auditorium

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Experiences of participation in everyday occupations among persons aging with a traumatic SCI
U Lundstrom, Sweden

Clarification of the molecular bases of the vulnerability in aged spinal cord
K Kamiya, Japan

Prediction of pressure ulcer healing in spinal cord injury patients during conservative treatment with the “Decu-stick”
FWA Van Asbeck, The Netherlands

The relationship of age and labour market participation in individuals with spinal cord injury in Switzerland
A Marti, Switzerland

Functional upper extremity surgery in elderly tetraplegic patients – never too late to improve
A Gohritz, Switzerland



Pro-inflammatory genetic and physiological alterations in peripheral tissues associated with cardiometabolic dysfunction in chronic SCI

MS Nash, United States of America

10:30-12:00

Oral Session 2 (Orthotics)

Room 0.4 (Brussels)

Chairs: Ronald Gies, Martin Pouw

A literature review of the advantages and disadvantages of functional electrical stimulation for spinal cord injury patients

E Postema, Belgium

Feasibility and effects of 2 weeks overnight electrical stimulation-induced muscle activation using electrical stimulation shorts in people with a SCI

CAJ Smit, The Netherlands

Araz medial linkage orthosis to assist for walking in spinal cord injury patients: concept and design

M Ahmadi Bani, Iran

A collaborative approach to the development of a robotic exoskeleton that has an option for functional electrical stimulation

CT Hartigan, United States of America

A systematic review of neuromuscular electrical stimulation for pressure ulcer care in spinal cord injuries

LQ Liu, United Kingdom

10:30-12:00

Oral Session 3. Free Communications (Urology)

Room 0.5 (Paris)

Chairs: Floris van Asbeck, Rizwan Hamid

Nocturnal polyuria in patients with a spinal cord injury: circadian rhythms of renal functions

A Viaene, Belgium

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50 years follow-up on plasma creatinine after spinal cord injury

M Elmelund, Denmark

A comparative study between oxybutynin chloride and onabotulinumtoxinA in spinal cord injured patients: urodynamic evaluation and quality of life

RS Ferreira, Brazil

Failure of urological improvement following the artificial somato-sensory reflex arch (Xiao procedure)

MM Rasmussen, Denmark

Which sacral roots for detrusor innervation? Per-operative electrophysiological findings during Brindley procedure

B Perrouin-Verbe, France

A scoring system for urethral strictures in men with neurogenic lower urinary tract dysfunction

J Krebs, Switzerland

Nocturnal polyuria in patients with spinal cord injury

A Viaene, Belgium

The use of neurologic examination to predict awareness and control of lower urinary tract function post spinal cord injury

MS Alexander, United States of America

10:30-12:00

Workshop 1

Room 0.2 (Berlin/Cop)

ESCIF SCI consumer workshop: Consumer initiatives: pushing the spinal cord injury (SCI) agenda forward

Chair: Jane Horseywell, President, European Spinal Cord Injury Federation

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Workshop Introduction

J Horseywell, Denmark

Back on Track: a unique co-operation between Dutch SCIA and specialised Rehab Centres

J Dekkers, The Netherlands



Parenthood: an SCI perspective

A Täckman, Finland

The role of consumers and consumer organisations

Kim Anderson, United States of America

Ending paralysis: a consumer initiative

C Jeanmaire, The Netherlands

12:00-13:00	Lunch	Exhibition/Poster Area

12:00-13:00	Medtronic Satellite Symposium	Room 0.4 (Brussels)
	Spasticity management: How Intrathecal Baclofen Therapy (ITB) may help transform lives	

12:40-12:55	Mini Satellite Symposium Wellspect HealthCare	Exhibition / Poster Area
	Urinary tract infections and catheter reuse: Lessons from the London 2012 Paralympics Games	

13:00-13:35	Keynote Lecture 1	Auditorium
	Aging and SCI: Focus on the Positives	
	Dr Susan Charlifue, PhD, FACRM	
	Chair: Floris van Asbeck	

13:35-15:05	Oral Sessions 4. Free Communications (Basic Science/Clinical Trials)	Auditorium
	Chair: John Steeves, Ilse van Nes	

Loss of cortical representation of the foot in long-term SCI patients
I van Nes, The Netherlands

Structural biomarkers in the cerebrospinal fluid within 24 hours after a traumatic spinal cord injury: a descriptive analysis of 16 subjects
MH Pouw, The Netherlands

Mental health and spinal cord injury: a heavy load to bear?

A Craig, Australia

Molecular background of the KCC2 up-regulation secondary to treadmill training after spinal cord injury in adult rats

S Tashiro, Japan

The impact of folic acid food fortification on global incidence of neural tube defects: a systematic review and meta-analysis

SC Meier, Switzerland

Optimizing management of ventilator dependent spinal cord injured patients

R Onders, United States of America

Does regular standing improve bowel function in people with spinal cord injury? A randomised controlled cross-over trial

LA Harvey, Australia

Obstructive sleep apnoea (OSA) diagnostic experience in the Midlands Centre for Spinal Injuries (MCSI)

I Zobina, United Kingdom

13:35-15:05

Workshop 3

Room 0.4 (Brussels)

Comprehensive interprofessional approach to management of pediatric spinal cord injury

Chair: Lawrence Vogel, United States of America

Workshop Introduction/Overview of pediatric SCI

L Vogel, United States of America

Orthopaedic considerations and complications

R Betz, United States of America

Rehabilitation/Habilitation

MJ Mulcahey, United States of America



Psychosocial Issues

K Zebrachi, "country"

Case presentations and discussion

13:35-15:05

Workshop 4

Room 0.5 (Paris)

(Surgical) Management of upper extremity in tetraplegia – State of the art

Chair: Anand Nene, The Netherlands

Initial therapy for upper extremities in tetraplegia: no standard recipe and crucial for the reconstructive phase

G Snoek, The Netherlands

Surgical procedures for reconstruction of grips – Current practice

A Nene, The Netherlands

Spasticity surgery

C Reinholdt, Sweden

Post-operative management

J Wangdell, Sweden

Reconstructive Upper Extremity treatment in tetraplegia - Future perspectives

J Friden, Sweden

13:35-15:05

Oral Session 5 (Consumer Rights)

Room 0.2 (Berlin/Cop)

Chair: Tara Jeji, Claes Hultling

An exploration of constituents of, barriers to, and enablers of quality of life in individuals with SCI: an indian perspective

D Parashar, India

End of life decisions in chronic spinal cord injury: a study on the effect of a legal framework in Belgium and the Netherlands

EMS Waals, Belgium

End of life decision in spinal cord injury: working within a legal framework

C Kiekens, Belgium

Causes of in-hospital death after traumatic spinal cord injury in the Netherlands

R Osterthun, The Netherlands

Influence of socio-economic status on management of spinal cord injury

A Bhalla, India

Spinal cord injury in children and adolescents: identifying research priorities through an international service user survey

M Augutis, Sweden

13:35-15:05

Workshop 2A

Room 2.1 (Colorado)

Analyzing factors influencing decision making in Management of Thoracolumbar Spinal Injuries and proposing suitable Treatment Algorithms

Chairs: F C Oner, Michael Haak

Current evidence in management

Osteoporotic Compression injuries

Patrick Kluger

Flexion Distraction injuries

Hans Joseph Erli

Burst fractures

Dr Vikas Tandon



Discussion

Panel Discussion: Factors influencing decision making in Management of Thoraco lumbar Spinal Injuries

Moderator: H S Chhabra

Panelists: Patrick Kluger, Hans Joseph Erli, B. Mohapatra, F C Oner, W S El Masri, Shinsuke Katoh, Rainer Abel, Michael Haak, M L Bansal

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Spine Trauma Study Group's consensus Treatment Algorithms for management of various Thoraco-Lumbar Spinal Injuries

Raghavendra V

Discussion

15:05-16:00 **Tea and Coffee break with poster viewing** **Exhibition / Poster Area**

Poster Session 1

16:00-16:35 **Keynote Lecture 2** **Auditorium**
Fitness and Physical Capacity after SCI: A Marriage Made in Heaven?
Prof. Mark S. Nash, PhD, FACSM
Chair: Luc van der Woude

16:35-17:10 **Keynote Lecture 3** **Auditorium**
Consumer initiatives in the comprehensive management of spinal cord injury: best practice and policy
Dr. J Horsewell
Chair: Prof. Marcel Post

17:10-18:40

Workshop 5

Auditorium

End of life decisions in spinal cord injury: a consumer right to have a choice?

Chair: Carlotte Kiekens, Belgium

An overview of the Belgian (and Dutch) legal framework for euthanasia (and in the Netherlands also medically assisted suicide) applicable since 2002.

A van Nunen, Belgium

Different cases of SCI patients in Belgium with a request for termination of life, including a case of suicide.

A Viaene, Belgium

The legal framework in Switzerland, where medically-assisted suicide is legalised conform with Swiss regulations with the right for self-determination.

A Scheel-Sailer, Switzerland

Round Table

Chair: Carlotte Kiekens, Belgium

Panel: G Jacquemin, Canada

Panel: M. Post, The Netherlands

Panel: A van Nunen, Belgium

Panel: A Viaene, Belgium

Panel: A Scheel-Sailer, Switzerland

17:10-18:40

Oral Session 6 (Sexuality)

Room 0.4 (Brussels)

Chairs: Stanley Ducharme, Catje Dijkstra

Are surgical sperm retrieval techniques necessary in men with spinal cord injury and presenting with lower motor neuron lesions?

JG Prevaire France



Survey of sexuality issues in community-residing people with spinal cord damage in Australia

PW New, Australia

Effects of anticholinergic agents on efficacy of penile vibratory stimulation to obtain ejaculation in spinal cord injured males

M Spinelli, Italy

Need, use and provision: the providers' perspective on healthcare services for women with SCI during pregnancy and childbirth

S Bertschy, Switzerland

FMRI changes during sexual stimulation in women with SCI versus able-bodied women: a pilot study

M Alexander, United States of America

Women's experience of sexuality after the occurrence of non-traumatic spinal cord injury

FW New, Australia

17:10-18:40

Oral Session 7 (Physical Capacity & Fitness)

Room 0.5 (Paris)

Chairs: Lisa Harvey, Pradeep Thumbikat

Ischemic preconditioning improves arm-crank exercise performance in spinal cord-injured individuals through local mechanisms

ST Groothuis, The Netherlands

The effects of hybrid cycle versus handcycle exercise on metabolic syndrome, inflammation and visceral adiposity in people with spinal cord injury

TWJ Janssen, The Netherlands

Nutritional status and body weight change of patient with spinal cord injury in Korea

JC Shin, Republic of Korea

Physical capacity of persons with a spinal cord injury for at least 10 years

S de Groot, The Netherlands

Multidimensional fatigue during rehabilitation in individuals with recently acquired spinal cord injury

T van Diemen, The Netherlands

Effects of wearing a cooling vest during exercise on thermoregulation of spinal cord injured individuals

HJ Thijssen, The Netherlands

17:10-18:40

Oral Session 8. Free Communications (General) Room 0.2 (Berlin/Cop)

Chair: Willemijn Faber, Christof Smit

The effect of sleep apnoea severity on neuropsychological function in people with acute quadriplegia and obstructive sleep apnoea

RM Schembri, Australia

Women with spinal cord injury in Bangladesh

A Aziz, United Kingdom

Responsiveness and minimally detectable differences of the GRASSP Version 1.0: a Canadian multi-centre study

S Kalsi-Ryan, Canada

Spinal cord injury rehabilitation and mental health (SCReaM)

NAL Warner, United Kingdom

Psychometric evaluation of the spinal cord I=independence measure-III

MJ Mulcahey, United States of America

Caring for the caregivers: wellbeing in adults with spinal cord injury in comparison to their caregivers

JW Middleton, Australia



Impact of electric muscle stimulation on orthostatic hypotension in persons with acute spinal cord injury

I Bersch, Switzerland

Digital media use, participation, and quality of life among youth with spinal cord injury

LC Vogel, United States of America

17:10-18:40

Workshop 2B

Room 2.1 (Colorado)

Spine Trauma Study Group Workshop

Analyzing factors influencing decision making in Management of Sub Axial Cervical Spine Injuries and proposing suitable Treatment Algorithms

Chairs: W S El Masri & Patrick Kluger

**Current evidence in Management
Distractive Flexion injuries**

Michael Haak

Compressive Flexion injuries

Shinsuke Katoh

Distractive Extension injuries

F C Oner

Vertical Compression fractures

Rainer Abel

Discussion

Panel Discussion: Factors influencing decision making in Management of Sub Axial Cervical Spinal Injuries

Moderator: H S Chhabra

Panelists: W S El Masri, Shinsuke Katoh, Michael Haak, F C Oner, Rainer Abel, Hans Joseph Erli, B. Mohapatra, Patrick Kluger, M L Bansal

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Spine Trauma Study Group's consensus Treatment Algorithms for management of various Sub Axial Cervical Spinal Injuries

Ankur Nanda

Discussion

18:40

End of program for day



08:00-09:00   **Stewarts Law Breakfast Session**   **Room 0.2 (Berlin/Cop)**
Acute treatment, repatriation, rehabilitation and compensation for those injured abroad.

09:00-09:35   **Keynote Lecture 4**   **Auditorium**
Physiological aspects of ageing with spinal cord injury
Prof. Maria Hopman. Ph.D, M.D.
Chair: Sonja de Groot

09:35-11:05   **Oral Session 9 (Physical Capacity/Fitness)**   **Auditorium**
Chair: Alexandra Rauch, Linda Valent

Peer support training program for individuals with spinal cord injuries in Greece: effects on motivation for exercise and functional ability in ADL

M Georgiou, Greece

Prevalence of low inspiratory muscle strength during inpatient spinal cord injury rehabilitation

K Postma, The Netherlands

Lung function and respiratory muscle strength as predictors for pneumonia in individuals with spinal cord injury?

G Mueller, Switzerland

Exploring the associations between participation in economic activities and Spinal Cord Injury-Functional Index (SCI-FI) domains

R Sinha, United States of America

Physical activity outcomes following SCIPA com: preliminary results

BI Ramos de Oliveira, Australia

Motivation camp in alpine skiing for persons with spinal cord injury, a pilot study

AM Lannem, Norway

09:35-11:05 **Oral Session 10. Free Communications (GU/GI) Room 0.4 (Brussels)**

Chair: Jean Jaques Wyndaele, Maureen Coggrave

Optical detection of urinary tract infection, a feasibility study in children and potential diagnostic method in people with spinal cord injury

M Nigro, Canada

Influence of spinal cord area and neuropathic pain on cardiovascular changes in patients with spinal cord injury during urodynamic investigation

M. Walter, Switzerland

Is Botulinum Toxin really potentiated by aminoglycosides?

E Andretta, Italy

Bowel management in children after spinal cord injury: an observational study

MJ Coggrave, United Kingdom

Neurogenic bowel after Spinal Cord Injury (SCI): the perceived importance of identified concerns to persons with SCI and health care professionals

AS Burns, Canada

Bariatric surgery for morbid obesity in two patients with spinal cord injury

SW Wong, United Kingdom

“Superior mesenteric artery syndrome” – a rare presentation and challenge in spinal injury rehabilitation

J Gawronski, United Kingdom

Outcomes of neurogenic bowel dysfunction management in Thai patients with chronic spinal cord injury

A Kovindha, Thailand



09:35-11:05

Workshop 6

Room 0.5 (Paris)

Challenges in defining functional outcomes and Minimal Clinically Important Differences (MCIDs) for distinct clinical trial populations

Chair: John Steeves, Canada

Concepts and constraints for the determination of study endpoints in early phase clinical trials

Andy Blight, United States of America

What might be a meaningful endpoint for one type of acute SCI may not be meaningful for a person living long-term with a different level or severity of SCI.

Linda Jones, United States of America

Comparing and contrast the statistical concept of minimal detectable difference (MDD) with MCID.

John Steeves, Canada

What are the roles of clinical investigators and SCI participants / consumer advocates in defining MCIDs for acute therapeutic interventions? At this time, can the field of SCI research determine specific MCID thresholds?

Moderated Panel Discussion with Audience Participation

Chair: Keith Tansey, USA;

Panelists:

Jane Horsewell, Denmark

Kim Anderson, United States of America

James Guest, United States of America

Armin Curt, Switzerland

Participants:

John Steeves, Professor, ICORD at UBC & Vancouver General Hospital

Kim Anderson, Associate Professor, U. Miami

Andrew Blight, Chief Scientific Officer, Acorda Therapeutics

Armin Curt, Professor, U Zurich & Spinal Cord Program at Balgrist University Hospital
James Guest, Professor, U Miami
Jane Horsewell, President, European Spinal Cord Injury Federation
Linda Jones, Program Officer, Craig H. Neilsen Foundation
Keith Tansey, Associate Professor, Emory University

09:35-11:05

Room 0.2 (Berlin/Cop)

Prevention Symposium A

SCI Prevention Programs: Factors which determine “What works and what doesn’t”

Prevention of SCI due to RTCs – What works and what doesn’t

Michael Fitzharris, Australia

Prevention of SCI due to Water accidents – What works and what doesn’t

Hendon Murray, United States of America

Prevention of SCI due to Sports – What works and what doesn’t

Andrei Krassioukov, Canada

Prevention of SCI due to Violence – What works and what doesn’t

Eric Weerts, Belgium

Prevention of SCI due to Falls – What works and what doesn’t

H S Chhabra, India

Prevention of SCI due to Falls in Turkey – What works and what doesn’t

Kamil Yazicioglu, India

Screening of 40 second AVs on Prevention

11:05-11:35

Tea and Coffee Break

Exhibition / Poster Area



11:35-13:05

Workshop 7

Auditorium

Symposium on sexuality and spinal cord injury: the state of the art

Chair: Frédérique Courtois, Canada; Marcalee Alexander, USA

Workshop Introduction

F Courtois, Canada

Translation to and fro: What does basic research add to our knowledge of SCI sexual response and treatment

L Marson, USA

Sacral connections: Urologic concerns and their interaction with sexuality and sexual function

F Courtois, Canada

Opportunities for treating female sexual dysfunction after SCI

M Alexander, USA

Male sexual function and SCI: Wanting more than erections and ejaculations

C Hultling, Sweden

Panel Discussion

F Courtois, Canada

M Alexander, USA

11:35-13:05

Oral Session 11. Free Communications (Basic Science/Clinical Trials)

Room 0.4 (Brussels)

Chair: Armin Curt, Linda Jones

Recruiting patients with acute spinal cord injury for clinical studies: lessons learned

A Frotzler, Switzerland

Autonomic function in spinal cord injury by heart rate variability analysis

L Malmqvist, Denmark

Human iPS cell-derived oligodendrocyte precursor cells can enhance the remyelination of demyelinated axons after spinal cord injury in adult mice

S Kawabata, Japan

AAV-NG2-antibody: new gene therapy improving conduction deficits and facilitating function after SCI

VL Arvanian, United States of America

Time window and mechanism of myelotomy in the treatment of acute traumatic spinal cord injury in rats

L Jianjun, Peoples Republic of China

Low immunogenicity of iPS derived neural stem cells

G Itakura, Japan

Proton magnetic resonance spectroscopy of the cervical spinal cord

S Maki, Japan

Inhibition of poly(ADP-Ribose) polymerase activity by 5-AIQ modulates autophagy induced by experimental spinal cord trauma

E Esposito, Italy

11:35-13:05

Workshop 8

Room 0.5 (Paris)

Implementing the international spinal cord injury data sets through web-based registries: experiences from Netherlands and Victoria, Australia

Chair: Fin Biering-Sørensen, Denmark

Implementing the Dutch Spinal Cord Injury Data Sets

HJR Sloodman, The Netherlands

Inter-rater reliability of the Dutch Spinal Cord Injury Data Sets

SAHB van Langeveld, The Netherlands

Embedding the International Spinal Cord Injury Data Sets into usual care

M Graco, Australia



Future for the utilization of the International SCI Data Sets

F Biering-Sørensen, Denmark

11:35-13:05	Prevention Symposium B	Room 0.2 (Berlin/Cop)
	Prevention of SCI, what works & what doesn't	

Screening of 10 min AV on Prevention

Comments from audience on 40 second AVs

Prevention of SCI due to Non Traumatic Etiology – What works and what doesn't

Peter New

Prevention of SCI in the Netherlands – What works and what doesn't

Casper van Koppenhagen

Panel discussion: Factors determining success or failure of Prevention program

Panelists: M Fitzharris, Herndon Murray, Andrei Krassioukov, Douglas Brown, Eric Weerts, Kamil Yazicioglu & Casper van Koppenhagen

Moderator: H S Chhabra

13:05-14:05	Lunch	Exhibition/Poster Area

13:05-14:05	Wellspect HealthCare Satellite Symposium	Room 0.4 (Brussels)
	Below the belt. Towards functional recovery – the triad of bladder, bowel and sex	

14:05-14:50	ISRT Lecture:	Auditorium
	Preclinical strategies for spinal cord injuries: From Diet to Cell transplantation	
	Wolfram Tetzlaff	
	Chair: Susan Charlifue	

14:50-15:20	Keynote Lecture 5 The Current Status of Powered Exoskeletons Prof. Ed Lemaire, PhD Chair: Dirk van Kuppevelt	Auditorium
15:20-16:10	Tea and Coffee break with poster viewing	Exhibition/Poster Area
16:10-17:40	ISCOS AGM	Auditorium
17:40	End of program for day	
19:00-23:00	Gala Dinner	



07:30-09:00 **Breakfast session:** **Room 0.2 (Berlin/Cop)**
International SCI Research: What helps and hinders consumer participation in trials and how do we tip the scales toward enhanced enrolment?

Chair: Doug Brown, President of ISCoS

Results from the Consumer Survey 7.50-8.10

Kim Anderson-Erisman

Interactive session: Recruitment of consumers: Lessons Learned and Action Planning

Facilitator: Kent Bassett-Spiers

The Next Steps: Summary of key actions and progress on the Researchers Survey of barriers and facilitators to international collaborations

Vanessa Noonan (with assistance from Doug Brown and Verna Smith).

09:00-09:35 **Keynote Lecture 6** **Auditorium**
Sexual adjustment following spinal cord Injury: What research has brought us, what clinical practice should promise?

Dr Frédérique Courtois

Chair: Charlotte Kiekens

09:35-11:05 **Workshop 9** **Auditorium**
Sexual Health after SCI – contemporary practice standards

Developing Clinical Practice Guidelines on Sexuality for People with SCI

S Ducharme , United States of America

The ABC of Sexual Functioning in Post-SCI Rehabilitation: Ability, Barriers, Culture

D Parashar, India

Sexuality after SCI: The Physician's Perspective

HS Chhabra, India

Developing an Effective Sexuality SCI Patient Education Video

D Rohe, United States of America

09:35-11:05

Oral Session 12 (Ageing)

Room 0.4 (Brussels)

Chairs: Casper van Koppenhagen, Martin McClelland

Change in bowel management method in persons ageing with spinal cord injury

A Jamous, United Kingdom

Swedish Ageing with a Spinal Cord Injury Study (SASCIS): functioning and disability and associations with socio-demographic and injury characteristics

S Jorgensen, Sweden

Emergency room visits and related hospitalizations among those with chronic spinal cord injury

Y Cao, United States of America

Mortality and longevity after a spinal cord injury: systematic review and meta-analysis

JD Chamberlain, Switzerland

Trend of age and co-morbidity in people over 65 years of age with acute spinal cord lesion (SCL)

P Santullo, United Kingdom

Sportive aging – bann or boon?

O Mach, Germany



09:35-11:05

Oral Session 13. Free Communications (Measurements/health issues)

Room 0.5 (Paris)

Chairs: David Tulsy, Sonja de Groot

Psychometric validation of the Utrecht scale for evaluation of rehabilitation-participation in persons with spinal cord injury in Switzerland

MWG Brinkhof, Switzerland

Development and evaluation of environmental factor instruments for use following spinal cord injury

AW Heinemann, United States of America

The international standards for neurological classification of spinal cord injury (ISNCSCI): consensus between expert examiners and clinicians

R Marshall, Australia

Embedding the international Spinal Cord Injury (SCI) datasets into usual care

M Graco, Australia

Intrathecal baclofen dosage during long-term treatment in patients with spasticity due to traumatic spinal cord injuries or multiple sclerosis

B Skoog, Sweden

The role of the endoplasmic reticulum stress response in neural apoptosis of the injured spinal cord

H Katoh, Japan

Patient-reported impact of spasticity in people with spinal cord injury (SCI): identification and assessment of patient-reported outcome (PRO) measures

C Green, Switzerland

Functional hindrance due to spasticity in persons with spinal cord injury during inpatient rehabilitation and 1 year thereafter

IP van Cooten, The Netherlands

09:35-11:05

Oral Session 14. Free Communications (Systems)

Room 0.2 (Berlin/Cop)

Chairs: Georgio Scivoletto, Ellen Roels

Successes and challenges with initiating SCI rehabilitation in Botswana

I Löfvenmark, Sweden

The experience of achieving a successful employment outcome following traumatic spinal cord injury; pathways and processes

GM Hilton, Australia

Availability and quality of health service provision for persons with spinal cord injury

A Gemperli, Switzerland

Work stress and quality of life in persons with disabilities from four European countries: the case of spinal cord injury

M Post, Switzerland

Travelling around by public transport in Belgium as a person with a spinal cord injury (SCI): a pilgrimage?

PC van Roey, Belgium

Incidence and impact of delays in referral and admission of newly injured patients to a spinal cord injury centre

J Khare, United Kingdom

Minimal clinically important difference (MCID) of the Spinal Cord Independence Measure (SCIM III). An anchor-based study

G Scivoletto, Italy



Validation of the Italian version of the spinal cord independence measure (SCIM III) self- reported

J Bonatti, Italy

11:05-11:35   **Tea and Coffee Break**

Exhibition/Poster Area

11:35-13:05   **Oral Session 15 (Physical Capacity/Fitness)**

Auditorium

Chairs: Inge Eriks-Hoogland, Anand Nene

Training for a handcycling mountain time trial: pilot study on the benefits for fitness

LJM Valent, The Netherlands

Gains in bone strength after 6 months of FES-Row-Training: preliminary findings of a randomized control trial in men with motor complete SCI

LR Morse, United States of America

Validation of a home-based exercise protocol for spinal cord injured persons developed on android operating system

R Menosso, Italy

Imaginary exercises in people living with SCI evoke pain and dysesthesia with a strong somatotopic concordance

GT Allison, Australia

Analysis of handbike use in the Swiss spinal cord injury population

U Arnet, Switzerland

Eat less and gain weight? -- changes of resting energy expenditure and body composition during the first six months after spinal cord injury

W Schmid, Switzerland

11:35-13:05	Workshop 10 Room 0.4 (Brussels)
	New measurement techniques to improve the clinical care of individuals with SCI
	Chair: David Tulsy, United States of America
	New committees and interest in defining common data elements that can be used across SCI research and practice S Charlifue, United States of America
	New PRO measurement techniques D Tulsy, United States of America
	Several ways to measure bladder and bowel functioning in individuals with SCI D Tate, United States of America
	Development of the SCI-FI2 measurement system A Jette, United States of America

11:35-13:05	Workshop 11 Room 0.5 (Paris)
	The world health organization's (WHO) international perspectives on spinal cord injury (IPSCI) report: implications
	Chairs: Per Maximilian von Groote, Switzerland, Doug Brown, Australia
	SCI Epidemiology, a global perspective. Martin Brinkhof, Switzerland
	Meeting health care and rehabilitation needs after SCI in high- and low-resource settings: a global perspective Anthony Burns, Canada
	Systems of care. Providing optimal care and follow up in worldwide settings . Perspectives from an international non-governmental development organization – Handicap International Eric Weerts, Belgium



Implementing WHO health reports. Bridging the gap from recommendation to evidence informed policy and practice

Per Maximilian von Groote, Switzerland

11:35-13:05

Oral Session16. Free Communications (General health issues)

Room 0.2 (Berlin/Cop)

Chairs: Andrei Krassioukov, Samford Wong

The efficacy and tolerability of intravesical oxybutynin and oral fesoterodine: a retrospective cohort study in the adult spina bifida population

K Dewulf, Belgium

BiPAP is often better tolerated and a more effective therapy than CPAP for tetraplegic patients with obstructive sleep apnea

T Bezeij, van, The Netherlands

Is there a role for extra corporal pump trial in indication and goal setting for intrathecal baclofen therapy?

GJ Snoek, The Netherlands

Health care utilization in persons with traumatic spinal cord injury: the importance of multi-morbidity and the impact on patient-reported outcomes

VK Noonan, Canada

General health perception of persons with spinal cord injury during the first five years after the onset of injury

MCM Langenberg, The Netherlands

Prevalence and related factors of pressure ulcers among chronic spinal cord injury wheelchair users in northern Thailand

A Kovindha, Thailand

Bacterial load of conditioned pressure sores is not a predictor for early flap failure in spinal cord injury

P Kammuang-Lue, Germany

13:05-14:05   **Lunch**   **Exhibition/Poster Area**

13:05-14:05   **Coloplast Satellite Symposium**   **Room 0.4 (Brussels)**
Honoring sexuality in women with SCI

14:05-14:40   **Keynote Lecture 7**   **Auditorium**
Optimizing Wheeled Mobility, does it matter?
Prof. Luc Van Der Woude, PhD
Chair: Govert Snoek

14:40-16:10   **Oral Session 17. Free Communications (Basic Science/Clinical Trials)**   **Auditorium**
Chairs: Sukhuinder Kalsi-Ryan, Joost van Middendorp

Survival of neural stem/progenitor cells is promoted when cells are loaded in artificial microfibers in mouse complete spinal cord injury model
K Hori, Japan

The neuroprotective effects of co-ultraPEALut in a mouse model of spinal cord injury
I Paterniti, Italy

A new co-ultramicronized composite including palmitoylethanolamide and luteolin prevents neuroinflammation associated to spinal cord injury
S Cuzzocrea, Italy

Investigation of the effect of cryopreservation on the character of iPS cell-derived neural stem cells for spinal cord injury
Y Nishiyama, Japan

Combined cell therapy for complete chronic Spinal Cord Injury (cSCI) patients. Response after one year of treatment
GA Moviglia, Argentina



Pharmacological prophylaxis for deep vein thrombosis in acute spinal cord injury: Indian perspective

H Chhabra, India

Screening for deep vein thrombosis with duplex ultrasound and D-dimer in spinal cord injured patients at shortly after injury

S Matsumoto, Japan

Cutaneous nociceptive afferent central projections plasticity matches nociceptive hypereflexia/dysautonomia after rodent spinal cord injury

KE Tansey¹, Unites States of America

14:40-16:10

**Oral Session 18. Free Communications
(Spine Surgery)**

Room 0.4 (Brussels)

Chairs: Michael Haak, Mikkel Mylius Rasmussen

Pattern of cerebrospinal fluid phosphorylated neurofilament subunit NF-H (pNF-H) is predictive for evolution of secondary lesions in SCI

SM Lencean, Romania

Practice patterns of steroid administration for acute SCI: A Canadian perspective

K Noonan, Canada

Reliability of the spine adverse events severity system for traumatic sci (saves-sci)

RA Glennie, Canada

Regional differences in acute phase management of tSCI in the Netherlands: consequences for outcome?

BL Fransen, The Netherlands

Comparison surgical outcomes in thoracolumbar fractures operated with posterior constructs having varying fixation length with anterior fusion

A Nanda, South Korea

Spondylotic myelopathy: rehabilitation outcomes after surgical intervention or without it

A Catz, Israel

Rapid incremental closed traction reduction of cervical dislocations in spinal cord injury patients: success rate and neurological outcomes

WA Ahmed, United Kingdom

Spasticity, dynamic and static standing training in individuals with spinal cord injury

MS Sadeghi, Canada

14:40-16:10

Workshop 12

Room 0.5 (Paris)

Pregnancy following spinal cord injury

Chair: A Krassioukov, Canada

Lactation following pregnancy with spinal cord injury: role for autonomic nervous system

Andrei Krassioukov, Canada

Autonomic Dysreflexia during pregnancy and labor in women with SCI

Jean-Gabriel Prévinaire, France

Sexual health and fertility

Stacy Elliott, Canada

Urinary Tract Problems during and after Pregnancy in SCI:

Marije Vos-van der Hulst, The Netherlands

Canadian consensus on pregnancy following SCI

Shea Hocaloski (RN), Canada

Pregnancy and SCI: personal experience

Marie-Helene Warrens, Belgium



14:40-16:10	Workshop 13 Improving quality of life for people with spinal cord injury and their families: a comparison of different approaches to peer mentoring Chair: Lucy Robinson, United Kingdom	Room 0.2 (Berlin/Cop)
	Quality standards (needed) for effective peer support Jos Dekkers, The Netherlands	
	"Someone who understands": Peer Support for Family Members Polly Nabarro, United Kingdom.	
	Creating opportunities: Space and time for peer support Kevin Schultes, Germany.	
16:10-17:00	Closing Ceremony	Auditorium



Keynote Speakers

Susan Charlifue

Dr Susan Charlifue, PhD, FACRM
Senior Principal Investigator
Craig Hospital, USA



Dr Susan Charlifue has over 30 years of experience in SCI research and quality assurance. Having completed her doctorate in Health and Behavioural Science at the University of Colorado, Denver in 2004, she has successfully managed and completed six major investigations of the long-term consequences of SCI in the US and Great Britain. Presently, Susie is Co-Principal Investigator SCI Model System at Craig Hospital in Englewood, Colorado, Principal Investigator on both a National Institute on Disability and

Rehabilitation Research-funded study of family caregivers in SCI and Department of Defense-funded study of caregivers for veterans with SCI, and has coordinated several SCI research clinical trials. She chairs the Research Task Force at Craig Hospital and is a member of the SCI Program Committee. She is a member of the Editorial and Education Committees and is Chair of the Scientific Committee of the International Spinal Cord Society. Susie also participates as a member of the editorial boards for the journals Spinal Cord and Topics in Spinal Cord Injury Rehabilitation. She chairs the SCI Interdisciplinary Special Interest Group for the American Congress of Rehabilitation Medicine (ACRM) and serves on the Board of Directors for the American Spinal Injury Association. She became a Fellow of ACRM in 2012.

Frédérique Courtois

Dr Frédérique Courtois
Professor
Université du Québec à Montréal, Canada



Dr Frédérique Courtois is a PhD in psychophysiology and has worked for the past 20 years in the area of sexual rehabilitation. She has written over 75 articles primarily as a first author on sexual function in men and women with SCL, and has written several chapters and books in Sexual Medicine. She participated in more than 250 national and international conferences on her work and has actively collaborated with Lyon's Rehabilitation Centre (France) over the past 20 years. She is currently full professor in the

Department of Sexology at the Université du Québec à Montréal (Canada) and is a clinical consultant for sexual dysfunctions in men and women with spinal cord lesions and other disabilities in Montreal and Quebec's Rehabilitation Centres. Her research focuses on the remaining sexual potential of men and women with spinal cord lesions, and in developing tools and treatment strategies for this individuals with physical disabilities. Her current research also focuses on the phenomenon of orgasm and its underlying neurophysiology.

Maria Hopman

Prof Maria Hopman Ph.D., M.D.

Professor of Physiology

Radboud universitair medisch centrum, the Netherlands



The research of Maria Hopman is best summarized by the theme Healthy Aging or Preventive Medicine. The overall goal of her research is to improve 'health' and to understand the concept of 'vitality' of individuals as they age from conception to decease by unraveling the mechanisms that explain the relationship between inactivity and the development of chronic diseases as well as exercise and health. Interventions such as exercise that are known to counteract the detrimental health processes are explored and optimized.

Her research is focused on vascular physiology and pathophysiology as well as on metabolic aspects of health, thereby focusing on patients with cardiovascular disease, the metabolic syndrome and diabetes, with emphasis on primary and secondary prevention. The research has a strong history in human in vivo experiments in several patient groups and in healthy volunteers from all ages. The last couple of years the research has been expanded from the human in vivo to the molecular and the genetic level, which is a highly innovative and promising combination.

A parallel line is the research performed in large sports events (Four day marches, Seven hill race, Eindhoven marathon). The purpose of this research is to provide safety guidelines for organizations and participants based on physical exertion and risks measured during those events. This type of research has a strong interest from the media and the society.

Jane Horsewell

Dr Jane Horsewell

President

European Spinal Cord Injury Federation, Denmark



Jane was born and educated in the UK before moving to Denmark. She earned an MSc in Sociology from the London School of Economics and spent two further years in research at the School. On arrival in Denmark, Jane started her own firm teaching business executives in some of Denmark's major companies. Since the late 1990s, she has taught faculty members at the Copenhagen Business School. In 1996, Jane sustained a spinal cord injury and soon became active in the Danish Spinal Cord

Injuries Association. She was elected to the Board in 1999 and served as Chairman from 2002 – 2006. When the European Spinal Cord Injury Federation was founded in 2006, Jane was appointed Vice President. In 2010, Jane was elected President of ESCIF. In





addition to her duties in Europe, Jane has continued to be active in SCI initiatives in Denmark and has played a major role in the establishment of the Global SCI Consumer Network. Jane has been actively involved in research on issues related to SCI; she has initiated and been involved in several projects under the auspices of ESCIF and has presented a number of papers at ISCoS, NoSCoS and ASCoN meetings. She was a member of the advisory board and a contributor to the WHO/ISCoS report International Perspectives on Spinal Cord Injury and is co-author of several publications. She is a member of the elearnsoci.org editorial board and a member of the ISCoS Prevention committee.

Ed Lemaire



Edward Lemaire, PhD holds a number of appointments, including Clinical Researcher at the Centre for Rehabilitation Research and Development (The Ottawa Hospital Research Institute), Associate Professor at the University of Ottawa Faculty of Medicine, Adjunct Professor with the University of Ottawa Schools of Human Kinetics and Mechanical Engineering, Adjunct Professor with the University of Waterloo Department of Systems Design Engineering, and Past-President of the International

Society of Prosthetics and Orthotics (Canada). Dr. Lemaire has been extensively involved with the evolution of assistive technologies that improve mobility for people with disabilities and eHealth for clinical service and continuing education, with over 300 published papers and presentations.

In the prosthetics and orthotics area, current research includes development of new intelligent knee orthosis technologies, development and evaluation of lower extremity powered exoskeletons for assisted walking, and biomechanical walking analysis in variable environments. In the multimedia technology area, current research includes motion assessment in The Ottawa Hospital Rehabilitation Centre's new Virtual Reality Lab, Smartphone-based technology for wearable mobility assessment (i.e., wearable telerehabilitation), and communication technology for enhancing international prosthetic and orthotic expertise.

Mark S. Nash

Prof Mark S. Nash, Ph.D., FACSM Professor, Departments of Neurological Surgery and Rehabilitation Medicine Principal Investigator (Applied Physiology Research) The Miami Project to Cure Paralysis Director of Research, Department Rehabilitation Medicine University of Miami Miller School of Medicine



Mark S. Nash, Ph.D., FACSM is a tenured Professor of Neurological Surgery and Rehabilitation Medicine at the University of Miami School of Medicine, Principal Investigator/Director of the Applied Physiology Research Laboratory for the Miami Project to Cure Paralysis, and Director of Research for the Department of Rehabilitation Medicine. He is a Fellow of the ACSM. Dr. Nash has primary interests in assessment and treatment of cardiometabolic disease risks after SCI. He has published more than

100 peer-review articles on these themes and related topics within rehabilitation physiology.

Dr. Nash has served on special interest panels and research advisory boards for the U.S. National Institutes of Health, Centers for Disease Control & Prevention, and National Institute for Disability and Rehabilitation Research (NIDRR). He is an Editorial Board Member for Topics in SCI Rehabilitation and Chair of the Consortium for Spinal Cord Medicine Guideline Panel on Cardiometabolic Disorders. Dr. Nash is PI for a Department of Defense (DoD) multi-center trial examining diabetes prevention after SCI through lifestyle intervention, and Co-PI on a DoD award examining sleep disorders and cognitive function after SCI. His other federal grants focus on exercise for obesity prevention after paraplegia and sleep-disordered breathing and cardiometabolic disease risks after SCI. Dr. Nash was PI for the NIDRR-funded multicenter trial examining Niaspan in Tetraplegia for which he received the 2012 ASIA David Apple award. He is currently Co-PI for a NIDRR- funded Multi-Center RRTC on Secondary Conditions in SCI, and Co-Director of the NIDRR-funded South Florida SCI Model System.



Luc Van Der Woude

Luc van der Woude

Professor 'Rehabilitation and Functional Recovery' of the Center for Human Movement Sciences, University Medical Center Groningen, University of Groningen



Lucas HV van der Woude (1954) is full professor in 'Human Movement, Rehabilitation and Functional recovery' and coordinator of the section 'Rehabilitation and Functional Recovery' of the Center for Human Movement Sciences, University Medical Center Groningen, University of Groningen; as human movement scientist he is specialized in rehabilitation, exercise, assistive technology and ergonomics and has his main interests in wheeled mobility, upper body cyclic exercise, locomotion

and skill development, and sports and handicap (www.rug.nl/staff/l.h.v.van.der.woude). In 2000 he was initiator and program leader of the clinical research network 'Restoration of mobility in spinal cord injury rehabilitation', based on among others a prospective cohort study (Umbrella project) and different nested experimental studies, and on the research program ALLRISC (www.scionn.nl).

He is visiting professor at the Department of Sport Sciences, Peter Harrison Centre for Disability Sports, Loughborough, UK and has an adjunct appointment at the Department of Rehabilitation of the UMCG, at the Human Engineering Research Laboratories of the School for Health and Rehabilitation Sciences, University of Pittsburgh, USA, and at the Faculty of Kinesiology and rehabilitation Sciences of the KU Leuven in Belgium.

He is recipient of the 2011 IPC Paralympic Scientific Award and co-authored close to two hundred peer reviewed sci publications.



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Poster Presentations

Topic: Ageing

S1.P1

High incidence of acute traumatic spinal cord injury in a rural population in Japan in 2011 and 2012: an epidemiological study

Katoh, S, Japan

S1.P2

Neurological and functional recovery in elderly patients with traumatic and non-traumatic spinal cord injury

Kurz, S, Germany

S1.P3

Clinical course and prognosis of patients 75 years old and older with cervical spinal cord injury

Yamamoto, I, Japan

S1.P4

Current treatment of individuals with traumatic spinal cord injury: do we need age-specific guidelines?

Noonan, VK, Canada

S1.P5

Fear of falling in wheelchair using individuals with spinal cord injury

Butler Forslund, E, MSc, RPT, Sweden

S1.P6

Bone health opinions and practice patterns after spinal cord injury

Zobina, I, United Kingdom

S1.P7

Bladder and bowel related quality of life: differences based on age, time since injury and neurological classification

Tate, DG, USA

S1.P8

The effects of a self-management intervention on an active lifestyle in persons with aging spinal cord injury: a randomized controlled trial

Bussmann, JBJ, The Netherlands

S1.P9

Swallowing problems revealed an unusual late complication 25 years after complete spinal cord injury

Holmström, MU, Sweden

S1.P10

Age related differences in shoulder joint biomechanics during manual wheelchair propulsion

Symonds, A, United Kingdom

Topic: Consumer Rights

S1.P11

The experience of learning to eat again after a high spinal cord injury

Johansson, M, Sweden

S1.P12

Participatory action research and the role of consumer networks to improve primary care for persons with spinal cord injury

Lee, J, Canada

S1.P13

Changes of decision making and capacity of autonomy with a spinal cord injury -- acute and long-term phases: a qualitative interview based study

Scheel-Sailer, A Switzerland

S1.P14

The implementation of the New Zealand based international upper limb surgery registry

Sinnott, KA, New Zealand



S1.P15

Experience from the spinal cord injured interest organization in Cambodia

Glott, T, Norway

S1.P16

Outcomes in relation to discharge destination for a group of newly injured patients discharged from a spinal cord injury centre in the UK

Khare, J, United Kingdom

S1.P17

AusCAN Access program enables independent data capture in research on tablets and and laptops

Swaine, J¹, Australia

Topic: Free

S1.P18

The relationship between the MRI features and the neurological prognosis in patients with cervical spinal cord injury without major bone injury

Matsushita, A, Japan

S1.P19

Improvement of dysphagia after anterior cervical instrumentation removal

Jeon, H, Korea, Republic of

S1.P20

Audit of botulinum toxin therapy to manage focal spasticity in spinal cord injury

Kumar, N, United Kingdom

S1.P21

Effect of and satisfaction with www.elearnSCI.org for training of nurse students: a sub-module pilot study

Liu, N, China, Peoples Republic

S1.P22

A suitable surgical method for old distractive-flexion injuries of the subaxial cervical spine

Kawano, O, Japan

S1.P23

Benefits of early transport to specialized centres of care for SCI

Noonan, VK, Canada

S1.P24

Modification and validation of a motor-response dependent measure of sleepiness (OSLER-2) for use in spinal cord injury

Berlowitz, D, Australia

S1.P25

Current surgical practice for traumatic spinal cord injury in Canada

Noonan, VK, Canada

S1.P26

Current surgical practice for traumatic spinal cord injury in central cord syndrome patients in Canada

Noonan, VK, Canada

S1.P27

Differences in surgical treatment for tSCI across Canada: are surgeons doing what they say they are doing?

Noonan, VK, Canada

S1.P28

The importance of “time to surgery” for traumatic spinal cord injured patients: results from an ambispective Canadian cohort of 949 patients

Noonan, VK, Canada

S1.P29

Health and quality of life outcomes of spinal cord injury patients comparing rural and urban residents

Glennie, RA, Canada



S1.P30

Case report: chronic autonomic dysreflexia and Charcot arthropathy of the spine after scoliosis surgery

Salvador-De la Barrera, S, Spain

S1.P31

Restless leg syndrome in patients with spinal cord injury and neuropathic pain

Kumru, H, Spain

S1.P32

Invasive dumbbell spinal meningiomas: report of four cases and review of the literature

Iwanami, A, Japan

S1.P33

Using penile vibratory stimulation for controlling spasticity and spasm in spinal cord injury

Susser, J, United Kingdom

S1.P34

Isolated bilateral phrenic nerve palsy in a paraplegic patient complicating weaning from ventilation

Shanbhag, S V, United Kingdom

S1.P35

Global meaning in people with spinal cord injury: content and changes

Littooij, EC, The Netherlands

S1.P36

Epidemiology and outcome of ankylosing spondylitis with spinal cord injury: five year followup of a single centre study, Indian perspective

Mahajan, R, India

S1.P37

Usefulness of laser-evoked potentials and quantitative sensory testing in patients with spinal cord injury pain: a multiple case study

Landmann, G, Switzerland

S1.P38**Development of an international spinal cord injury (SCI) spinal interventions and surgical procedures basic data set**

Noonan, VK, Canada

S1.P39**Retrospective review of time to surgical decompression in traumatic spinal cord injured patients in Ireland**

Smith, EM, Ireland

S1.P40**Establishing disease severity of cervical spondylotic myelopathy (nontraumatic SCI) through novel sensitive gait assessments**

Kalsi-Ryan, S, Canada

S1.P41**Loss of manual dexterity and related upper limb disability in cervical spondylotic myelopathy (nontraumatic SCI): The role of upper limb assessment**

Kalsi-Ryan, S, Canada

S1.P42**Rehabilitation outcomes of patients with cervical cord injury complicated by CVA: a report of 2 cases**

Prasanna, K, Singapore

S1.P43**Retrospective study of the effectiveness of spinal cord injury rehabilitation by Spinal Cord Injury Ability Realization Measurement Index (SCIARMi)**

Scivoletto, G, Italy

S1.P44**Mid- to long-term outcomes of posterior decompression with instrumented fusion for thoracic ossification of the posterior longitudinal ligament**

Koda, M, Japan

S1.P45**Spinal cord infarction in a patient receiving hormone replacement therapy**

Mannoji, C, Japan



S1.P46

Surgical revision of Intrathecal Drug Delivery System (ITDDS) due to complications

Bandi, S , United Kingdom

S1.P47

5-year epidemiology of spinal cord injury in Indonesia: an example from Yogyakarta Province

Ferdiana, A The Netherlands

S1.P48

Rehabilitation of patients with spinal cord injury in Greece

Rapidi, CA, Greece

S1.P49

Traumatic and non-traumatic spinal cord injury incidence and care paths in a region in the center of Italy

Pagliacci, MC, Italy

S1.P50

Osteodensitometry in individuals with spinal cord injury: where and how to measure

Frotzler, A, Germany

S1.P51

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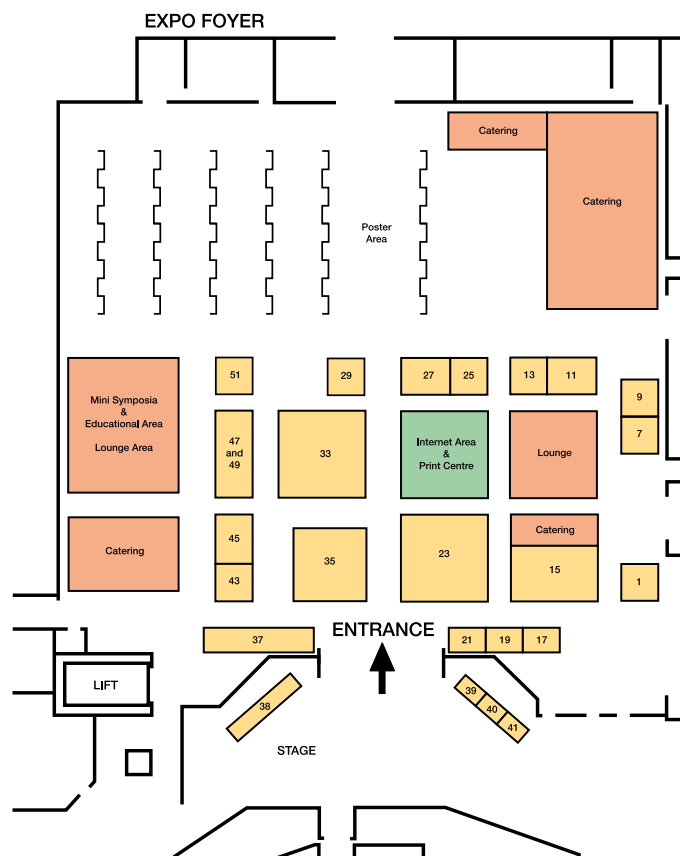
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Website: www.bioness.com

Bioness provides neuromodulation technologies that help improve lives and restore function for those living with neurological deficit, for which the main products are L300(Plus) and H200.

Recently, Bioness introduced the Vector Gait and Safety System, an advanced system that allows overground walking and balance training.

**Careways International BV**

Stand Number: 1

Angsteldkade 2A 3.1

3631 NA Nieuwersluis

Tel: +31294458400

Email: Info@careways-int.com

Website: www.careways-int.com

Careways International is a Dutch based company situated in the middle of the Netherlands. It has a sound trackrecord in solving complex seating related problems like pressure sores. Careways is the European distributor for Star Cushions, a US based company, known for its aircell cushions and mattresses. Careways will also showcase a product which is a Segway based mobility product which is called AddSeat, one that does function even with higher spinal cord injuries. Stop at this stand, absolutely worth your time.

**Coloplast A/S**

Stand Number: 35

Holtedam 1

DK - 3050 Humlebæk

Denmark

Tel: +45 (0) 4911 1111

Website: www.coloplast.com

The Coloplast story begins in 1954. To help her sister Thora, nurse Elise Sørensen conceives the idea of the world's first adhesive ostomy bag.

A bag that gives Thora – and thousands of people like her – the chance to return to their normal life.

Today, our business includes ostomy care, urology and continence care and wound and skin care. But our way of doing business still follows Elise's example: we listen, we learn and we respond.





Ekso Bionics

Stand Number: 13

29th Floor, 1 Canada Square, Canary Wharf,
London
E14 5DY
United Kingdom
Tel: +44 (0) 207 060 3568

Ekso Bionics™ continues to be a pioneer in the field of exoskeletons used in rehabilitation for people affected by SCI. The Ekso™ is used in leading hospitals in both Europe and the US and during ISCOS 2014 we will provide the opportunity to test the Ekso, talk with patients and find out about the latest research.

**HASOMED GmbH**

Stand Number: 25

Paul-Ecke-Str.1
39114 Magdeburg
Tel: +49 391 61 07 643
fax: +49 391 62 30 113
Email: sabine.hartmann@hasomed.de
Website: www.hasomed.de

Hasomed is an owner-managed company who provides for more than 20 years medical devices for physicians, therapists and patients in the field of neurological rehabilitation worldwide. - RehaCom–Computer-Assisted Cognitive Therapy for all cognitive field and all rehabilitation phases - RehaMove–Movement Therapy with Electrical Stimulation.

**Hocoma**

Stand Number: 27

Industriestrasse 4
CH-8604 Volketswil
Switzerland
Tel: +41 43 444 22 00
Fax: +41 43 444 22 01
Email: info@hocoma.com
Website: www.hocoma.com

The Swiss medical technology company Hocoma is global market leader for the development, manufacturing and marketing of robotic and sensor-based devices for functional movement therapy. Our solutions support the treatment of neurological patients with movement disorders as well as low back pain patients. All products are developed in cooperation with renowned rehabilitation clinics and research institutes.

**Hollister Incorporated**

Stand Number: 45

2000 Hollister Drive
Libertyville, IL 60048
USA
Tel: +1 847 680 1000
Website: www.hollister.com

At Hollister Incorporated, we are dedicated to delivering the highest standard of quality in medical products and services, and each member of the Hollister team is committed to making a difference in the lives of people who use our products.





Mediq CombiCare

Stand Numbers: 7 and 9

Coenecoop 375 2741 PN Waddinxveen
Address 2: Postbus 468 2800 AL Gouda (mailbox)
Netherlands
Tel: +31 (0)182 611 777
Fax: +31 (0)182 622529
Email: pita.hoogendoorn@mediq.com
Website: www.mediqcombicare.nl

Mediq is a healthcare company delivering medical devices and related care services. The patient is at the center of everything we do. Mediq delivers direct to peoples homes and to professional healthcare customers.

Mediq Combicare and Mediq Medeco provides these together with information, instruction and nursing care.

MediReva

MediReva

Stand Number: 21

Weerhuisweg 4
6226 NC
Maastricht
The Netherlands
Tel: 0800 0 201 201
Fax: +31 43 457 25 42
Email: info@medireva.nl
Website: www.medireva.nl

Since 1997, MediReva is a specialty store in caretaking products and medical devices. MediReva is one of the largest suppliers of medical devices in The Netherlands. With their products and services, they help to improve peoples' quality of life. Offering the best possible service by maintaining a strong customer focus is MediReva's main strength. Personal advice, high quality products and maintenance, and fast delivery are highly valued at the organisation. By investing in their people and products, optimal service, certainty, and continuity can be ensured.



Medtronic International Trading Sàrl

Stand Number: 33

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Email: rs.getintouch@medtronic.com
Website: www.medtronic.eu

At Medtronic, we're committed to Innovating for Life by pushing the boundaries of medical technology and changing the way the world treats chronic disease. Visit the Medtronic booth to learn more about our targeted drug delivery therapy that may help your patients with severe spasticity due to spinal cord injury.



Nature Publishing Group

Stand Number: 41

The Macmillan Building
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London
Tel: + 44 (0) 207 833 4000
Email: Steven.Hurst@nature.com
Website: www.nature.co.uk

About Nature Publishing Group

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Otto Bock HealthCare GmbH

Stand Number: 43

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D-37115 Duderstadt
Germany
Tel: +49 5527 848-3411
Fax: +49 5527 848-1414
Email: healthcare@ottobock.de
Website: www.ottobock.com

All around the world, Ottobock stands for high-quality and technologically outstanding products and services. The goal of restoring mobility for people stands behind each and every Ottobock product. The conviction that quality of life is closely associated with a maximum of freedom and independence is a key concept throughout the company's 90-year history.



Parker Hannifin Corporation

Stand Number: 47 and 49

Human Motion & Control
Arnold-Jäger-Str. 1
74321 Bietigheim-Bissingen
Germany
Tel: +49 (0) 7142 351-0
Fax: +49 (0) 7142 351-293
Email: info@parker.com
Website: www.indego.com

Indego®, the advanced robotic exoskeleton from Parker Hannifin Corporation, enables spinal cord injury patients to stand and walk. It weighs only 12 kg and can be worn in a wheelchair. The proprietary control interface allows for smooth operation in harmony with natural human movement, guided intuitively by postural cues.



ReWalk Robotics

Stand Number: 51

Potsdamer Platz 11

10785 Berlin

Germany

Tel: +49 30 2589 5080

Fax: +49 30 2589 4100

Email: contact@rewalk.com

Website: www.rewalk.com

ReWalk Robotics mission is to fundamentally change the health and life experiences of individuals with spinal cord injuries.

The ReWalk Robotic Exoskeleton is a world-class walking system that will allow paraplegics to bring walking into their daily lives once again. It is the first and only exoskeleton cleared by FDA and with CE Mark in Europe.



The Royal Buckinghamshire Hospital

Stand Number: 11

Buckingham Road

Aylesbury, Buckinghamshire

HP19 9AB

United Kingdom

Tel: +44 (0) 1296 678800

Fax: +44 (0) 1296 437162

Email: info@royalbucks.co.uk

Website: www.royalbucks.co.uk

An independent rehabilitation Centre, offering bespoke packages of care for adults with: Spinal Cord Injury, Stroke, ABI and other neurological conditions.

We provide:

- Intensive rehabilitation programmes and follow-up care
- Outpatient therapies
- Complex long-term care
- Acute care and rehabilitation packages in partnership with Bupa Cromwell Hospital and Stoke Mandeville Hospital.





V!GO The Netherlands

Stand Number: 17

V!GO Arnhem
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V!GO Belgium

Campus Wetteren
Biezeweg 13
9230 Wetteren
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Fax: + 32 9 292 20 01

V!GO is a family-owned business with a focus on orthotics, prosthetics, orthopedic shoes and wheelchairs. V!GO is located in 3 countries, The Netherlands, Poland and Belgium. We have a great focus on custom made products. V! GO's mission is helping people moving on.

**Wellspect HealthCare**

Stand Number: 23

Aminogatan 1
SE-431 53 MÖLNDAL
SWEDEN
Tel: +46 (0) 31 376 40 00
Fax: +46 (0) 31 376 30 10
E-mail: export@wellspect.com
Website: www.wellspect.com

Wellspect HealthCare, the name behind the family of LoFrict catheters, is a leading global provider of innovative urological and surgical solutions. We passionately strive to make a real difference every day to everyone who needs our products and services. That is why every solution bearing the Wellspect HealthCare name carries with it the trust and dependability built on more than 30 years of life-improving performance.

**Wisepress Medical Bookshop**

Stand Number: 38

25 High Path

Merton Abbey

London

SW19 2JL

UK

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Fax: +44 (0) 20 8715 1722

Email: marketing@wisepress.comWebsite: www.wisepress.com

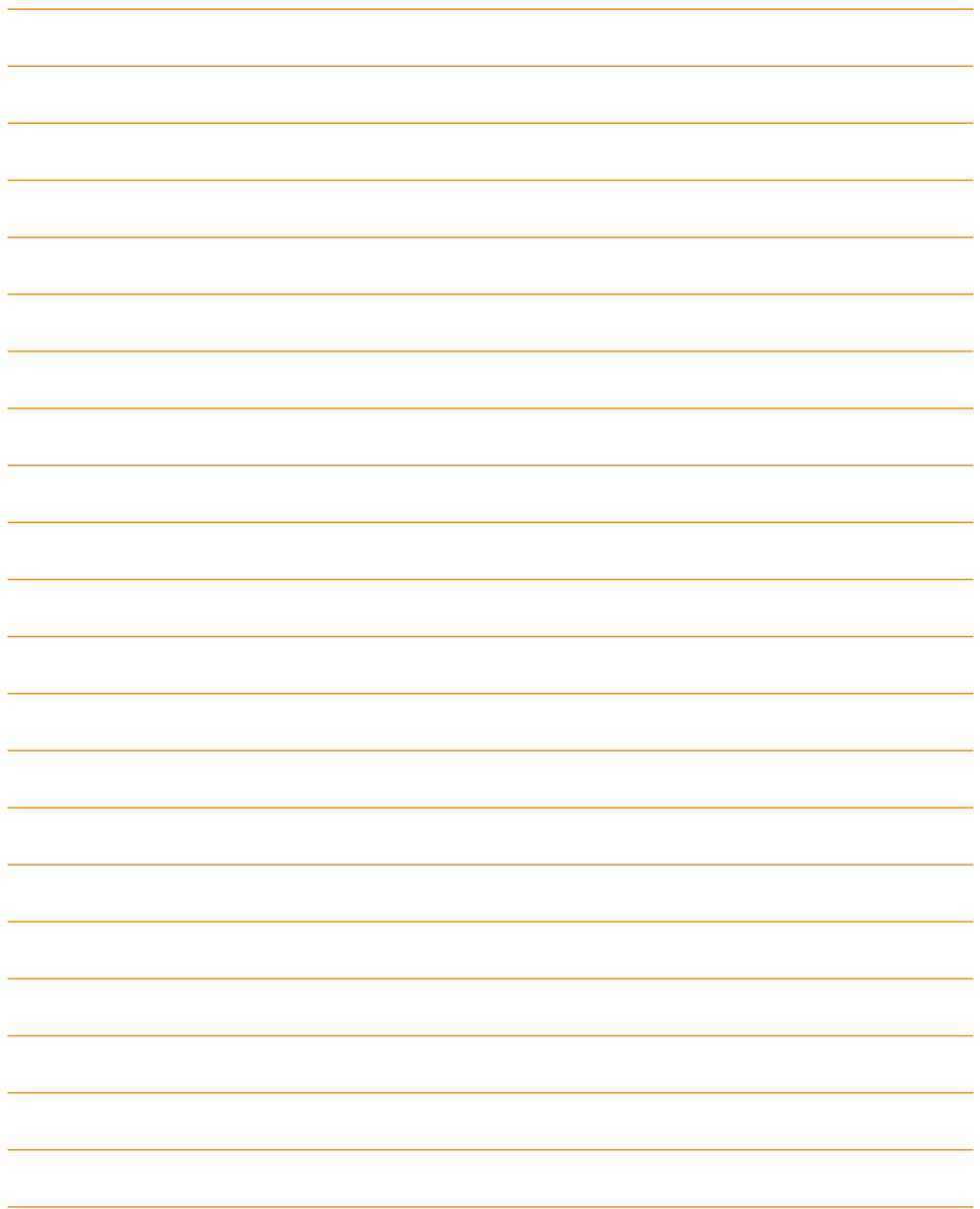
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Notes

This image shows a full page of blank white paper with horizontal orange ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for handwriting practice or general writing. There are no margins, text, or other markings on the page.









A series of 20 horizontal orange lines, evenly spaced, providing a template for handwriting practice.





A series of 20 horizontal orange lines, evenly spaced, providing a template for handwriting practice.



The 53rd

ISCoS Annual Scientific Meeting

2-4 September 2014

MECC, Maastricht, The Netherlands



Medtronic

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Prescribe A Lasting Change That
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With consistent and precise dosing that may provide long-term relief of severe spasticity, Medtronic ITB Therapy^{SM} may be the catalyst for lasting personal achievements¹.

1. Azouvi P, Mane M, Thiebaut JB, Denys P, Remy-Neris O, Bussel B. Intrathecal baclofen administration for control of severe spinal spasticity: functional improvement and long-term follow-up. Arch Phys Med Rehabil. 1996;77(1):35-39

* Intrathecal Therapy Baclofen

For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

www.medtronic.eu

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