



European network for  
best practice and research

## 22<sup>nd</sup> Annual RIMS Conference

Shaping the Future  
of MS Rehabilitation

4-6 May 2017  
Barcelona

[www.rims2017-barcelona.com](http://www.rims2017-barcelona.com)

in partnership with **Cemcat**   
Centre d'Esclerosi Múltiple de Catalunya

### Thursday 04/05/2017

11.30-15.30

#### **Teaching Course: Optimizing dysphagia management in MS** CEMCAT

##### OPTIMIZING DYSPHAGIA MANAGEMENT IN MS

11.30 - 11.40 Welcome and workshop introduction – Dr. I. Galán

11.40 - 12.00 Dysphagia in MS – speaker TBC

12.00 - 12.20 Clinical & Instrumental diagnosis of dysphagia – Dr. P. Clavé

12.20 - 12.40 Therapeutic approach to dysphagia - Dr. H. Bascuñana

12.40 - 13.00 Group discussion - Chair: Dr. I. Galán

13.00 - 13.30 LUNCH

13.30 - 14.00 Visit to Cemcat

14.00 - 15.30 Parallel Workshops

14.00 - 14.45 WORKSHOPS

WORKSHOP A: DYSPHAGIA MANAGEMENT VIA TELEPRACTICE IN MS

#### **Teaching Course:** **Clinical application of 3D gait analysis in MS** GUTTMANN

##### Speakers:

Dr. Bertram Müller (Clinical Scientist)

Dr. Josep Medina (Head of Functional

Rehabilitation Area)

Sra. Cristina Martin (Physiotherapist)

##### Schedule:

11:30 -11:45 Welcome and  
Introduction to Guttmann Institute

(aula)

11:45 - 12:05 Introduction of Clinical

Technology (aula)

12:15 - 13:00 Hands on Technology  
(lab) - Presentation of measuring

Systems and their methods

#### **Teaching Course:** **What do we know about neuropsychological rehabilitation in MS?** ALIMARA Llavorsi ("B")

11:30 - 12:30 Aims and approaches of neuropsychological rehabilitation in MS - presentation and discussion - Paivi Hämäläinen

12:30 - 13:30 How does neuropsychological rehabilitation act on neural

#### **Industry Sponsored MS Nurse Teaching Course**

ALIMARA Sitges ("D")

Session title and agenda can be found on the dedicated page for Industry Sponsored Teaching Courses

Dr. H. Bascuñana & Ms. Marta Renom  
WORKSHOP B: ELECTROSTIMULATION FOR DYSPHAGIA IN MS  
Dr. Rosa Terré & Ms B. González Rocamora

14.45 - 15.30 WORKSHOPS  
WORKSHOP A: DYSPHAGIA MANAGEMENT VIA TELEPRACTICE IN MS  
Dr. H. Bascuñana & Ms. Marta Renom  
WORKSHOP B: ELECTROSTIMULATION FOR DYSPHAGIA IN MS  
Dr. Rosa Terré & Ms B. González Rocamora

13:00 -14:00 Lunch  
14:00 -14:30 Visit Functional Rehab  
Area  
14:40 - 15:30 Clinical Analysis (aula)

level - Iris Penner

13:30 - 14:30 Lunch

14:30 - 15:30 Future of  
neuropsychological  
rehabilitation in research and  
clinical practice - discussion  
and short presentations from  
the participants

15:30 - 16:00

Transfer to the conference venue  
Bus Transport

16:00 - 19:00

<b>SIG Patient Autonomy: Empowering persons with MS: from information to coping initiatives</b> ALIMARA Rupit ("D1")	<b>SIG Communication &amp; Swallowing: Dysarthria in MS: What is already known?</b> ALIMARA Favencia ("H")	<b>SIG Bladder, Bowel &amp; Sexuality: Recommendations to manage bowel and sexual dysfunction In MS</b> ALIMARA Julia ("I")	<b>SIG Occupation: Shaping the future of MS rehabilitation through Occupational therapy</b> ALIMARA Montblanc ("D2")	<b>SIG Mobility: Balance: pitfalls and opportunities</b> ALIMARA Llavorsi ("B")	<b>SIG Psychology &amp; Neuropsychology: Sexual dysfunction in MS and its impact on patient's life - how to speak about - how to measure - how to treat</b> ALIMARA Augusta ("J")
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Agenda: Presentation of SIG recommendations for bowel management in pwMS -final version	16.00 WELCOME CHAIRS: Sofie Ferdinand, Jelka Jansa 16.10 DAPHNE KOS: Opportunities and challenges in current and future OT practice 16.40 PETRA WAGAN: Domestic work division and satisfaction in cohabiting
Presentation SIG agenda for the next two years:	

- Questionnaire about management of sexual dysfunction in Rehab Centers for PwMS
- In-between meeting with SIG Psychology and Neuropsychology about sexual dysfunction
- Recommendations for sexual management in PwMS

adults: Associations with life satisfaction and self-rated health".

17.00 HEIDI VISBY JACOBSEN: Changing paradigms in Occupational Therapy in Denmark

17.20 DISCUSSION

17.30 BREAK

17.45: MARIJKE DUPORTAIL & SOFIE FERDINAND: Occupational Therapy for PwMs in European Centres (from 1994 to 2001) and our future challenges.

18.05: JELKA JANSKA: Occupational Therapy Practice Models for PwMS

18.20: DISCUSSION

18.50: CONCLUSIONS

19:45 - 20:45

### **Welcome cocktail**

ALIMARA Foyer and Garden

Speaker(s): Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)

## **Friday 05/05/2017**

09:00 - 10:45

### **Session Chairs**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)

Jaume Sastre-Garriga, Prof, MS Centre of Catalonia (Cemcat)

09:00 - 09:15

### **WELCOME**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Speaker(s): Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)

Speaker(s): Jaume Sastre-Garriga, Prof, MS Centre of Catalonia (Cemcat)

09:15 - 10:00

### **OPENING LECTURE: MS: a 30 Years' Tale**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Speaker(s): Xavier Montalban, Prof

10:00 - 10:45

### **KEY NOTE 1: The Rehabilitation Treatment Taxonomy Framework**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Marcel Dijkers, Dr, Icahn School of Medicine at Mount Sinai, NY; Wayne State University School of Medicine, Detroit

10:45 - 11:15

### **Coffee Break**

ALIMARA Foyer, Cadaques, Llavorsi and Llívia (Posters, Exhibition & F&B - "Foyer, A, B, C")

11:15 - 12:45

### **BREAK-OUT 2: Innovative Outcome Measures**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Chair(s): Alessandra Solari, Dr, Istituto Neurologico Carlo Besta

Chair(s): Lluís Ramió-Torrenta, University of Girona, Hospital University Josep Trueta

Speaker(s): Giampaolo Brichetto, Dr, Italian MS Society Foundation

Speaker(s): Christian Enzinger, Prof Dr, Medical University of Graz

Lectures:

### **BREAK-OUT 1: Empowerment and Social Participation**

ALIMARA Sitges (BREAK OUT - "D")

Chair(s): Daphne Kos, Dr, KU Leuven

Chair(s): Päivi Hämäläinen, Prof, Finnish Neurosociety / Masku Neurological Rehabilitation Centre

Speaker(s): Paola Mosconi, Dr, IRCCS Mario Negri Institute

Speaker(s): Petra Wagman, Dr, Jönköping University, School of Health and Welfare

- Giampaolo Brichetto: 'Predicting MS with Patient Centred Outcomes (PCOs): a machine learning approach'
- Christian Enzinger: 'fMRI to monitor RHB interventions'

Lectures:

Oral Presentations (8 min):

- Paola Mosconi: 'Empowering through information'
- Petra Wagman: 'Balance in Life'
- Federica Corona: "Kinematic analysis of "hand-to-mouth" task in people with Multiple Sclerosis"
- Leena Maria Heikkola: Cognitive fatigue and language in MS – Quantitative and qualitative analysis of semispontaneous oral narratives
- (CANCELLED) Oiane Rilo: Maintenance of the default mode network functional connectivity through an integrative group-based cognitive rehabilitation in multiple sclerosis
- Morten Riemenschneider: Muscle fatigability in persons with multiple sclerosis – preliminary data.

Oral presentations (8min)

- Jana Pöttgen: Sexual dysfunctions in people with MS in relation to neuropsychiatric aspects and its psychological treatment: A scoping review
- Anne Christin Rahn: Audio-visual patient information materials on key study statistics for people with multiple sclerosis: results from a web-based randomised controlled trial and a qualitative pilot study
- Cathy Bulley: Scoping the Needs of Families and Carers of people living with Multiple Sclerosis (the SNOFLAC-MS study) : A Rapid Realist Review and Evaluation
- Astrid Karnøe Knudsen: Four themes to address when designing eHealth solutions for people with MS

12:45 - 14:00

### **Lunch & Poster Viewing**

ALIMARA Foyer, Cadaques, Llavorsi and Llivia (Posters, Exhibition & F&B - "Foyer, A, B, C")

14:00 - 14:30

### **Special Reports on RIMS Projects**

ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

Speaker(s): Daphne Kos, Dr, KU Leuven

Speaker(s): Alessandra Solari, Dr, Istituto Neurologico Carlo Besta

Lectures:

- Daphne Kos: E-Education: MSNurse Pro - Rehabilitation Module
- Alessandra Solari: Guideline on Palliative Care

14:30 - 15:15

### **Industry Sponsored Symposium**

ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

See the Satellite Symposium tab on the website-Programme for more details on the program (topic, speakers, ...)

15:15 - 16:45

### **Free Communications 1 (Platform Presentations and Q&A)**

ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

Chair(s): Jenny Freeman, Dr, University of Plymouth

Chair(s): Jelka Jansa, University Medical Centre Ljubljana

Oral presentations (8 min)

- Massimiliano Pau: Are static and dynamic balance abilities correlated in people with Multiple Sclerosis?
- Jacob Callesen: Reliability of the Six Spot Step Test
- Ilse Lamers: Responsiveness of upper limb outcome measures in people with multiple sclerosis: an European RIMS multi-center study.
- Davide Cattaneo: Disease-specific functional disorders and falls: comparisons between Multiple Sclerosis, Parkinson Disease and Stroke.
- Susan Coote: A preliminary investigation of sleep, symptoms and physical activity in inactive people with MS.
- Micaela Porta: Hourly trends of physical activity in people with Multiple Sclerosis
- Giuseppina Pilloni: Evaluation of Stroop color word test as cognitive task to investigate cognitive motor interference during walking in Multiple Sclerosis
- Nov Shalmoni: Spatio-temporal parameters of gait in teenagers with multiple sclerosis
- Asiye Tuba Ozdogar: Restless legs syndrome and related factors in persons with multiple sclerosis

### **Free Communications 2 (Platform Presentations and Q&A)**

ALIMARA Sitges (BREAK OUT - "D")

Chair(s): Anders Romberg, Dr, Masku Neurological Rehabilitation Centre

Chair(s): Jana Pöttgen, Dr, University of Medical Center, Hamburg

Eppendorf

Oral Presentations (8 min)

- Blathin Casey: Objective Physical Activity Levels in People with Multiple Sclerosis: A Meta-Analysis.
- Fanny Van Geel: Fatigue and motor fatigability in persons with multiple sclerosis: relation between different upper limb muscles, and with use of the arm in daily life
- Linda Renfrew: The impact of FES on gait speed in MS: a systematic review and meta-analysis
- Ludovico Pedullà: Developing an integrated core set for the evaluation of handwriting movement in people with multiple sclerosis
- Gesa Elena Pust: Influence of emotional distress factors on the severity of fatigue symptoms in patients with multiple sclerosis after induction of fatigue
- Adnan Heric-Mansrud: Cross-sectional study of pain and symptom clusters in MS
- Laura Comber: Medications and falls in Multiple Sclerosis
- Maxime Valet: Simplified protocols and indices of aerobic capacity among patients suffering from multiple sclerosis with mild neurological disability
- Yonca Zenginler: Comparison of the Effects of Two Different Balance Systems on the Balance, Functionality and Fatigue of Multiple Sclerosis Patients

16:45 - 17:30

### **Coffee Break & Poster Viewing**

ALIMARA Foyer, Cadaques, Llavorsi and Llivia (Posters, Exhibition & F&B - "Foyer, A, B, C")

17:30 - 18:15

### **EXCEMED Satellite Symposium**

ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

Gaining empowerment by reducing MS burden and costs

18:15 - 19:15 **RIMS General Assembly**  
ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

20:00 - 22:00 **RIMS Networking Dinner (not included in Conference Registration)**  
Restaurant: Can Travi Nou

## Saturday 06/05/2017

09:00 - 10:45 **Session Chairs**  
No location  
Chair(s): Päivi Hämäläinen, Prof, Finnish Neurosociety / Masku Neurological Rehabilitation Centre  
Chair(s): Christoph Heesen, Prof Dr, Universitätsklinikum Hamburg-Eppendorf

09:00 - 09:15 **WELCOME**  
ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

09:15 - 10:00 **KEY NOTE 2: Cognitive Reserve in MS**  
ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")  
James F. Sumowski, Prof

10:00 - 10:45 **KEY NOTE 3: Neurobiology of Rehabilitation Interventions: the Stroke Case**  
ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")  
Nick Ward, Dr

10:45 - 11:15 **Coffee Break**  
ALIMARA Foyer, Cadaques, Llavorsi and Llivia (Posters, Exhibition & F&B - "Foyer, A, B, C")

11:15 - 12:45 **BREAK-OUT 3: Innovative Rehabilitation Approaches**  
ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")  
Chair(s): Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)  
Chair(s): Vincent De Groot, Prof Dr, VUmc Amsterdam  
Speaker(s): Jan Mehrholz, Prof Dr, Klinik Bavaria Kreischau  
Speaker(s): Birthe Dinesen, Dr, Aalborg University  
Lectures:

- Jan Mehrholz: 'Innovative RHB approaches in stroke'
- Birthe Dinesen: 'Personalized telehealth in chronic diseases'

Oral Presentations (8min):

- Alessandra Solari: Randomized controlled trial of a home-based palliative approach for people with severe multiple sclerosis
- Susan Coote: Effect of a 10-week MS exercise programme on muscle strength and aerobic capacity in inactive people with MS
- Jens Bansi: High intensity endurance exercise increases cognitive functions and reduces peripheral matrix metalloproteinase - 2 levels in persons with MS - A randomized controlled trial

**BREAK-OUT 4: Employment**  
ALIMARA Sitges (BREAK OUT - "D")  
Chair(s): Ulrik Dalgas, Aarhus University  
Chair(s): Raul Pelayo, Dr, Guttmann Institute  
Speaker(s): Pedro Carrascal, Multiple Sclerosis Spain  
Speaker(s): Diane Playford, Dr, UCL London

Lectures:

- Pedro Carrascal: 'Global MS Employment Report 2016'
- Diane Playford: 'Vocational Rehabilitation'

Oral Presentations (8min):

- Dennis van Gorp: The value of work- correlates of sustained employability in workers with Multiple Sclerosis (MS)
- Claudia Marck: Change in employment status and associations with quality of life: a longitudinal international study of people with MS

- Elaine Coulter: Web-based physiotherapy for people moderately affected by Multiple Sclerosis: a feasibility multi-centre study
- Turhan Kahraman: The Multiple Sclerosis Work Difficulties Questionnaire: Translation and cross-cultural adaptation into Turkish and assessment of validity and reliability
- Ambra Mara Giovannetti: Characteristics of PwMS depending on the level of working difficulties: a cross sectional study using the MSQ-Job questionnaire

12:45 - 13:30

### Poster Express 1

ALIMARA Gran Salo Mediterranea (Plenary Room - "E+F+G")

Chair(s): Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)

Chair(s): Vincent De Groot, Prof Dr, VUmc Amsterdam

Oral Presentations (2min):

- Claudia Marck: Adherence and health outcomes after a multimodal lifestyle educational intervention in people with multiple sclerosis: three year follow-up
- Silvia Erika Kober: Train Your Brain: Neurofeedback for Cognitive Rehabilitation in Multiple Sclerosis
- Minna Salakari: Web-based self-care support for MS patients and their significant others
- Karin Riemann-Lorenz: Barriers and facilitators of long-term adherence to physical activity in MS – an international interview and survey study
- Rachel Dennett: Participants' Experience of a Web-based Physiotherapy Programme for people with Multiple Sclerosis (MS): Does it impact physical activity levels?
- Britt Normann: Effects of 6 weeks GroupCoreDIST compared to standard care on balance and walking in ambulant people with multiple sclerosis: A single blinded Randomised Controlled Trial
- Andrea Tacchino: The effect of yoga in people with Multiple Sclerosis
- Laura Bonzano: Is there a center for cognitive reserve in multiple sclerosis? The role of the right BA40 in cognitive performance
- Valeria Studer: Effects of an intensive, multidisciplinary inpatient rehabilitation program in subjects with multiple sclerosis with

### Poster Express 2

ALIMARA Sitges (BREAK OUT - "D")

Chair(s): Ulrik Dalgas, Aarhus University

Chair(s): Raul Pelayo, Dr, Guttman Institute

Oral Presentations (2min):

- Marie Ernst Christensen: Is there a relationship between MS-related fatigue and dietary intake - a systematic review.
- Rachel Dennett: Effectiveness and User Experience of Web-based Interventions for Increasing Physical Activity in People with Multiple Sclerosis: A Comprehensive Systematic Review
- Kamila Rasova: The effectiveness of Functional Electrical Stimulation on balance and gait in people with Multiple Sclerosis
- Jeanette Richwood: A modified version of the UK group-based fatigue management programme FACETS for an inpatient setting in Norway
- Kamila Rasova: Functional motor disorders: diagnostic and treatment options for patients with Multiple Sclerosis
- Yonca Zenginler: Evaluation of Oropharyngeal Dysphagia in Patients With Multiple Sclerosis
- Turhan Kahraman: The presence of musculoskeletal pain and its distribution among the body regions in persons with multiple sclerosis: a preliminary study
- Minna Salakari: Neurological nurses in need of modern tools for patient education and empowerment - Creating a nationwide web-based MS-Station
- Ingrid Galan: Singing in a choir in the Multiple Sclerosis Center of Catalonia (Cemcat): its value as a rehabilitation tool

- different levels of disability: preliminary data
- Asiye Tuba Ozdogar: Effects of a 6-month yoga program on physical and psychosocial status in persons with multiple sclerosis
- Asiye Tuba Ozdogar: The immediate effects of a patient education meeting on health locus of control of persons with multiple sclerosis and their family members
- Ambra Bisio: How do people with MS deal with changing directions during walking? A novel approach to evaluate gait disabilities in MS
- Denise Anastasi: Assessing dynamic stability in People with Multiple Sclerosis: development of new instrumented indexes
- Andrea Giordano: Prospective validation of a short version of MSQOL-54 (MSQOL-29): Preliminary findings

- Maarit Karhula: Quality of life and symptoms of multiple sclerosis predict participation and autonomy in persons with multiple sclerosis
- Chris Heesen: Understanding MRI imaging in MS (UMIMS) – development of a web-based education tool
- Andrea Giordano: Managing the transition to secondary progressive multiple sclerosis: a scoping review
- Dennis van Gorp: Personality differences in employed and unemployed patients with Multiple Sclerosis (MS)

13:30 - 14:30

### **Lunch & Poster Viewing**

ALIMARA Foyer, Cadaques, Llavorsi and Llivia (Posters, Exhibition & F&B - "Foyer, A, B, C")

14:30 - 15:15

### **Free Communications 3 (Platform Presentations and Q&A)**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Chair(s): Piet Eelen, NMSC Melsbroek

Chair(s): Ingrid Galán, MS Centre of Catalonia (Cemcat)

### **Free Communications 4 (Platform Presentations and Q&A)**

ALIMARA Sitges (BREAK OUT - "D")

Chair(s): Diane Playford, Dr, UCL London

Chair(s): Leonie Ruhaak, Nieuw Unicum, The Netherlands

Oral Presentations (8min):

Oral Presentations (8min):

- Massimiliano Pau: Smoothness of gait, but not spatio-temporal parameters, are altered in early stages of Multiple Sclerosis
- Ambra Mara Giovannetti: MS diagnosis: quality of life and adjustment
- Turhan Kahraman: Balance related explanatory factors of the six-minute walk test in persons with multiple sclerosis
- Anders Guldhammer Skjærbæk: Substantial discrepancy between patient reported and actual walking distance in persons with multiple sclerosis – A part of the Danish MS Hospitals Rehabilitation Study

- Gillian Quinn: Frequency and Consequences of Falls in MS
- Giancarlo Coghe: Impact of brain atrophy on walking in multiple sclerosis patients with low disability: a dual task study.
- Giampiero Merati: Post-exercise heart rate recovery and variability in patients with multiple sclerosis.
- Astero Constantinou: Factors associated with dysphagia in MS: A prediction model to assist in identification of people at risk

15:15 - 16:00

### **RIMS HONORARY LECTURE: "A 30 Years' Perspective on MS Rehabilitation"**

ALIMARA Gran Saló Mediterrània (Plenary Room - "E+F+G")

Chair(s): Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)

Speaker(s): Jürg Kesselring, Prof Dr, Rehabilitation Centre Valens Switzerland



16:00 - 16:45

**Awards, President Address, Presentation of Next Conference**

ALIMARA Gran Salo Mediterrania (Plenary Room - "E+F+G")

Peter Feys, Prof Dr, Biomedisch Onderzoeksinstituut (BIOMED)