



## SYMPOSIUM REPORT

Two years ago, we organized in Paris, France the first meeting dedicated to Surgery of the Spastic Upper Limb. This meeting was twofold: first to gather all specialists involved in the surgical care of the spastic upper limb, in order to exchange surgical experiences and outcomes, and clarify the indications of this highly specialized surgery. And second to inform all related specialists (physiatrists, physical and occupational therapists) of the surgical possibilities, which still remain widely ignored in many teams around the world. And for this purpose, we had designed an ambitious program dealing with all aspects of surgery of spasticity for the whole upper limb

The meeting was very successful, as attested by the participation of 280 attendees from 49 countries. Satisfaction was high, and participants expressed a large interest in continuing this program, both for scientific and educational purposes.

Our colleagues from Treviso, Italy, agreed to take up the challenge, with Dr PANCIERA chairing the meeting, and myself chairing the Scientific committee.

The Symposium took place in Venice-Mestre, on April 5-6, 2019.

Rather than covering the whole subject as we did the first time, we decided to focus on specific topics, namely spasticity of the shoulder and of the thumb, wrist arthrodesis, tendons transfers in the spastic upper limb, and the adult cerebral palsy patient. A large session was dedicated to rising techniques involving the nerves: selective neurectomies, and neurosurgical procedures. We also had a session on basic research, where internationally recognized researchers explained the status of their current research, and how little we know yet about the spastic muscle. And the last session was dedicated to how to set up a spastic clinic, with a noteworthy contribution from India.

Two lectures were a tribute to our host country and its great pioneer surgeons, with Bruno Battiston and Piero Raimondi respectively speaking about the major contributions of Giorgio Brunelli and Scaglietti to this surgery.

And two of our “giants” colleagues shared their great experience with us, Marie-Ann Keenan on heterotopic bone formation in head injury patients, and Michael Tonkin on the more surprising subject of spasticity in animals.

Attendance was higher than expected, with 251 participants from 38 countries. Despite the very tempting splendors of the nearby city of Venice, the participants were extremely assiduous until the very end of the meeting.

Their satisfaction, evaluated with an interactive voting system which was provided as an experiment by a local start-up, showed

This meeting could not have taken place without the enthusiastic and benevolent participation of 48 faculty members from 15 countries, and without the renewed support of the IFSSH which allowed us to book a larger meeting room, to waive registration fees for all faculty members, to help support 3 of the international speakers coming from overseas, and to our great satisfaction, to register 6 colleagues from low income countries at a reduced rate (which was identified as “sponsored by the IFSSH” on the registration site).

## FUTURE PERSPECTIVES

During a small business meeting at the end of the first day, the floor selected to make this event a regular one, probably on an every other year basis. Participants also clearly expressed the need for more educational content: Instructional courses, clinical cases discussions, and possibly clinical workshops.

So we hope to hold the next meeting in 2021, probably in Europe again, and the following one overseas in 2023.

## Attachments:

- Faculty list
- Final Budget
- Meeeting Pictures

<b>Faculty</b>		
<b>Name</b>	<b>First name</b>	<b>Country</b>
1 BATTISTON	Bruno	Italy
2 BINI	Nathalie	Italy
3 BOHN	Deb	USA
4 BOLDRINI	Paolo	Italy
5 CAMBON-BINDER	Adeline	France
6 CASERTA	Giuseppe	Italy
7 CERREL-BASO	Humberto Antoni	Italy
8 CONFORTI	Luigi	Italy
9 CONSENTINO	Elena	Italy
10 COULET	Bertrand	France
11 FITOUSSI	Frank	France
12 FONTAINE	Christian	France
13 GIANOLLA	Daniele	Italy
14 GIRSCH	Werner	Austria
15 GONG	Hyunsik	South Korea
16 GRAS	Mathilde	France
17 HAGEMANN	Christian	Germany
18 IP	Josephine	China
19 JAMES	Syrl	France
20 KEENAN	Mary Ann	USA
21 KREULEN	Mick	Netherlands
22 LAFFONT	Isabelle	France
23 LANDI	Antonio	Italy
24 LECLERCQ	Caroline	France
25 MARTINI	Laura	Italy
26 MERLINI	Lorenzo	France
27 MERTENS	Patrick	France
28 O'NEILL	Eder	Ireland
29 OZKAN	Turker	Turkey
30 PANCIERA	Paolo	Italy
31 PAROT	Catalina	Chile
32 PAULOS	Renata	Brazil
33 PERRUISSEAU-CARRIER	Anne	France
34 PICKARD	Simon	UK
35 PONTEN	EVA	Sweden
36 RAIMONDI	Piero	Italy
37 RHEE	Peter	USA
38 SARKIS	Samer	France
39 SCOTT	John	Australia
40 SMEULDERS	Mark	Netherlands
41 TONKIN	Michael	Australia
42 VALERO CUEVAS	Francisco	USA
43 VAN HEEST	Ann	USA
44 VUILLERMIN	Carley	USA

45 WALL	Lindley	USA
46 XU	Wendong	China
47 YUCESYOY	Can	Turkey
48 ZERBINATI	Paolo	Italy

**Invited Modertors**

BASSETTO	Franco	Italy
HENTZ	Vincent	USA

2<sup>nd</sup>

# Symposium on SURGERY OF THE SPASTIC UPPER LIMB

## > Spastic-Hand 2

April, 5<sup>th</sup> & 6<sup>th</sup> 2019

**Venice,**  
ITALY

**Chairman:**  
Paolo Panciera

**Final Announcement**



WITH THE SUPPORT OF



## Organizing Committee

Paolo PANCIERA  
Daniele GIANOLLA

## Scientific Committee

Caroline LECLERCQ  
Marybeth EZAKI  
Patrick MERTENS  
Marc SMEULDERS  
Michael TONKIN

## Faculty List

BALESTRIERI Fabrizio (Italy)	LECLERCQ Caroline (France)
BATTISTON Bruno (Italy)	MARTINI Laura (Italy)
BHARDWAJ Praveen (India)	MERLINI Lorenzo (France)
BINI Nathalie (Italy)	MERTENS Patrick (France)
BOHN Deborah (USA)	ONEILL Eder (Ireland)
BOLDRINI Paolo (Italy)	OZKAN Turker (Turkey)
CAMBON-BINDER Adeline (France)	PANCIERA Paolo (Italy)
CASERTA Giuseppe (Italy)	PAROT Catalina (Chile)
CERREL-BAZO Humberto Antonio (Italy)	PAULOS Renata (Brazil)
CONFORTI Luigi (Italy)	PERRUISSEAU-CARRIER Anne (France)
COSENTINO Elena (Italy)	PICKARD Simon (UK)
COULET Bertrand (France)	PONTEN Eva (Sweden)
DI MARI Pietro (Italy)	RAIMONDI Piero (Italy)
FITOUSSI Frank (France)	RHEE Peter (USA)
FONTAINE Christian (France)	SARKIS Samer (France)
GIANOLLA Daniele (Italy)	SCOTT John (Australia)
GIRSCH Werner (Austria)	SMEULDERS Mark (Netherlands)
GONG Hyunsik (South Korea)	TONKIN Michael (Australia)
GRAS Mathilde (France)	VALERO CUEVAS Francisco (USA)
HAGEMANN Christian (Germany)	VAN HEEST Ann (USA)
IP Josephine (China)	VUILLERMIN Carley (USA)
JAMES Syril (France)	WALL Lindley (USA)
KEENAN Mary Ann (USA)	XU Wendong (China)
KREULEN Mick (Netherlands)	YUCESoy Can (Turkey)
LAFFONT Isabelle (France)	ZERBINATI Paolo (Italy)
LANDI Antonio (Italy)	

### > GENERAL ORGANIZATION



Tel. : +33 (0)4 91 94 54 72  
contact@symposium-spastic-hand.com



Tel. : +39 030 290326  
info@studioprogress.it

# 2<sup>nd</sup> Symposium on SURGERY OF THE SPASTIC UPPER LIMB > **Spastic-Hand 2**



Dear friends and colleagues,

The first international Symposium on Surgery of the Spastic Upper Limb, held in Paris a year ago (March 9-10, 2017) hosted the world's most eminent specialists of both adult and children upper limb spasticity. It was very well received, as more than 280 participants attended from 46 countries.

Many of you have expressed the hope that the event could be repeated, for more opportunities to learn, and share experiences and new ideas.

I am very grateful to our colleagues from Treviso (Italy), who have decided to host the second International Symposium in the wonderful city of Venice, next 5-6 April 2019. The program will focus on several challenging aspects of the surgical treatment, through lectures, round tables and extensive discussion between the experts and the floor. Welcome to Venice!

**Caroline Leclercq**

*Chairman of the First International Meeting*

Dear colleagues,

We decided to take up the challenge to organise the second International Meeting dedicated to Surgery of the Spastic Upper Limb. It will take place in Venice (Italy) on April 5-6, 2019. Save the date!

The scientific content is the highest priority for the congress: international experts will bring their contribution on indications, conservative treatment and above all surgical treatment, with a lot of opportunities for discussions.

But we would also like participants to take advantage of the unique beauty and magic of the host city. We will do our best to make this congress unforgettable, and not only from the scientific point of view.

Whether surgeon, physiatrist, neurologist, specialized nurse, occupational therapist or physiotherapist, you are welcome, and if you feel you could contribute to the scientific content of the meeting, please let us know.

**Paolo Panciera**

*panciera.spasticity@gmail.com*

**Daniele Gianolla**



8:00 // **Foreword** > P. Panciera (Italy)

8:05 // **Introduction**

- Epidemiology of spasticity in Italy > P. Boldrini (Italy)

8:20 // **Basic science: what is new?**

- What basic questions would need answering from the clinical point of view? > M. Smeulders (NL)
- The pathology of the muscle in CP - how can it affect prognosis and treatment results > E. Ponten (Sweden)
- Mechanics of spastic muscle and its surgical treatment: intraoperative experiments and mathematical modeling > C. Yucesoy (Turkey)
- Neuromorphic simulation of neural control of afferented muscles in healthy and pathological conditions > F. Valero-Cuevas (USA)
- Spastic and dystonic treatment: gene therapy, Myth or reality? > S. James (France)

*Discussion*

9:30 // **Botulinum toxin and surgery / decision making**

- Influence of botulinum toxin on my decision making > C. Vuillermin (USA)
- Failure of BOTOX: Why? > E. Cosentino (Italy)
- Botulinum Toxin for preoperative evaluation in the treatment of upper limb spasticity: personal experience on 172 cases > F. Balestrieri, L. Martini (Italy)
- Botox injection as a prediction of surgical outcome of upper limb reconstruction in cerebral palsy patients > J. IP (Hong Kong)

*Discussion*

- Role of dynamic EMG > M. Cosma, G. Caserta (Italy)
- Cinematic modifications after surgery or toxin injection in the upper limb > F. Fitoussi (France)

*Discussion*

10:15 // **Free papers**

- Orthotic management in the prevention of contractures in infancy > E. O'Neill (Ireland)
- The role of medications in the treatment of pain related to spasticity > P. Di Mari (Italy)
- A 3 year cohort of Upper Limb Spasticity surgeries, with validated pre and post-operative measures, demonstrates extraordinary improvement in important outcomes for the patient and carers > J. Scott (Australia)

*Discussion*

10:40-11:10 // **Coffee break**

11:10 // **LECTURE**

- Spasticity in tetraplegia > H.A. Cerrel-Bazo (Italy)

11:20-12:40 // **The spastic shoulder**

- Classification of spastic shoulders and long term follow-up > A. Landi (Italy)
- Classification n°2 > B. Coulet (France)
- Evaluation and decision making > M.A. Keenan (USA)
- Lengthening and tenotomies > P. Zerbinati (Italy)
- Selective neurectomies around the shoulder > F. Fitoussi (France)
- Motor innervation of the subscapularis muscle, and application to botulinum injection and selective neurectomy > C. Fontaine (France)
- Biceps Suspension Procedure for Painful Inferior Glenohumeral Subluxation > M.A. Keenan (USA)
- Shoulder spasticity in extension > C. Fontaine (France)
- Spastic shoulder and degenerative arthritis > B. Coulet, I. Laffont (France)

*Discussion*

12:40 // **LECTURE**

- Heterotopic bone formations in the upper limb of the brain injury patient > M.A. Keenan (USA)

*Discussion*



13:00-14:00 // Lunch break

14:00 // LECTURE

- The spastic biceps: friend, or enemy? > S. Pickard (UK)

14:15 // Are tendon transfers indicated in spastic patients?

- Is the literature contributive? > C. Vuillermin (USA)
- Use of Motion Lab in Pre-operative Assessment for Tendon Transfer Surgery > A. Van Heest (USA)
- Face to face: Tendon transfers in spastic patients: art or science...? > M. Kreulen (Netherlands), M. Tonkin (Australia)

*Discussion*

15:00 // LECTURE

- Professor Scaglietti and flexor muscles release > P. Raimondi (Italy)

15:15 // The wrist : to fuse, or not to fuse ?

- The role and limitations of tendon transfers for wrist flexion deformities > P. Rhee
- Wrist fusion in adolescents > F. Fitoussi (France)
- Wrist fusion in athetoid patients > H. Gong (South Korea)
- Medio-carpal wrist fusion > C. Parot (Chile)
- The extensor theory > S. Pickard (UK)

*Discussion*

15:50-16:20 // Coffee break

16:20 // The spastic thumb

- The spastic thumb: analysis of the deformities and classification > M. Tonkin (Australia)
- The spastic thumb- an unsolved dilemma > A. Van Heest (USA)
- Fusion of the thumb CP CMC joint > L. Wall (USA)
- Stabilization of the thumb MP joint > M. Tonkin (Australia)
- EPL Rerouting > M. Kreulen (NL)
- Hyperselective neurectomy of the thumb spastic muscles: branches of the ulnar nerve and FPL > N. Bini (Italy)
- Anatomy of the motor branch of the median nerve to the thenar muscles > E. Pickard, E. Bolt (UK)

*Discussion*

17:10 // The technical corner: new favorites ?

- Multilevel surgery in severe contractures of the upper limb: the shark attack > W. Girsch (Austria)
- Single event multi-site surgery > P. Rhee (USA)
- Arthroscopic shoulder suspensionplasty > B. Coulet (France)
- Management of the severely spastic elbow: Patient specific approach for optimizing outcomes > P. Rhee (USA)
- The lateral approach to the elbow, technical discussion > S. Pickard Simon (UK)
- Tips of Brachioradialis re-routing: Operative Technique > T. Ozkan
- An algorithmic approach to management of hand deformities: Balancing the spastic extrinsic and intrinsic finger flexors > P. Rhee (USA)

*Discussion*

18:00-18:15 // Business meeting





▶ 8:30 // LECTURE

- Professor Giorgio BRUNELLI and "Hyponeurotization" > B. Battiston (Italy)

▶ 8:45 // Nerve procedures

8:45 - **Neurosurgery:**

a) **Neuromodulation:**

- Intra-thecal baclofen in children > C. Hagemann (Germany)
- Neurostimulation > S. James (France)

b) **Ablative procedures:**

- Selective ablative procedures: spinal cord / DREZ > P. Mertens (France)

*Discussion*

9:15 - **Peripheral nerves:**

- Complete neurectomy of pronator teres > F. Fitoussi (France)
- Principles and mode of action of selective neurectomy > P. Mertens (France)
- Anatomy of the motor nerves in the Upper Limb:
  - Musulo-cutaneous nerve > A. Cambon (France)
  - Median nerve > C. Parot (Chile)
  - Ulnar nerve > R. Paulos (Brazil)
  - Radial nerve > L. Merlini (France)
- Surgical technique of HSN > M. Gras (France)
- Hyper Selective Neurectomy: a prospective study > A. Perruisseau-Carrier, C. Leclercq (France)
- HSN+ Muscle lengthening > P. Panciera (Italy)
- Contralateral C7 root transfer > X. Wendong (China)

*Discussion*

▶ 10:25 // LECTURE

- Spasticity in animals ? Really ? > M. Tonkin (Australia)

▶ 10:45-11:15 // Coffee break

▶ 11:15 // Cerebral Palsy and adulthood

- Principles of treatment > M. Tonkin (Australia)
- Lessons from a clinical series > M. Gras (France)
- Wrist fusion in adult CP patients > A. Van Heest (USA)
- Upper limb surgery in adult CP patients: is the surgical goal achieved? > L. Conforti, N. Bini, B. Battiston (Italy)

*Discussion*

▶ 11:50 // How to set up a spastic upper limb clinic

- Adolescent and young adult's spastic upper limb evaluation: A suggestion for a battery of tests > S. Sarkis (France)
- Multidisciplinary clinic for spasticity of the upper limb; A two year experience > D. Bohn (USA)
- Setting up a multidisciplinary clinic for spastic upper limb > D. Gianolla (Italy)
- Surgery for Spastic Upper Limb in Developing Countries > P. Bhardwaj (India)

*Discussion*

▶ 12:30-13:30 // Lunch - End of the Symposium



## > GENERAL ORGANIZATION



**eventime**

Tel. : +33 (0)4 91 94 54 72

[contact@symposium-spastic-hand.com](mailto:contact@symposium-spastic-hand.com)



**Studio  
Progress**

Tel. : +39 030 290326

[info@studioprogress.it](mailto:info@studioprogress.it)



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