

Preliminary Program

BRUSSELS INTERNATIONAL SYMPOSIUM

**ADVANCES IN OBJECTIVE
ASSESSMENT OF
HAND/UPPER EXTREMITY
FUNCTION AND OUTCOME**

Genval/Brussels, Belgium
April 20-21, 2001



Program Director

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Meeting place

Château du Lac
Avenue du Lac, B-1332 Genval, Belgium
Tél. +32 2 655 71 11 - Fax +32 2 655 74 44
E-mail : seminars.cdl@martins-hotels.com

AIMS AND FORMAT

In the last decades, much progress has been achieved in the surgical treatment of various traumatic, neoplastic, neurological and degenerative disorders of the upper limb. However, the probable benefits of these operations should be evaluated, taking into account the natural history of each disorder. It is also essential to determine which procedure provides the best and most reliable results. To answer these questions, our clinical studies should be prospective and randomized, and an objective scientific assessment of the short-term and long-term results is essential. Functional evaluation of the upper limb is also an important issue in rehabilitation, for example in athletes. In neurological conditions, for example spinal cord injuries, it is essential to determine the possibilities of functional restoration and the indications of palliative or orthotic treatment. Kinematic evaluation is also important for quantifying exposure to physical stress in repetitive manual work or in sports.

Traditional clinical evaluation includes subjective evaluation of pain, return to social, professional and recreational activities, patient satisfaction, and objective examination of stability, trophicity, and measurement of range of motion, strength, and sensibility. The clinical examination may be refined by evaluating the performance of a set of tasks defined by the clinician or by the patient himself, allowing the calculation of a dexterity score. The collection of these clinical data and the calculation of the various scores is now facilitated by the use of dedicated computerized programs. The choice of evaluation score may provide a pessimistic or optimistic appreciation of the result, depending on the chosen criteria. In addition to this clinical examination, and to imaging or neurophysiological evaluations, electrogoniometers, electromagnetic or optic trackers, video systems, strain-gauge equipped-pinch and grasp-meters, isokinetic and isometric dynamometers and work simulators are now available for the objective assessment of our patients, but are not widely used. The data provided by these devices could however be extremely helpful, especially in clinical research to evaluate with great sensitivity and reliability kinematics, strength, performance and endurance deficits. In addition, the information may be used for simulation of motion, for evaluation of ergonomic posture, or for fundamental biomechanical research. In contrast to these sophisticated evaluation tools, many clinicians insist now on the outcome evaluation based on questionnaires, assessing the general quality of life and the pos-

sibility for the patient to perform the various tasks of daily living.

The primary goals of this symposium, gathering together in a first-class resort close to Brussels anatomists, engineers, orthopedic surgeons, plastic surgeons, hand surgeons, physiotherapists and medicolegal experts, are to analyze on a consensual basis the various techniques of objective evaluation of the upper extremity, from the shoulder to the hand, and to define the best methods of outcome assessment.

SPECIFIC AIMS

- To summarize the current state of knowledge on the objective assessment of the upper extremity, including data interpretation on the basis of normal data bases, of hand dominance, positioning during testing, and of measurements' reproducibility ;
- To evaluate the costs and assessment times of the various methods ;
- To discuss the influence of patients lost to follow-up on the overall results of a specific procedure ;
- To formulate on these bases recommendations to the medical community with respect to the outcome measurements after shoulder, elbow, wrist and hand surgery and/or during rehabilitation, including for non-operative affections ;
- To establish the most appropriate methods for objective medicolegal assessment of posttraumatic upper limb deficits ;
- To review new evaluation devices and softwares ;
- To discuss unsolved problems and potential solutions based on current clinical and biomechanical knowledge ;
- To explore future directions of investigations.

INTERNATIONAL FACULTY

<i>P. C. Amadio, Rochesters, MN, USA</i>	<i>J.P. Moermans, Brussels, Belgium</i>
<i>Y. Andrienne, Brussels, Belgium</i>	<i>D. Mouraux, Brussels, Belgium</i>
<i>E. Brassinne, Brussels, Belgium</i>	<i>Ph. Putz, Brussels, Belgium</i>
<i>F. Burny, Brussels, Belgium</i>	<i>P. Rémy, Brussels, Belgium</i>
<i>A. Carlier, Liège, Belgium</i>	<i>Ch. Robert, Brussels, Belgium</i>
<i>L. De Smet, Leuven, Belgium</i>	<i>M. Rooze, Brussels, Belgium</i>
<i>P. M. Dugailly, Brussels, Belgium</i>	<i>P. Salvia, Brussels, Belgium</i>
<i>V. Feipel, Brussels, Belgium</i>	<i>F. Schuind, Brussels, Belgium</i>
<i>P. Hoffmeyer, Geneva, Switzerland</i>	<i>T. Smits, Brussels, Belgium</i>
<i>M. Hoogmaertens, Leuven, Belgium</i>	<i>D. Stoffelen, Lincolnshire, UK</i>
<i>A. I. Kapandji, Longjumeau, France</i>	<i>J. L. Thonnard, Brussels, Belgium</i>
<i>L. Kinnen, Brussels, Belgium</i>	<i>J. Cl. Wautrecht, Brussels, Belgium</i>

Daily Program at a Glance

April 19 (Thursday)	April 20 (Friday)	April 21 (Saturday)
08.00	Registration	Clinical Examination and Use of Questionnaires to Assess Upper Extremity Functional Outcome (1)
09.00	An Introduction to the Objective Assessment of Hand/Upper Extremity Function and Outcome	
09.25		Coffe break
09.45		Clinical Examination and Use of Questionnaires to Assess Upper Extremity Functional Outcome (2)
10.55		Clinical Applications (1)
11.00	Coffe break	
11.20	Kinematic Evaluation of the UpperExtremity	
11.55		Lunch
12.40	Lunch and health break	
13.00		Clinial Applications (2)
14.30	Upper Extremity Strenght Evaluation (1)	
15.35	Coffe break	
15.40		Medicolegal Assessment
15.55	Upper Extremity Strenght Evaluation (2)	
16.00	Registration	
16.05		Objective Assessment of Hand/Upper Extremity Function and Outcome General Conclusions
16.50	Objective Assessment of Bone Healing and Vascular Status	
17.00		Health break
17.40	The Hand, Seeing is Believing	
18.00	Cocktail in the Château	Social program
19.30	Free Evening	
20.00		Banquet (optional)

Program

Thursday, April 19, 2001

16.00-19.30 Registration

Friday, April 20, 2001

08.00 Registration - Coffee and croissants

09.00-11.00 **Session 1 : An introduction to the Objective Assessment of Hand/Upper Extremity Function and Outcome**

(Moderators : F. Burny, J. L. Thonnard)

09.00 **Opening Address**
F. Schuind (Brussels, Belgium)

09.10 **Value of Constant Score in Subacromial Impingement**

Ph. Tollet, L. Fabeck, R. Baillon, M. Gris, F. Schuind (Brussels, Belgium)

09.20 **Practical Use and Limitations of Clinical Scores : Example, Wrist, Evaluation after Treatment of Kienböck's Disease**

S. Eslami, P. Ledoux, F. Schuind (Charleroi, Brussels, Belgium)

09.30 **The Need of Prospective, Randomized Studies in Orthopaedics and Traumatology**

M. Hoogmaertens (Leuven, Belgium)

09.40 **How to Measure Impairment of the Upper Limb ?**

J. L. Thonnard (Brussels, Belgium)

10.00 **Functional Assessment of the Impaired Hand**

J.P. Moermans (Brussels, Belgium)

10.20 **Pejorative Effects of Repetitive Technical Examinations on Hand and Wrist Assessment**

L. Kinnen (Brussels, Belgium)

10.40 **Discussion**

11.00 Coffee break and visit of the Commercial Exhibition

11.20-12.40 **Session 2 : Kinematic Evaluation of the Upper Extremity**

(Moderators : M. Rooze, A. Carlier)

11.20 **Goniometric Evaluation of the Upper Extremity and Normal Values**

P. Salvia, Ph. Lubanzadio, Th. Demeesmaker, P. Klein, V. Feipel, M. Rooze (Brussels, Belgium)

11.40

Discussion

11.45

High Spatial Resolution Electromyography and Video-Assisted Movement Analysis in Children with Obstetric Brachial Plexus Palsy
C. Disselhorst, J. Bahm (Aachen, Germany and Brussels, Belgium)

11.55

Discussion

12.00

Pseudo Dynamic Investigation of the Wrist using 3D-CT Reconstruction. Clinical Applications and Relation between Kinematics and Morphology
V. Feipel, M. Dourdoufis, M. Rooze (Brussels, Belgium)

12.20

Discussion

12.25

Evaluation of the Functional Range of Motion of the Wrist
D. Nelson (San Francisco, CA, USA)

12.35

Discussion

12.40

Lunch, health break and visit of the Commercial Exhibition

14.30-15.35

Session 3 : Upper Extremity Strength Evaluation (1)
(Moderators : D. Mouraux, Y. Andrienne)

14.30

Isokinetic and Isometric Dynamometric Evaluation of the Upper Extremity
E. Brassinne, P. Rémy, Y. Andrienne (Brussels, Belgium)

14.50

Discussion

14.55

Isokinetic Strength Testing after Neer Repair for Shoulder Dislocation
N. Riand, P. Clayson, J. L. Ziltener, P. Hoffmeyer (Geneva, Switzerland)

15.15

Discussion

15.20

Grip Force in the Objectivation and Ourcome of "Tennis Elbow"
L. De Smet (Leuven, Belgium)

15.30

Discussion

15.35-15.55 Coffee break

15.55-16.50

Session 4 : Upper Extremity Strenght Evaluation (2)
(Moderators : E. Brassinne, Ph. Putz)

15.55

Use of the Dynamometer for Assessment of Hand Function
A. Carlier (Liège, Belgium)

16.15	Discussion	08.45	Discussion	11.20	Discussion
16.20	Is there a Correlation between Mobility of the Thumb and Mechanical Hand Function L. De Smet (Leuven, Belgium)	08.50	On the Use of the DASH Questionnaire, Including New Information on Normal Values P. C. Amadio (Rochester, MN, USA)	11.25	Do Bipolar Implants Provide Adequate Stability for Radial Head Arthroplasty ? S. Pomianowski, B. F. Morrey, P. G. Neale, M. J. Park, S. W. O'Driscoll, K. N. An (Rochester, MN, USA)
16.30	Discussion	09.05	Cross-Cultural Adaptation into French of the Dash Outcome Measure	11.35	Discussion
16.35	Measurement of Finger Stiffness in Algodystrophy J. Field (Gloucestershire, United Kingdom)	09.15	Th. Dubert, Ph. Voche, Ch. Dumontier, A. Dinh (Paris, France)	11.40	Isokinetic Evaluation of the Wrist and Elbow P. Rémy, E. Brassinne, P.M. Dugailly (Brussels, Belgium)
16.45	Discussion	09.25	Discussion	11.50	Discussion
16.50-17.40	Session 5 : Objective Assessment of Bone Healing and Vascular Status (Moderators : M. Hoogmaertens, F. Schuind)	09.45-10.55	Session 8 : Clinical Examination and Use of Questionnaires to Assess Upper Extremity Functional Outcome (2) (Moderators : P. C. Amadio, T. Smits)	11.55	Lunch and visit of the Commercial Exhibition
16.50	Biomechanical Evaluation of Fracture Healing using Instrumented External Fixation F. Burny, M. Donkerwolcke, F. Moulart (Brussels, Belgium)	09.45	Predictors of Outcome following Distal Radius Fracture A. Bialocerkowski, K. Grimmer, G. Bain (Adelaide, Australia)	13.00-15.40	Session 10 : Clinical Applications (2) (Moderators : L. De Smet, V. Feipel)
17.10	Discussion	09.55	Discussion	13.00	Objective Functional Evaluation of Wrist Fractures D. Stoffelen (Lincolnshire, United Kingdom)
17.15	Occupational Vascular Disorders of the Upper Extremities J. Cl. Wautrecht (Brussels, Belgium)	10.00	Scoring System in the Assessment of Clinical Severity of Reflex Sympathetic Dystrophy A. Zyluk, J. Bruske, P. Prowans, M. Bednarski (Szczecin, Poland)	13.20	Discussion
17.35	Discussion	10.10	Discussion	13.25	Development of an Objective Wrist Function Assessment Instrument D. Nelson (San Francisco, CA, USA)
17.40-17.55	Session 6 : The Hand, Seeing is Believing (Moderators : L. Kinnen, Ch. Robert)	10.15	Evaluation of the Hand T. Smits, Ch. Robert, D. Mouraux (Brussels, Belgium)	13.35	Discussion
17.40	The Hand, Seeing is Believing G. M. van Meerwijk (Amsterdam, The Netherlands)	10.35	Discussion	13.40	Electrogoniometric and Radiological Evaluation of STT Arthrodesis P. Salvia, F. Schuind, V. Feipel, M. Rooze (Brussels, Belgium)
17.50	Discussion	10.40	The Detection of Subtle Extensor Tendon Tethering after Injury to the Hand M. Kulkarni, S. B. Harris, D. Elliot (Broomfield, United Kingdom)	13.50	Discussion
18.00-19.30	Cocktail in the Château	10.50	Discussion	13.55	Development of a Patient-Focused Wrist Outcome instrument A. Bialocerkowski, K. Grimmer, G. Bain (Adelaide, Australia)
19.30	Free evening	10.55-11.55	Session 9 : Clinical Applications (1) (Moderators : P. Salvia, D. Stoffelen)	14.05	Discussion
Saturday, April 21, 2001		10.55	How to Measure the Person-Environment Interaction in Manual Activities ? An Application in Chronic Stroke M. Penta (Brussels, Belgium)	14.10	Value of Clinical Provocative Tests in Carpal Tunnel Syndrome L. De Smet (Leuven, Belgium)
08.00-09.25	Session 7 : Clinical Examination and Use of Questionnaires to Assess Upper Extremity Functional Outcome (1) (Moderators : A. I. Kapandji, J. P. Moemans)	11.05	Discussion	14.25	Discussion
08.00	Clinical Evaluation of the Upper Limb Joints A. I. Kapandji (Longjumeau, France)	11.10	Isokinetic Assessment of the Shoulder P.M. Dugailly, D. Mouraux, Ch. Robert (Brussels, Belgium)	14.30	A New Model Instrument for Clinical Assessment after Nerve Repair B. Rosén, G. Lundborg (Malmö, Sweden)
08.20	Discussion			14.40	The DASH : a Useful Assessment Method to Evaluate Functional Recovery Following Median and Ulnar Nerve Injuries J. B. Jaquet, T. A. R. Schreuders, S. Kalmijn, P. D. L. Kuypers, S. E. R. Hovius (Rotterdam, The Netherlands)
08.25	Use and Abuse of Questionnaires to Assess Functional Outcomes P. C. Amadio (Rochester, MN, USA)				

- 14.50 **Discussion**
- 14.55 **L Two Pin Procedure for the Fifth Metacarpal Neck Fracture : Clinical Assessment of the Results**
F. Kermad, J. F. Cazeneuve, D. Berlemont (Laon, France)
- 15.05 **Discussion**
- 15.10 **The Severe Burned Hand Evaluated by EVAL®**
J. Bahm (Brussels, Belgium)
- 15.20 **Discussion**
- 15.25 **Anatomo-Clinical Assessment of Trigger Finger**
K. Drossos, N. Nagy, M. Remmelink, J. L. Pasteels, F. Schuind (Brussels, Belgium)
- 15.35 **Discussion**
- 15.40-16.05 **Session 11 : Medicolegal Assessment**
(Moderators : P. C. Amadio, Y. Andrienne)
- 15.40 **Principles of Compensation of Upper Extremity Traumas in Belgium**
Ph. Putz (Brussels, Belgium)
- 16.00 **Discussion**
- 16.05-17.00 **Session 12 : Objective Assessment of Hand/ Upper Extremity Function and Outcome General Conclusions**
(Moderator : P. C. Amadio, F. Schuind)
- 16.05 **Ten Questions to the Floor and the Faculty**
- 16.50 **Summary and Conclusions**
F. Schuind (Brussels, Belgium)
- 17.00 **Health Break (sports or access to the center of fitness)**
- 18.00 **Social Program : discovery of downtown Brussels, gueuze or beer in Toone estaminet with visit of the museum and traditional puppet show followed by a fine banquet in Brussels (optional)**

Congress Information

Venue

Château du Lac, avenue du Lac, 87
B-1332 Genvall, Belgium
Tel. : + 32 2 655 71 11 - Fax + 32 2 655 74 44
E-mail : seminars.cdl@martins-hotels.com

Language

English.

Information for Presenters

The allocated time of presentation should be strictly respected (10 min. for most free papers).

The standard presentation format is now by computer. The audiovisual projection system in the meeting room will include a Personal Computer (PC) along with PowerPoint 97 or 2000 for Windows and a standard CD-ROM drive. Single slide projection or overhead projection are also available, but not recommended. Request to use any equipment other than this must be arranged at the presenter's expense.

Each presenter should check with the technician 20 min. before the session, and introduce himself to the moderators of the session. The technician will be available in the meeting room from 07.00 on both congress days.

Accommodation

At the quiet and beautiful 'Château du Lac', 15 km outside Brussels. Sports facilities (tennis, golf practice, swimming pool) will be available during leisure time.

Free access available at the 'John Harris Fitness Centre' for participants accommodated at the Château.

When contacting the hotel, please state that you are attending the "Upper Extremity Symposium" to receive the reduced rate for the dates April 19 through April 22.

Indicative rate : SINGLE 471 € – included : 3 nights bed and breakfast, Château du Lac or Manoir du Lac (same location), access to sports facilities.

Address : Château du Lac, avenue du Lac, 87
B-1332 Genvall, Belgium
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Continuing Medical Education Credit

Belgian Accreditation Council, 120 points
(4148.0019, accreditation type 2, 120 U.F.C./N.E.).
A certificate will be provided to interested participants.

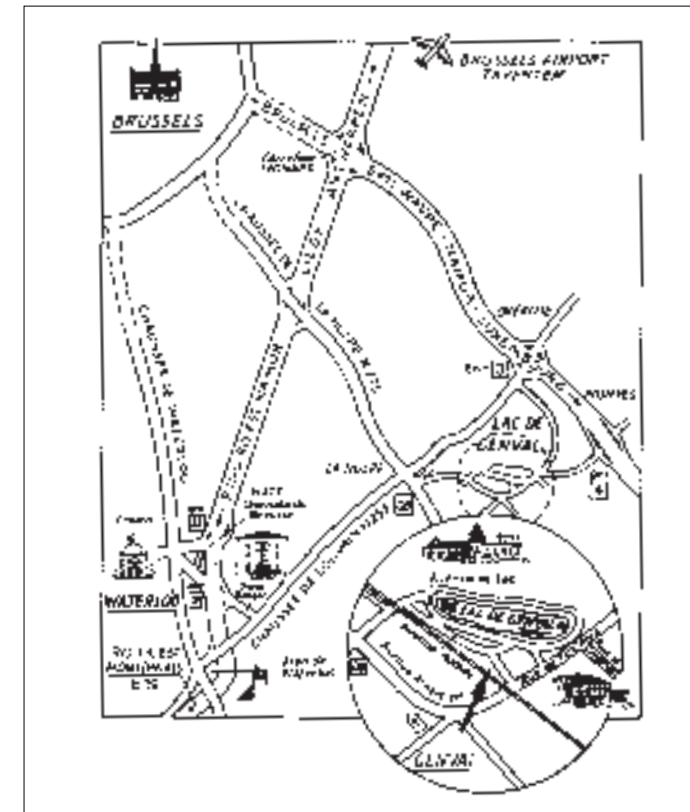
Travel Information

The Brussels International Airport has flight connections from many major cities in Europe and overseas. Coach transport from and to the airport is organized on April 19 and April 22. One of us will meet you 15 min prior to the departure of the bus, at the Airport meeting point (level arrivals) and at the railway station meeting point (gare du Midi).

Timetable :

	April 19 1st rotation	April 19 2nd rotation	April 19 3rd rotation	April 22 return
Airport	10.00	12.30	15.00	
Gare du Midi			16.00	
Château du Lac	10.30	13.00	17.00	09.30
Airport				10.30

Genvall may also be reached by car (15 min from Brussels on highway E111 Brussels-Namur-Luxembourg).



Social Program

On **April 20**, the participants are invited to attend, after the scientific sessions, a traditional cocktail in the Château du Lac. On **April 21**, before the banquet, a visit of downtown Brussels is organized, in the Grand'Place quarter. The visit is followed by beer and gueuze in Toone estaminet, with a guided visit of the puppet museum and a traditional show. A fine banquet is then organized in a famous restaurant in downtown Brussels. Participants will be driven to Brussels and back to Genval (around 23.30) in a luxury coach. Please join us !

Upon request, paying excursion may be organized during the congress for accompanying persons.



Happening on the Grand'Place

Registration Fees

Before Dec. 1, 2000	360 € (1)
After Dec. 1, 2000	400 € (1)
Resident/Student/Physiotherapist/Nurse	180 € (2)
Optional : Visit of downtown Brussels and banquet (April 21)	70 € (3)

(1) Fees include meeting attendance, book of abstracts, lunches, welcome reception on April 20, and transport by coach from and to the airport on April 19 and April 22. Not included : hotel accommodation, meals except 2 lunches, access to sports facilities. Acknowledgement of registration and receipt of fees will be sent soon after the registration form and full payment are received. Upon request, a letter of invitation will be sent. Payments should be made net of all bank charges and commissions. A 4 % commission will be added to all payments made by credit card. Invoices will be expressed in €. The organizers cannot be held responsible for any personal injury, loss, damage, accident to private property, or additional expenses incurred as a result of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather, war, sports and other causes. Luggage is at owners risk throughout unless insured. The symposium is organized by the 'Groupe pour l'Etude du Membre Supérieur', ASBL, Brussels.

(2) Please include a certificate signed by head of department.

(3) Included : coach transport Genval - Brussels - Genval.

Bank : CGER Erasme, 808 route de Lennik, B-1070 Brussels, Belgium on account 001-2343991-62 (GEMS).

CANCELLATION

In the event of cancellation, a full refund (less € 100 as a handling fee) of the registration fees may be obtained provided that written notification is received by December 15, 2000. A 50 % refund will be made for cancellations received by January 15, 2001. No refunds will be made thereafter.

Registration Desk

The registration desk will be open at the Château du Lac during the following hours :

April 19 : 16.00-19.30

April 20 : 07.30-17.00

April 21 : 07.30-17.00

Certificate of Attendance

Available at the registration desk. Upon request, a letter of invitation will be sent.

Weather

The weather should be sunny with pleasant temperatures. Rain is always possible !

Congress Secretariat : F. Schuind, M.D., Ph.D.
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REGISTRATION FORM

To be filled in and returned as soon as possible

Name

First name

Specialty

Title

Institution

Address

City Country Zip

Phone Fax

E-mail :

Arrival date Departure date

Special requests (diets, etc.)

Please fill in below as appropriate.

- I will participate in the Upper Extremity Symposium (please note that participation will be considered only after payment of the registration fees ; the number of participants is limited ; if some participants cannot be accepted, the fees will be reimbursed at no charge).
- I would like to attend the banquet and Brussels visit of April 21 (€ 70).
- I cannot attend the Symposium, but would like to purchase the book when published.
- Please send me more preliminary programs.
- My registration fees are paid as follows :
 - Enclosed check
 - Money order to Belgian account
GEMS 001-2343991-62
 - Credit card (Euro/Master, Visa)
Card type :
Card account number :
Cardholders' name :
Expiration date (mo./yr.) :

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DATE



STAMP

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