Preliminary Program

BRUSSELS INTERNATIONAL SYMPOSIUM
UPPER AND LOWER EXTREMITY MICROVASCULAR RECONSTRUCTIONS

Genval/Brussels, Belgium
March 7-8, 1997

SECRETARIAT

F. Schuind
Dept. of Orthopaedics
Erasme University Hospital
Route de Lennik 808, B-1070 Brussels, Belgium
Tel. 32/2/555 36 91 - 555 68 44 - Fax 32/2/520 35 56

MEETING PLACE

Château du Lac
Avenue du Lac, B-1332 Genval, Belgium
Tel. 32/2/655 71 11 - Fax 32/2/655 74 44
AIMS AND FORMAT

For the past 3 decades, the continuous development of the microsurgical techniques has dramatically improved the treatment of complex limb injuries. Free muscular flaps now allow to transform in a much simpler injury, a closed fracture covered by healthy tissue, a complex open fracture of the tibia, which until recently had been treated by amputation. Vascularized bone transfers are used in various indications, including after en-block tumoral resection. Microvascular transfers from the foot have revolutionised the treatment of digital amputations, either of traumatic or congenital origin.

A microsurgical reconstruction is a multidisciplinary enterprise. To achieve optimal results it is essential to have close cooperation between the microsurgeon, the orthopaedic surgeon, the anaesthesiologist and the patient. The use of microsurgery should be addressed early, as an integrate part of the surgical planning, and not withheld only until after the failure of more conventional reconstructive techniques. The first goal of the symposium is to promote close cooperation between all specialists taking care of complex lesions affecting the upper and lower extremities.

The microvascular techniques are still evolving. Many imaginative new flaps are being proposed to meet more precisely the functional requirements of the various defects. Alternative anastomotic techniques, development of synthetic vascular grafts, or prolongation of tissue survival by hypothermia or other means are also currently being investigated. The no-reflow phenomenon has been extensively studied. Allotransplantation might be feasible in the future, depending on the progress of control in the immunologic responses. The second goal of the symposium is to promote the exchange of ideas and innovation among clinicians and basic researchers involved with the problems of upper and lower extremities microvascular reconstructions.

SPECIFIC AIMS

1) To summarize current scientific knowledge on microvascular reconstruction of the extremities and to review ongoing clinical and basic research in the field.

2) To discuss unsolved clinical problems and potential solutions based on current scientific knowledge.

3) To explore future directions of investigation.

ORGANIZING COMMITTEE

F. BURNY  B. COESSENS
S. DE FONTAINE  A. DEMEY
D. GOLD SCHMIDT  F. SCHUIND
J. VAN GEERTRUYDEN

FACULTY

F. BURNY (Belgium)  A. CARLIER (Belgium)
B. COESSENS (Belgium)  S. DE FONTAINE (Belgium)
C. DELLOYE (Belgium)  A. DEMEY (Belgium)
G. FOUCHER (France)  D. GOLD SCHMIDT (Belgium)
P. HOANG (Belgium)  A. C. MASQUELET (France)
F. SCHUIND (Belgium)  J. VAN GEERTRUYDEN (Belgium)
M. WOOD (MN, USA)
Daily Program at a Glance

March 6 (Thursday) March 7 (Friday) March 8 (Saturday)

08.00  Registration

08.15

09.00  An Introduction to Microvascular Reconstructions of the Extremities

09.40  Coffee-break

10.10  Vascularized Bone Transfers and Alternative Procedures (I)

10.15  Coffee-break

10.45  Physiology of the Microcirculation, New Techniques of Anastomosis, Synthetic Grafts, and Postoperative Monitoring

11.25  Panel Discussion: Vascularized versus Nonvascularized Bone Grafts

11.55  Open Fractures (I)

12.30  Lunch

12.35  Lunch

13.30  Open Fractures (II)

14.00  Current and New Flaps, Normal Anatomy, and Vascular Variations

14.15  Miscellaneous

15.00  Reconstruction after Open Tibial Fractures, and Soft Tissue Reconstruction of the Lower Extremity. Discussion of Posters and Case Reports. Ten Questions to the Floor and the Faculty

15.30  Coffee-break

15.50  Summary and Conclusions

16.00  Registration

16.00  Reconstruction of the Hand

17.00  Health break

17.45  Social program

18.30  Welcome Reception

18.35  Case Reports to Challenge the Experts and Panel Discussion on Hand Reconstruction

20.00  Free evening

Banquet (optional)

Program

Thursday, March 6, 1997

16.00-19.00  Registration

18.30-20.00  Welcome Reception

Friday, March 7, 1997

08.00  Registration

09.00-10.15  Session 1: An Introduction to Microvascular Reconstructions of the Extremities
(Moderators: F. Schuind, D. Goldschmidt)

09.00  Opening Address
F. Schuind (Brussels, Belgium)

09.10  Fracture Healing and Bone Remodeling
F. Schuind (Brussels, Belgium)

09.30  Organization of the Microsurgical Team, and Timing of Microvascular Reconstructions
S. de Fontaine (Brussels, Belgium)

09.40  Physiology of the Microcirculation
B. Coessens (Brussels, Belgium)

09.50  Amputation versus Salvage, a Pending Problem
Y. Andrianne, Ph. Etiin, F. Schuind, F. Burny (Brussels, Belgium)

10.00  Discussion

10.15-10.45  Coffee-break and visit of the poster and commercial exhibition

10.45-12.30  Session 2: Physiology of the Microcirculation, New Techniques of Anastomosis, Synthetic Grafts, and Postoperative Monitoring
(Moderators: B. Coessens, W. Boeckx)

10.45  Endothelin and No-Reflow
B. Coessens, M. Wood (Brussels, Belgium, and Rochester, MN, USA)

10.55  Discussion

11.00  The Use of Magnifying Loupes instead of the Microscope in Microsurgery
Ph. Gréant (Dilbeek, Belgium)

11.10  Discussion

11.15  Mechanical Microvascular Anastomoses in Upper Extremity Reconstruction
M. Lanzetta (Milan, Italy)

11.25  V.C.S. Stapled Microvascular Anastomoses in Lower Leg Free Flaps
W. Boeckx, B. Vander den hof, O. Darius (Leuven, Belgium)
11.35  Discussion
11.45  Microvascular Reconstruction: PTFE Prostheses Versus Vein Grafts
       C. M. Durante, G. Macchiarelli (Rome, Italy)
11.55  Discussion
12.00  Modified Clark Electrode for Monitoring Flap Circulation
       A. G. Liss, P. Liss (Uppsala, Sweden)
12.10  Discussion
12.15  Management of Venous Congestion in Trauma and Reconstructive Microsurgery: the Significance of Medicinal Leeches
       P. N. Soucacos, A. E. Beris, K. N. Malizos, P. K. Soucacos (Ioannina, Greece)
12.25  Discussion
12.30  Lunch and visit of the poster and commercial exhibition
14.00-15.30  Session 3: Current and New Flaps, Normal Anatomy and Vascular Variations
               (Moderators: A. Demey, A. C. Masquelet)
14.00  Clinical Muscle Testing and Isokinetic Evaluation of Latissimus Dorsi Donor Site
14.10  Discussion
14.15  Variations in the Anatomy of the Subscapular Pedicle
       S. de Fontaine, J. Van Geertruyden, D. Goldschmidt (Brussels, Belgium)
14.25  Discussion
14.30  The Value of the Distally Planed Lateral Arm Flap in Extremity Reconstruction
       B. Coessens, M. Hamdi (Brussels, Belgium)
14.40  Discussion
14.45  Medial Thigh Flap
       N. Chahidi, J. Bakach, A. Ballanger, D. Martin, J. Baudet (Bordeaux, France)
14.55  Discussion
15.00  The Free Temporalis Fascia Flap for Foot and Lower Leg Reconstruction
       W. Boeckx (Leuven, Belgium)
15.10  Discussion
15.15  The Retrograde Arterialized Venous Flap—Experimental Findings and Clinical Application
       H. Moshammer, H. Koch, F. Schwarzl, P. Rehak, G. Pierer, E. Scharnagl (Graz, Austria)
15.25  Discussion
15.30-16.00  Coffee-break and visit of the poster and commercial exhibition
16.00-17.45  Session 4: Reconstruction of the Hand
               (Moderators: J. Van Geertruyden, G. Foucher)
16.00  Microvascular Reconstruction of Congenital Lesions
       G. Foucher (Strasbourg, France)
16.30  Discussion
16.40  Reconstruction of the Thumb in Children with Congenital Hand Pathologies
       S. I. Golyana (St. Petersburg, Russia)
16.50  Partial and Total Toe Transfers to the Hand
       A. Carlier (Liège, Belgium)
17.00  Reconstruction of the Traumatized Hand by Microsurgical Transfers from the Foot
       J. P. Moermans, L. Kinnen, P. Ledoux (Brussels, Belgium)
17.10  Vascularized Articular Transfers
       Ph. Hoang (Brussels, Belgium)
17.20  Discussion
17.30  Microsurgical Reconstruction of Defects of Forearm and Hand by using the Combined Scapular/Parascapular Free Flap
       M. Sauerbier, D. Erdmann, M. Pelzer, G. Germann (Ludwigshafen, Germany)
17.40  Discussion
17.45-18.35  Session 5: Case Reports to Challenge the Experts and Panel Discussion on Hand Reconstruction
               (Moderators: A. Carlier, G. Foucher)
17.45  Upper Limb Salvage in Severe Electrical Burns
       J. Bahm, D. von Heimburg, S. von Salem (Aachen, Germany)
17.50  Composite Big-Toe Flaps of Nail, Nail Matrix, and Bone for Replacement of a Thumb Defect
       P. Lorèa, S. de Fontaine, F. Schuind (Brussels, Belgium)
Saturday, March 8, 1997

08.15-09.40 Session 6: Vascularized Bone Transfers and Alternative Procedures (I)
(Moderators: F. Burny, M. Wood)

08.15 Long Bone Reconstruction by Vascularized Bone Transfer
M. Wood (Rochester, MN, USA)

08.45 Discussion

08.55 Osteosynthesis of Vascularized Bone Transfers with Special Reference to External Fixation
F. Schuind, F. Burny (Brussels, Belgium)

09.05 Primary Vertical Split Osteotomy of Fibular Osteocutaneous Free Flap with Intramedul-
ary Locking Nail Fixation for Long Bone Reconstruction
M. van Rooyen, W. J. B. Prinsloo, E. Pelser
(Pretoria, South Africa)

09.15 Discussion

09.25 Bone Healing and Bone Hypertrophy of Vascularized Bone Transplants under Post-
operative Angiographic Control. A Study of 70 patients
A. Eisenschenk, M. Lautenbach, U. Weber
(Berlin, Germany)

09.35 Discussion

09.40-10.10 Coffee-break and visit of the poster and commercial exhibition

10.10-11.25 Session 7: Vascularized Bone Transfers and Alternative Procedures (II)
(Moderators: Ph. Hoang, M. Wood)

10.10 Application of the Free Fibular Graft for the Management of Avascular Necrosis of the Femoral Head
P. N. Soucacos, K. N. Malizos, A. E. Beris,
T. A. Xerakis (Ioannina, Greece)

10.20 Discussion

10.25 Treatment of Infected Nonunions with Segmental Bone Defects by Vascularized Bone Grafting
Y. Yamano (Osaka, Japan)

10.35 The Free Vascularized Fibular Transfer as a Definitive Treatment of Femoral Septic Non-
unions
J. Baehm, J. Nonnenmacher (Aachen, Germany,
and Strasbourg, France)

10.45 Discussion

10.55 Biological Implementation of Autologous Foreign Body Membranes in Consolidation of
Massive Cancellous Bone Graft
K. Klaue, U. Knothe, A. C. Masquelet
(Bern, Switzerland, and Paris, France)

11.05 Discussion

11.10 Alternative Procedure: Reconstruction of the Radius with Massive Allografts
O. Barbier, O. Corru, C. Delloye, P. De Nayer
(Louvain-en-Woluwe, Belgium)

11.20 Discussion

11.25-11.55 Session 8: Panel Discussion: Vascularized versus Nonvascularized Bone Grafts
(Moderators: C. Delloye, A. C. Masquelet)

11.55-12.35 Session 9: Open Fractures (II)
(Moderators: Y. Andrienne, M. Wood)

11.55 Reconstruction of Large Skeletal Defects of the Leg
A. C. Masquelet (Paris, France)

12.25 Discussion

12.35-13.30 Lunch and visit of the poster and commercial exhibition
13.30-14.15 Session 10: Open Fractures (II)
(Moderators: Y. Andrianne, M. Wood)

13.30 Vascularized Bone Transfers in Gustilo III_B
Open Tibial Fractures
Ph. Hoang (Brussels, Belgium)

13.40 Emergency Vascularized Composite Transfers for Traumatic Tissue Defect
Y. Yamano (Osaka, Japan)

13.50 Microvascular Tissue Transplantation for Limb Salvage Surgery
St. Handstein, K. Plogmeier, W. Schneider
(Magdeburg, Germany)

14.00 Discussion

14.15-15.00 Session 11: Miscellaneous
(Moderators: S. de Fontaine, J. P. Moermans)

14.15 Reconstruction of the Brachial Muscle by Free Vascularized Muscular Transfer
A. Carlier (Liège, Belgium)

14.25 Discussion

14.30 Soft Tissue Reconstruction of the Infected Knee
J. P. Moermans, Ph. Gréant (Brussels, Belgium)

14.40 Discussion

14.45 Free Flap Evolution after Hyperthermic Regional Chemotherapy on Isolated Limb for Malignant Melanoma
D. Goldschmidt, J. Van Geertruyden,
S. de Fontaine (Brussels, Belgium)

14.55 Discussion

15.00-15.50 Session 12: Reconstruction after Open Tibial Fractures, and Soft Tissue Reconstruction of the Lower Extremity – Discussion of Posters and Case Reports – Ten Questions to the Floor and the Faculty
(Moderators: F. Schuind, S. de Fontaine)

15.50-16.00 Summary and Conclusions
F. Schuind, S. de Fontaine (Brussels, Belgium)

16.00-17.00 Health break (sports or access to the center of fitness)

17.00 Social Program: visit of the Waterloo battlefield,
of the Hougomont farm, and of the Wellington
Museum in Waterloo
Cocktail at the Museum

20.00 Banquet in the lovely village of Ohain (optional)

Posters:
The Chinese Flap Donor Site: Skin Expansion Versus Split Thickness Skin Coverage
A. E. Beris, P. N. Soucacos, K. N. Malizos,
A. Georgoulis (Ioannina, Greece)
The Application of Vascularized Bone Graft in Scaphoid Nonunions
K. N. Malizos, P. N. Soucacos, A. E. Beris
(Ioannina, Greece)
Free Composite Tissue Transfer for the Treatment of Large Bony Defects
K. Malizos (Ioannina, Greece)
Reconstruction of Sensible Nerve Defects using Vein Grafts
A. Obitschnig (Klagenfurt, Austria)
Repair of Excessive Soft Tissue Injuries within Upper Extremity using Free and Pedicled Omentum Maxis Flaps
P. Prowans, A. Zyluk (Szczecin, Poland)
Total Scaphoid Transplantation as a Possible Solution to Complex Scaphoid Problems
D. Stoffelen, L. De Smet, P. Broos
(Leuven, Belgium)
Congress Information

Venue
Château du Lac, avenue du Lac
B-1332 Genval, Belgium
Tél. : + 32 2 655 71 11 - Fax + 32 2 655 74 44.

Language
English.

Information for Presenters
The allocated time of presentation should be strictly respected (10 min. for the free papers). Slides: single or double projections are available (Kodak carousel). Use 35 mm slides in 50 x 50 mm plastic mount. Overhead projection is also available.
The preview room is open on March 7 from 07.00 to 19.00, and on March 8 from 07.00 to 17.00. Each presenter should check with the technician in the preview room and introduce himself to the moderators of his session. Video presentations are not accepted. Posters: maximal size 100 mm width and 120 mm height including titles.
A comprehensive publication will be issued after the symposium. Presenters should provide their full original manuscript by August 31, 1997. Participants whose papers are published are entitled to receive a free copy of the volume.

Accommodation
At the quiet and beautiful 'Château du Lac', 15 km outside Brussels. Sports facilities (tennis, 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 "Microsurgery Symposium" to receive the reduced rate for the dates March 6 through March 9.
Indicative rate: SINGLE 16000 BEF (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,
B-1332 Genval, Belgium
Tél. + 32 2 655 71 11 - Fax + 32 3 655 74 44.

Continuing Medical Education Credit
Belgian Accreditation Council, 60 points
(2848.0011, accreditation type 2, 60 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 March 6 and March 9. 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).

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Genval may also be reached by car (15 min from Brussels on Highway E411 Brussels-Namur-Luxembourg).

Social program
The welcome reception of March 6 will be held at the Manoir du Lac, close to the Château du Lac, 4 avenue Hoover, B-1332 Genval (tel. 655 63 11).

On March 8, before the banquet, a historical visit of the battle-field of Waterloo, of the Hougoumont farm and of the Wellington Museum is organized. A cocktail will be offered at the museum.
The banquet will then be held in a nice restaurant in the lovely village of Ohain, close to Genval. Please join us!

Upon request, paying excursions may be organized for accompanying persons.

**Registration Fees**

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<td>Before Dec 31, 1996</td>
<td>14000 BEF (1)</td>
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<td>Resident/Student/Physiotherapist/Nurse</td>
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<td>Optional: Banquet (March 8)</td>
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(1) Fees include meeting attendance, book of abstracts, lunches, welcome reception on March 6 and transport by coach from and to the airport on March 6 and March 9. Not included: hotel accommodation, meals except 2 lunches, access to sport facilities, symposium book. 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 commission. A 4% commission will be added to all payments made by credit card. Invoices will be expressed in Belgian francs. 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 course is organized by the Groupe pour l'Etude du Membre Supérieur, ASBL, Brussels.

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

(3) Included: coach transport Genval-Waterloo-Ohain-Genval, touristic visit of the battlefield of Waterloo and of the Wellington Museum, cocktail in Waterloo, and dinner in a typical Belgian restaurant.

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

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

- March 6: 16.00-19.00
- March 7: 07.30-17.00
- March 8: 07.30-17.00

**Cancellation**

In the event of cancellation, a full refund (less 4000 BEF as a handling fee) of the registration fees may be obtained provided that a written notification is received by Jan 1, 1997. A 50% refund will be made for cancellations received by Feb 1, 1997. No refunds will be made thereafter.

**Certificate of attendance**

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

**Weather**

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

**Congress secretariat**

F. Schuind M.D. Ph.D.
Dept. of Orthopaedics
Erasme University Hospital
Route de Lennik 808,
B-1070 Brussels
Tel. +32 2 555 36 89 - 555 68 44
Fax +32 2 520 36 56.

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**REGISTRATION FORM**

To be filled in and returned as soon as possible

Name ..........................................................
First name ..................................................
Speciality ..................................................
Title ........................................................
Institution .................................................
Address ......................................................
City .......... Country .......... Zip ..............
Phone ................................................. Fax ........
Arrival date .................. Departure date ...........

Please fill in below as appropriate:

- I will participate in the Microvascular Reconstruction 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 like also to attend the banquet and historical visit of March 8.

- 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.): ........................

- Special requests (dietetics, etc.): ...........................

__________________________
SIGNATURE

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DATE