Preliminary Program

BRUSSELS INTERNATIONAL UPPER EXTREMITY SYMPOSIUM

REFLEX SYMPATHETIC DYSTROPHY

A meeting sponsored by the ARCO
(Association Research Circulation Osseous)

Genval/Brussels, Belgium
April 29-30, 1996

SECRETARIAT
F. Schuind
Dept. of Orthopedics
Erasme University Hospital
Route de Lennik 808, B-1070 Brussels, Belgium
Tel. 32/2/555 36 91 - Fax 32/2/520 35 56
AIMS AND FORMAT

Reflex sympathetic dystrophy remains one of the most severe complications of upper extremity surgery. It is surely the least predictable cause of poor outcome, and it occurs sometimes after very minor trauma to the limb. According to some reports, it could affect up to 25% of the hand surgery patients. It is also observed after elbow and shoulder surgery.

Despite its severity and frequency, reflex sympathetic dystrophy remains a diagnostic and therapeutic challenge. The clinical, radiographic, and scintigraphic diagnostic criteria are not well defined. The syndrome itself has received many designations, including algoneurodystrophy, Sudeck's atrophy, Sudeck Leriche syndrome, shoulder-hand syndrome, causalgia, sympathetic maintained pain syndrome,... The pathophysiology associated with reflex sympathetic dystrophy remains unclear.

There is no current agreement concerning the possibilities of preventing the complication or regarding the optimal treatment modalities.

The goal of this symposium is to promote the exchange of ideas, to foster collaborative investigations among surgeons, rheumatologists, neurologists, anesthesiologists, physiotherapists, radiologists, nuclear medicine specialists, pharmacologists, and basic researchers involved with the problems of posttraumatic or postoperative reflex sympathetic dystrophy.

SPECIFIC AIMS

1) To summarize current scientific knowledge on upper extremity reflex sympathetic dystrophy and to review ongoing research in the field,
2) To establish diagnostic criteria,
3) Based on current scientific knowledge, to discuss the treatment options and to identify potential new therapeutic directions,
4) To establish direction for future investigation.

ORGANIZING COMMITTEE

F. BURNY  M. DRIESSENS
A. SCHOUTENS  F. SCHUIND

FACULTY

J. ARLET (France)  Th. APPELBOOM (Belgium)
P. BREDAS (Belgium)  F. BURNY (Belgium)
P. DOURY (France)  M. DRIESSENS (Belgium)
P. DUREZ (Belgium)  D. HENNART (Belgium)
Ch. MASSON (France)  J.-J. ROMBOUTS (Belgium)
A. SCHOUTENS (Belgium)  F. SCHUIND (Belgium)
M. WOOD (USA)

Daily Program at a Glance

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Coach transportation to Erisme and coffee-break
Teleconference with the USA
Panel Discussion - Ten Questions to the Floor and the Faculty
Summary and Conclusions
Program

Sunday April 28, 1996

16.00 - 19.00 Registration
18.30 - 20.00 Welcome Reception
Musée de l'Eau et de la Fontaine, Genval (sponsored by Sandoz)

Monday April 29, 1996

09.00 - 10.30 Session 1: Reflex Sympathetic Dystrophy: Definitions, Designations, Clinical Presentations
(Moderators: A. Schoutens, F. Burny)
09.00 Opening Address
F. Schuind (Brussels, Belgium)
09.10 What is Reflex Sympathetic Dystrophy and what is not?
M. Driessens (Antwerp, Belgium)
10.00 - 10.30 Discussion
10.30 - 11.00 Coffee-break and visit of the commercial exhibit
11.00 - 12.30 Session 2: Physiopathology (1)
(Moderators: A. Schoutens, F. Burny)
11.00 Historical Perspectives
P. Doury (Paris, France)
11.30 Physiopathology
J. Arlet (Toulouse, France)
12.00 - 12.30 Discussion
12.30 - 13.45 Lunch and visit of the commercial exhibit
13.45 - 15.45 Session 3: Physiopathology (2)
(Moderators: J. Arlet, M. Driessens)
13.45 The Vascular Pathophysiology of Reflex Sympathetic Dystrophy: A Review of the German Literature and its Clinical Implication
J. Bahm, D. von Heimburg, G. Wendt, S. von Saddern (Aachen, Germany)
13.55 A Laser Doppler Flowmetry of the Arterial Blood Flow to the Hand after Carpal Tunnel Release
F. Schuind, T. Nguyen, M. Vancabeke, J.-Cl. Wautrecht (Brussels, Belgium)
14.05 - 14.15 Discussion
14.15 An In Vivo Free Radical Damage Animal Model of one Hindlimb with Clinical Signs and Symptoms of Reflex Sympathetic Dystrophy
L. van der Laan, P. J. C. Kaptein, A. Verhofstad, T. Hendriks, R. J. A. Gorts (Nijmegen, The Netherlands)
14.25 - 14.30 Discussion
14.30 Role of the Neuropeptides in the Pathogenesis of Reflex Sympathetic Dystrophy
S. J. Blair (Maywood-Chicago, Illinois, USA)
14.40 Neurmediators and Reflex Sympathetic Dystrophy
Th. Appelboom (Brussels, Belgium)
14.50 - 15.00 Discussion

15.00 Neurogenic Inflammation in a Model of Neuropathic Pain: In Vivo and In Vitro Assessment
15.10 Autonomic Denervation and Hypersensitivity to Catecholamines in an Animal Model of Reflex Sympathetic Dystrophy
15.20 Bilateral Motor Denervation Induced by Chronic Constriction Injury in an Animal Model of Reflex Sympathetic Dystrophy
15.30 - 15.45 Discussion
15.45 - 16.15 Coffee-break and visit of the commercial exhibit
16.15 - 17.00 Session 4: Physiopathology (3)
(Moderators: P. Doury, M. Driessens)
16.15 - 16.25 The Hypothalamic-Pituitary-Adrenocortical Axis in Patients with Reflex Sympathetic Dystrophy
H. Y. Kardas (Kayseri, Turkey)
16.25 - 16.30 Discussion
16.30 Psychological Aspects - A Series of 100 Posttraumatic Cases of Reflex Sympathetic Dystrophy
A. Raulis (Brussels, Belgium)
16.40 Is Posttraumatic Reflex Sympathetic Dystrophy Related to the Cause of the Initial Injury?
F. Burny, F. Schuind, A. Schoutens, F. Moulart (Brussels, Belgium)
16.50 - 17.00 Discussion
17.00 - 18.25 Session 5: Unfrequent Clinical Presentations
(Moderators: J. J. Rombouts, P. Durez)
17.00 Reflex Sympathetic Dystrophy in Children
D. Denis, N. Allington (Liège, Belgium)
17.10 Reflex Sympathetic Dystrophy in Children
O. Barbier (Brussels, Belgium)
17.20 - 17.30 Discussion
17.30 Zonal Localization of Reflex Sympathetic Dystrophy in the Distal Tibial Epiphyseal
M. Driessens, F. Deblock, H. Dijs, G. Verheyen (Antwerp, Belgium)
17.50 Isolated Finger Involvement versus Extensive Upper Extremity Reflex Sympathetic Dystrophy
18.00 Frozen Shoulder - An Algoneurodystrophic Process?
L. P. Müller, J. John, M. Rittmeister, J. Happ, F. Kerschbaum (Mainz, Frankfurt/Main, Germany)
18.10 - 18.25 Discussion
18.25 - 19.00 Session 6: Panel Discussion: Definitions, Clinical Presentations, and Physiopathology of Reflex Sympathetic Dystrophy
(Moderator: A. Schoutens)
19.00 Free Evening
Tuesday April 30, 1996

08.00 - 09.55 Session 7: Diagnosis and Imaging
(Moderators: A. Schoutens, J.-P. Jones)

08.00 Sensitivity, Specificity, and Predictive Value of Three-
Phase Bone Scintigraphy
L. Celentano, S. Russo, U. Passaretta, F. Lanza (Naples, Italy)

08.10 Same-Day Scintigraphic Protocol Combining Nano-
meter-Sized Collidoids and MDP in Reflex Sympathetic
Dystrophy: Rationale and Clinical Application
M. Steiger, E. Laurent, M. Rubinstein (Brussels, Belgium)

08.20 Clinical Value of Dynamic Bone and Vascular
Scintigraphy in Upper Extremity Reflex Sympathetic
Dystrophy
C. Schlepers, I. Bormans, M. De Roo (Sylmar, USA, and
Leuven, Belgium)

08.30 Bone Scintigraphy in Children with Persistent Pain in
an Extremity, Suggesting Reflex Sympathetic
Dystrophy
(Brussels, Belgium)

08.40 - 09.00 Discussion

09.00 Conventional Radiology and Magnetic Resonance
Imaging
S. Sinzoff (Brussels, Belgium)

09.15 Assessment of Hand Bone Mineral Content by X-Ray
Densitometry after Wrist Fracture
J. Bentin, P. Ledoux (Baudour, Belgium)

09.25 - 09.35 Discussion

09.35 Investigations in Reflex Sympathetic Dystrophy
(excluding Conventional Radiology and Radionuclide
Bone Scintigraphy)
Ch. Masson, J.C. Renier, Ch. Pascaretti, M. Namour, M.
Audran (Angers, France)

09.50 - 09.55 Discussion

09.55 - 10.25 Coffee-break and visit of the commercial exhibit

10.25 - 12.40 Session 8: Natural History, Treatment,
Prevention, Legal Issues (1)
(Moderators: Ch. Masson, Ph. Bredas)

10.25 Natural History - P. Doury (Paris, France)

10.55 - 11.10 Discussion

11.10 The Importance of Physiotherapy in the Treatment of
Reflex Sympathetic Dystrophy Patients
V. Bernard (Brussels, Belgium)

11.20 Acupuncture in the Treatment of Posttraumatic Pain
Syndrome
V. Fjällbacka, M.I. Korpan, Y. Dezu, I. Schneider (Wien,
Austria)

11.30 - 11.40 Discussion

11.40 Neuroaugmentation in the Treatment of Complex
Regional Pain Syndrome of the Upper Extremity
O. Calvillo, J. Didier, G. Racq (Baton Rouge, Texas, USA)

11.50 Treatment of Reflex Sympathetic Dystrophy using
Neurostimulation
Ph. Bredas (Brussels, Belgium)

12.00 - 12.10 Discussion

12.10 Brachial Plexus Sympathectomy
S. Russo, L. Celentano, U. Passaretta, L. Messore,
D. Andreo, B. Corrado (Naples, Italy)

12.20 Sympathetic Nerve Blocks
D. Hennart, G. Simonet (Brussels, Belgium)

12.30 - 12.40 Discussion

12.40 - 13.13 Lunch and visit of the commercial exhibit

13.15 - 13.50 Session 9: Natural History, Treatment,
Prevention, Legal Issues (2)
(Moderators: D. Hennart, Th. Appelboom)

13.15 Neutrophil Efficacy in Reflex Sympathetic Dystrophy
Syndrome of the Upper Extremity
H. Miweshige, Y. Ikuta, K. Toita, H. Kinura (Hiroshima,
Japan)

13.25 - 13.30 Discussion

13.30 Our Experience with Pamidronate in Refractory Reflex
Sympathetic Dystrophy
V. Bernard, P. Doury, P. Rondeaux, Th. Appelboom
(Brussels, Belgium)

13.40 Pamidronate IV Therapy in Reflex Dystrophy - Results
of Four years Therapy
B. De Grave (Sint-Niklaas, Belgium)

13.50 Association Islemine - Pamidronate - Ketanserine:
A Prospective Study
G. Simonet, D. Hennart, R. Kok, Th. Appelboom (Brussels,
Belgium)

14.00 Our Experience of the Treatment of Reflex Sympathetic
Dystrophy
A. Enhos, F. Kul, G. Arikana, A. Bora (Izmir, Turkey)

14.10 - 14.30 Discussion

14.30 The Stenosis of the Subclavian Vein, the “Second Key”
to the Riddle of Reflex Sympathetic Dystrophy: Operative
Treatment of Resistant Cases
A. Wilhelm (Aschaffenburg, Germany)

14.40 Results of TOS-Surgery
W. Wenz (Heidelberg, Germany)

14.50 - 15.00 Discussion

15.00 Can Reflex Sympathetic Dystrophy be Prevented?
F. Schluind (Brussels, Belgium)

15.10 Prophylaxis against “Recurrence” of Reflex
Sympathetic Dystrophy
Ch. Masson, J.C. Renier, Ch. Pascaretti, M. Audran
(Angers, France)

15.20 - 15.30 Discussion

15.30 - 15.45 Medicolegal Issues - M. Dreissens (Antwerp, Belgium)

15.45 - 15.50 Discussion

15.50 - 17.00 Coach Transportation to the Museum of the History
of Medicine - Medical School, Université libre de Bruxelles,
Campus Erasme
Coffee-break

17.00 - 19.00 Session 10: Conclusions, Points of Consensus,
and Recommendations for Future Investigations

17.00 - 18.00 Teleconference with the United States
Reflex Sympathetic Dystrophy: Importance of the Problem,
Prevention, and Treatment at a Major Northern American
Center, the Mayo Clinic
M. Wood and the Hand Section of the Mayo Clinic
(Rochester, MN, USA) and J. Arlet, T. Appelboom, F.
Buny, P. Doury, M. Dreissens, A. Hennart, B. Masson, A.
Schoutens (France, Belgium)
(Moderator: F. Schluind)

18.00 - 18.45 Panel Discussion - Ten Questions to the Floor and to
the Faculty - (Moderator: A. Schoutens)
A. Schoutens, M. Dreissens (Brussels, Antwerp, Belgium)

18.45 Summary and Conclusions
A. Schoutens, M. Dreissens (Brussels, Antwerp, Belgium)

19.00 Banquet at the native house of Erasme (optional) or return
by coach to Genval
Congress information

Venue
Château du Lac, avenue du Lac,
B-1322 Genval, Belgium
Tel. + 32 2 654 11 22 - Fax + 32 2 653 62 00.

The teleconference and the final panel discussion of April 30 will be held in the Museum of Medicine, Erasme University Medical School, 808 route de Lennik, 1070 Brussels (tel. + 32 2 555 34 31). Coach transport Genval-Brussels-Genval will be provided. Another coach will be available from Genval for accompanying persons who wish to attend the banquet on April 30 (Erasme native house, Brussels).

Timetable:

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

Continuing medical education credit
Accreditation of the Congress has been requested (Belgian Accreditation Council, INAMI).
A certificate will be provided to interested participants.

Travel information
The Brussels International Airport has flight connections from many major cities in Europe and USA. Coach transport from and to the airport is organized on April 28 and May 1. One of us will meet you on April 28, 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).

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 carrousels). Use 35 mm slides in 50 x 50 mm plastic mounts. The preview room is open on April 29 from 08.00 to 19.00, and on April 30 from 07.15 to 16.00. Each presenter should check with the technician in the preview room and introduce himself to the moderators of his session. Poster or video presentations are not accepted.

A comprehensive publication will be issued after the symposium. Presenters should provide their full original manuscript by August 31, 1996. 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 will be available during leisure time.

When contacting the hotel, please state that you are attending the 'Upper Extremity Arthroplasty Symposium' to receive the reduced rate for the dates April 27 through April 30.

Indicative rate: SINGLE 18000 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-1322 Genval, Belgium
Tel. + 32 2 654 11 22 - Fax + 32 2 653 62 00.
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
Special requests (dietetics, etc.)

Please fill in below as appropriate

☐ I will participate in the Reflex Sympathetic Dystrophy 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 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.):

SIGNATURE DATE