Preliminary Program

BRUSSELS INTERNATIONAL UPPER EXTREMITY SYMPOSIUM

UPPER EXTREMITY ARTHROPLASTY
A meeting sponsored by the European Society of Biomechanics

Brussels, Belgium
April 28-29, 1995

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

Joint replacement is a multidisciplinary enterprise. To achieve optimal results it is essential to have close cooperation between orthopedic surgeons, bioengineers and implant designers.

While excellent results are routinely reported for total hip and knee replacements, clinical results in the upper extremity are less than ideal in many cases. Replacement of distal joints is especially problematic as most joint replacement research remains focused on the hip and knee.

The goal of this symposium is to promote the exchange of ideas, to foster collaborative investigations among clinicians, manufacturers, engineers, and other basic scientists involved with the problems of replacement arthroplasty in upper extremity joints, from the finger to the shoulder.

Specific Aims

1) To summarize current scientific knowledge in the area of upper extremity joint replacement,
2) To discuss currently unsolved clinical problems and potential solutions based on current scientific knowledge,
3) To review new prosthetic designs,
4) To explore future directions of investigation.

ORGANIZING COMMITTEE
K.N. AN (USA)  F. BURNY (Belgium)
L. FABECK (Belgium)  A. POTAZNIK (Belgium)
F. SCHUIIND (Belgium)

FACULTY
J.Y. ALNOT (France)  K.N. AN (USA)
F. BURNY (Belgium)  R. LEMAIRE (Belgium)
R.L. LINScheid (USA)  J.J. ROMBOUTS (Belgium)
M. ROOZE (Belgium)  F. SCHUIIND (Belgium)
G. SENNWALD (Switzerland)  B.R. SIMMEN (Switzerland)
Program

Thursday, April 27
15.00 - 19.00 Registration
17.30 - 19.30 Welcome reception

Friday, April 28
08.00 - 09.40 An Introduction to Upper Extremity Arthroplasty
(Moderator: F. Burny)
Opening Address - F. Schuind (Brussels, Belgium), K.N. An (Rochester, MN, USA)
Biomaterials: A Challenge for Medicine and Industry in the late Nineties
F. Burny, M. Donkerwolcke (Brussels, Belgium)
Friction, Wear, and Biological Responses
A. Potaznik, F. Burny (Brussels, Belgium)
Biomechanic Consideration of Joint Replacement in Upper Extremity
K.N. An (Rochester, MN, USA)
Indications, Contraindications, Patient Selection
F. Schuind, F. Burny (Brussels, Belgium)

09.40 - 10.00 Coffee-break

10.00 - 12.20 Finger Joint Replacement: Prosthetic Design and Clinical Applications
(Moderators: K.N. An, F. Schuind)
Finger Joint Replacement, a Challenge for the next Century
G. Sennwald (Switzerland)
Finite Element Models of Finger Bones with Artificial Implants
R. Targowski, P. Ledoux, D. Lamblin, G. Guerlemont (Mons, Brussels, Belgium)
Development of a Surface Replacement Arthroplasty for the Proximal InterPhalangeal Joints
R.L. Linscheid, P.M. Murray, M.A. Vidal, R.D. Beckenbaugh (Rochester, MN, USA)
DJOA Arthroplasty - 10 Years of Experience - First Results of the DJOA 3
J.L. Condamine, L. Marucci (Caen, France)
The Use of a Regnault Plate for Post-Traumatic Arthritis in the Metacarpophalangeal Joint on a Young Girl
A. Obiltschnig (Klagenfurt, Austria)

12.20 - 13.50 Lunch

13.50 - 15.05 Finger Joint Replacement: Clinical Applications
(Moderators: R.L. Linscheid, M. Rooze)
The Palmar Approach in Flexible Implant Resection Arthroplasty of the Proximal InterPhalangeal Joint
D.B. Herron, B.R. Simmen (Zürich, Switzerland)
Proximal InterPhalangeal Joint Replacements with Sjovand Implant and Condamine DJOA Prosthesis. A Comparative Study
A. Chamay, A.M. Meythiaz (Geneva, Switzerland)
The Implantation of Proximal InterPhalangeal Silastic Prostheses after Longer Arthrodesis
A. Obiltschnig, Th. Kestil (Klagenfurt, Austria)

15.05 - 15.55 Trapeziometacarpal Joint Replacement: Biomechanics
(Moderators: G. Sennwald, P. Ledoux)
Experimental Study on the Stability of the CarpoMetacarpal Joint of the Thumb
C. Jantea, R. Claesens, W. Rüther (Düsseldorf, Germany)
A Three-Dimensional Biomechanics Study of the CarpoMetacarpal Joint and a Prosthesis using Medical Imaging
F. Lbathe-Lassays, C. Rumelhart, J.J. Comtet (Lyon, France)

15.55 - 16.15 Coffee-break

16.15 - 18.20 Trapeziometacarpal Joint Replacement: New Implants, Clinical Applications
(Moderators: G. Sennwald, P. Ledoux)
A New Trapeziometacarpal Prosthesis. A Report of 60 Cases
Ch. Lebrun, L. Lafosse, E. Carpenter, F. Moutet, Ch. Sartorius (Grenoble, France)
Cementless Total Trapeziometacarpal Prosthesis - Principles of Conception and Personal Series
P. Ledoux (Brussels, Baudour, Belgium)
Total Trapeziometacarpal Guepar Arthroplasty in Trapeziometacarpal Arthritis
J.Y. Ahnot, D. Beal, C. Oberlin and the Guépar Group (Paris, France)
Cementless Total Trapeziometacarpal Prosthesis Failure - Multicentric Study
P. Ledoux (Brussels, Baudour, Belgium)
Interposition-Arthroplasty of the CarpoMetacarpal Joint of the Thumb with the Abductor Pollicis Longus
C. Jantea, R. Claesens, W. Rüther (Düsseldorf, Germany)

18.20 - 19.00 Panel Discussion: Metacarpophalangeal, InterPhalangeal and CarpoMetacarpal Joint Replacement
(Moderator: K.N. An)
Saturday, April 29

08.00 - 10.55  **Total Wrist Joint Replacement: Biomechanics, Clinical Applications, Alternative Reconstructive Procedures**
(Moderators: H.C. Meuli, A. Potaznik)
- Anatomy and Kinematics of the Wrist
  G. Sennevald (Switzerland)
- Biomechanical Approach to the Wrist
  P. Ledoux, D. Lambin, R. Targowski, G. Guerlemant (Brussels, Mons, Belgium)
- The Rheumatoid Wrist - Therapeutic Approach
  B.R. Simmen (Zürich, Switzerland)
- Total Wrist Arthroplasty - a 25 Year Experience
  H.C. Meuli (Bern, Switzerland)
- Clinical and Radiological Study of 50 Guepar Wrist Total Protheses
  J.Y. Alnot, L. Le Breton, J.L. Condamine, J.Y. Aubriot - (Paris, Angers, Caen, France)
- Implantation of a Total Wrist Joint with Implantation of an Ulnar Head with Additional Reconstruction of the Extensor Tendon Apparatus in Hypothermia
  A. Obiltschnig, Th. Klaeslin - Klagenfurt, Austria
- Total Arthrodesis of the Wrist
  H. Lemaire, J.J. Rombouts (Liège, Louvain-en-Woluwe, Belgium)

10.55 - 11.15 Coffee-break

11.15 - 12.30  **Total Elbow Replacement**
(Moderators: C. Jantea, L. Fabeck)
- Loose-Hinge Total Elbow Arthroplasty - an Experimental Study of the Effects of Implant Alignment on Three-Dimensional Elbow Kinematics and on Muscle Moment Arms
  F. Schuind, S. O'Driscoll, S. Korinek, K.N. An, B.F. Morrey (Brussels, Belgium, and Rochester, MN, USA)
- GSB-III Elbow Arthroplasty. Biomechanics and long-term Results
  B.R. Simmen, N. Gschwend (Zürich, Switzerland)
- Guepar Elbow Arthroplasty
  J.Y. Alnot, Ph. Bellemère, B. Augereau and the Guépar Group (Paris, France)

12.30 - 14.00 Lunch

14.00 - 16.05  **Shoulder Replacement: Anatomy, New Implants, Clinical Applications**
(Moderators: J.Y. Alnot, H. Lemaire)
- Anatomy of the Shoulder as applied to Joint Replacement
  M. Rooze (Brussels, Belgium)
- Morphological Study of the Humeral Proximal Epiphysis
  P. Boileau, G. Walch (Nice, Lyon, France)
- Shoulder Destructive Processes in Rheumatoid Arthritis
  J.J. Rombouts, C. Deconinck, J.P. Devogelaer, J. Malghem (Louvain-en-Woluwe, Belgium)
- Neer Shoulder Prosthesis - Results related to the Etiology
  P. Boileau, G. Walch (Nice, Lyon, France)
- Cementless Unconstrained Total Shoulder Replacement
  N. Reissis, J.J.L. Bayley (Stanmore, England)

16.05 - 16.25 Coffee-break

(Moderators: B.R. Simmen, J.J. Rombouts)
- Design Rationale for a new Fixed-Fulcrum Total Shoulder Replacement
- Clinical Testing, Radiological Analysis and Cybex Evaluation after Shoulder Prosthesis Replacement
  L. Fabre, P. Remy, Ph. Tollet, S. El Banna, E. Fumière, F. De Keyser, F. Schuind, F. Burny (Brussels, Belgium)
- A Hybrid Fixed-Fulcrum Type of Total Shoulder Replacement
  N. Reissis, J.J.L. Bayley (Stanmore, England)
- An Alternative Reconstructive Procedure for Displaced Four-Part Proximal Humeral Fractures
  T. Farkas, A. Renner, L. Jancsor (Budapest, Hungary)
- Alternative Reconstructive Procedure - Shoulder Arthrodesis using Combined External and Internal Fixations
  M. Vancabeke, D. Dasnoy, F. Schuind, F. Burny (Brussels, Belgium)

18.20 - 19.00 Panel Discussion: Wrist, Elbow and Shoulder Total Replacement
(Moderator: F. Schuind)

19.00 Summary and Conclusions
F. Schuind, K.N. An

19.30 - 24.00 Visit of downtown Brussels and dinner in the city.
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.

Language
English.

Information for presenters
Most lectures are allocated 25 minutes (20 min talk + 5 min discussion).
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 28 and April 29 from 07.15 to 19.00. Each presenter should check with the technician in the preview room and introduce himself to the moderator 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 April 29, 1995. 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.

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 27 and April 30. One of us will meet you on April 27, 15 min prior to the departure of the bus, at the Airport meeting point (level arrivals).

Timetable:

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Genval may also be reached by car (15 min from Brussels on Highway E411 Brussels-Namur-Luxembourg).
Registration Fees
Before Dec 31, 1994 14000 BEF (1)
After Dec 31, 1994 15000 BEF (1)
Resident/Student/Physiotherapist/Nurse 8000 BEF (2)
Optional: Banquet in downtown Brussels (April 29) 2500 BEF (3)

(1) Fees include meeting attendance, book of abstracts, lunches, welcome reception on April 27, and transport by coach from and to the airport on April 27 and April 30. 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 not 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 Superieur', ASBL, Brussels.

Bank: CGER 001-2343991-62 (GEMS).

The registration desk will be open at the Château du Lac during the following hours:
April 27: 15:00 - 19:00
April 28: 07:30 - 17:00
April 29: 07:30 - 17:00

Cancellation
In the event of cancellation, a full refund (less 4,000 BEF as a handling fee) of the registration fees may be obtained provided that a written notification is received by Jan 1, 1995. A 50% refund will be made for cancellations received by March 1, 1995. No refunds will be made thereafter.

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

Social program
Paying excursions will be organized for accompanying persons on April 26 and April 29.

Weather
The weather should be sunny with mild temperatures. It may be raining.

Congress secretariat
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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
Special requests (dietetics, etc.)

Please fill in below as appropriate

☐ I will participate in the Upper Extremity Arthroplasty 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