BRUSSELS HAND/UPPER LIMB INTERNATIONAL SYMPOSIUM

Genval
Brussels, Belgium
January 18-19, 2013

CURRENT TRENDS AND INNOVATIONS IN UPPER EXTREMITY ARTHROPLASTY

PROGRAM

www.brusselshandsymposium.eu
AIMS AND FORMAT

The 21st edition of the annual Brussels/Genval Symposium will take place Friday January 18 and Saturday January 19, 2013. The Symposium is dedicated to a specific interdisciplinary topic involving the hand and the upper limb. The 21st edition will cover Upper Extremity Arthroplasty. The Château du Lac at Genval will again be the beautiful venue of this symposium. The previous meetings have been attended by 80-150 participants, from 15-25 different countries. In 1995, the topic was already on upper extremity joint replacement; this symposium was sponsored by the European Society of Biomechanics, and this resulted in the publication of the book “Recent Advances in Upper Extremity Arthroplasty” (K.N. An and F. Schuind, editors – World Scientific, Singapore, 1997). For the last two decades, spectacular progress has been made in upper extremity joint replacement. Basic bio - mechanical knowledge now allows us to better apprehend the forces applied to the artificial joints, possibly influencing their durability. We also have a better understanding of the kinematics after various upper extremity joint replacements. New materials, like pyrocarbons, have appeared, leading to a revival of the resectioninterpositionarthroplasty concept. New implants have been designed, for example for distal radio-ulnar joint replacement. Improved anaesthesiology allows prolonged postoperative pain control. New surgical techniques have been developed, for example arthroscopic joint osteoplasty in early osteoarthritis, preserving the joint while removing the impinging osteophytes; at a later stage, it is possible to perform arthroscopic resection-arthroplasty, for example trapeziectomy or even proximal carpal row resection, without the morbidity of an arthrotomy. As at the hip, muscle-sparing approaches allow better postoperative functional results. Resurfacing implants have been developed for various upper extremity joints. Navigation techniques have limited but interesting applications at the upper limb. Better methods of rehabilitation and of evaluation of the results have been proposed. In parallel, there have been as well progresses in conservative techniques; for example, for trapezio-metacarpal osteoarthrosis, the techniques of ligamentoplasty and of osteotomy have been refined; better bone fixation methods are now available for complex proximal or distal humerus fractures.

The indications of arthroplasty have in parallel markedly evolved. Rheumatoid arthritic joint destructions have become rare, owing to the progresses in disease-modifying anti-rheumatic drugs. Reversed shoulder prostheses, initially reserved for the treatment of cuff-tear arthropathy, are quite frequently implanted in comminuted proximal humeral fractures. There is as well a tendency to treat comminuted distal humeral fractures by hemiarthroplasty or linked total elbow arthroplasty, at least in elderly patients. Resurfacing implants are mostly used for osteonecrosis indications. Radial head excision is now rarely performed after a comminuted fracture, in favour of monopolar or bipolar radial head hemiarthroplasty, and total capituloradial prostheses are now available when the destruction involves both sides of the joint. Better total wrist prosthetic designs may very soon enlarge the indications of joint replacement at this level. Sileatic implants are less frequently used than previously, except at the fingers. Vascularized joint transfers from the foot allow sophisticated reconstructions in selected indications. The indications of denervation, of allograft joint replacement, and of arthrodesis have become infrequent – but arthrodesis remains the treatment of choice of thumb metacarpophalangeal joint arthritis. We miss in general evidence-based trials: comparative prospective assays are lacking, to evaluate the place of each treatment option.

Due to the rapidly growing number of upper extremity joint replacements, complications have become more frequent, and salvages are sometimes quite difficult. Like at the lower extremity, peri - prosthetic fractures do occur in elderly patients. Loosening is still a major problem after shoulder (glenoid component), elbow and wrist replacement. Prosthetic infections are also seen; the risk is especially high at the elbow, where the joint is close to the poorly vascularized skin, especially in posttraumatic situations. Propiono - bacterium acnes infections seem to affect especially the shoulder. At the lower extremity, the current recommendations of treatment are lavage for early infection, and one-stage or two-stage exchange for late infections, to eradicate the persistent biofilm. Are these guidelines applicable at the upper extremity? Arthroplasty can be especially challenging after en-bloc resection of an upper extremity tumour, as the possibilities of reconstruction using a custom-made megaprosthesis are quite limited, as compared to the hip and knee. The solution is sometimes the combination of an allograft or of a vascularized autograft, with a conventional prosthesis.

The primary goals of the Brussels/Genval annual upper limb Symposium, gathering together in a first-class resort close to Brussels experts from different fields (the previous Symposia have been attended by
orthopaedic, plastic, paediatric and general surgeons, anatomists, physiotherapists, prosthetists, rheumatologists, anaesthesiologists, pain specialists, radiologists, nuclear medicine scientists, immunologists, pathologists, engineers and basic scientists), are to promote the exchange of ideas, to establish guidelines on a consensual basis, and to foster collaborative investigations among various specialists. Beside invited lectures, a limited number of free presentations will be accepted. Much time will be set aside for the discussions.

SPECIFIC AIMS

- To summarize the current progresses in upper extremity arthroplasty, from the shoulder to the fingers (including non-prosthetic arthroplastic reconstructions); to evaluate new concepts, surgical techniques, adapted physiotherapy and evaluation of the results;
- To discuss basic biomechanical research;
- To assess – also in the patient’s perspectives - the innovative techniques, the clinical results and the complications;
- To formulate on these bases recommendations to the medical community;
- To discuss unsolved problems and possible solutions;
- To explore future directions of research.

PROGRAM DIRECTOR

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PRELIMINARY PROGRAM

THURSDAY, JANUARY 17, 2013

17.00 - 18.00  Registration
19.00        Free evening

FRIDAY, JANUARY 18, 2013

07.30 – 17.00  Registration

08.10 – 10.20  SESSION 1: AN INTRODUCTION TO THE SYMPOSIUM (1)
(Moderators: K. Yamaguchi, J. Bahm)

08.10  Opening Address
F. Schuind (Brussels, Belgium)

08.15  Aetiology and Treatment of Osteonecrosis. An Update
V. Gangji (Brussels, Belgium)

08.30  Management of Early Rheumatoid Arthritis
P. Verschueren (Leuven, Belgium)

08.45  Biomechanics of GlenoHumeral OsteoArthrosis
P. Blaimont, A. Taheri (Brussels, Belgium)

09.00  Discussion

09.15  Finite Element Modelling and Optimization of Trapezio-Metacarpal Arthroplasty
D. Farhat, P. Ledoux, G. Guerlement, D. Lamblin (Mons, Belgium)

09.30  Discussion

09.35  Update on the Treatment of Shoulder Fractures
C.E. Thélu (Nice, France)

09.55  Total Elbow Arthroplasty for Fractures. Only for Elderly?
R. van Riet (Deurne, Brussels, Belgium)

10.10  Discussion

10.20  Coffee break and Visit of the Commercial Exhibition

10.40 – 13.00  SESSION 2: AN INTRODUCTION TO THE SYMPOSIUM (2)
(Moderators: Ch. Thélu, F. Van Glabbeek)

10.40  The Use of 3D Planning and Patient Specific Guides and Implants for Upper Extremity
Reconstruction
F. Verstreken (Deurne, Belgium)
10.55 Discussion
11.00 **Allograft and/or Prosthesis for Reconstruction of Massive Defects of the Elbow?**
O. Barbier, X. Libouton, C. Delloye (Brussels, Belgium)

11.15 Discussion
11.20 **Tumors and Bone Defect Reconstruction of the Upper Extremity**
M. Gebhart (Brussels, Belgium)

11.35 Discussion
11.40 **Management of Infected Upper Extremity Arthroplasty**
J. Stuyck, P. Debeer (Leuven, Belgium)

11.55 **Revisions in Shoulder Arthroplasty**
K. Yamaguchi (Saint-Louis, MI, USA)

12.15 Discussion
12.25 **Value of the Functional Scores in Aged Individuals**
D. Mouraux, Ch. Robert, C. Bourdon, F. Schuind (Brussels, Belgium)

12.40 Discussion
12.45 **Painful Arthroplasty due to Postoperative Neuroma**
J. Bahm (Brussels, Belgium and Aachen, Germany)

12.55 Discussion
13.00 Lunch and Visit of the Commercial Exhibition

14.10 - 14.50 **SESSION 3: PAIN CONTROL FOR UPPER EXTREMITY ARTHROPLASTY**
(Moderators: D. Mouraux, J.P. Moermans)

14.10 **Anaesthesia for Upper Extremity Joint Replacement, State of the Art**
P. Pandin (Brussels, Belgium)

14.25 **Perioperative Pain Relief**
E. Hendrickx (Deurne, Belgium)

14.40 Discussion

14.45 – 16.10 **SESSION 4: SHOULDER ARTHROPLASTY AND ALTERNATIVES (1)**
(Moderators: Ch. Thélù, L. De Wilde)

14.45 **3D GlenoHumeral Relationship in Shoulder Arthropathy**
A. Van Tongel (Ghent, Belgium)

15.00 Discussion
15.05 **Biomechanics of the Reverse Total Shoulder Prosthesis**
L. De Wilde (Ghent, Belgium)

15.20 **Discussion**

15.25 **Total Shoulder Arthroplasty in Cases of Glenoid Deficiency**
K. Yamaguchi (Saint-Louis, MI, USA)

15.45 **Glenoid Bone Grafting in Revision Shoulder Arthroplasty**
O. Verborgt (Deurne, Belgium)

16.00 **Discussion**

16.10 **Coffee break and Visit of the Commercial Exhibition**

**SESSION 5: SHOULDER ARTHROPLASTY AND ALTERNATIVES (2)**

(Moderators: K. Yamaguchi, K. Cermak)

16.30 **Results after Bony Increased Offset Reverse Shoulder Arthroplasty (BIO-RSA)**
Ch. Thélu (Nice, France)

16.50 **Patient Specific Instrumentation for Glenoid Implantation during Shoulder Arthroplasty**
O. Verborgt (Deurne, Belgium)

17.00 **Discussion**

17.10 **Outcomes of Reversed Total Shoulder Arthroplasty with the Anatomical Shoulder Inverse/Reverse Prosthesis. Preliminary Results at Two-Year Follow-Up of an International Multicenter Study**
O. Verborgt (Deurne, Belgium)

17.30 **Discussion**

17.35 **Outcome of Humeral Head Resurfacing with Tendon Graft Interposition Arthroplasty and Tendon Transfer for Massive Rotator Cuff Tear Associated with Arthritis**
B. Elhassan (Rochester, MN, USA)

17.42 **Discussion**

**SESSION 6: SHOULDER ARTHROPLASTY - ROUND TABLE AND CASE PRESENTATIONS**

(Moderators : O. Verborgt, A. Van Tongel)

18.30 – 23.00 **Optional: Social Program: Guided visit at the Royal Museum for Central Africa**
The Royal Museum for Central Africa (RMCA) in Tervuren is one of the world’s most fascinating and visually striking institutions devoted to Africa. The Museum is showcased within a beautiful listed building, surrounded by a vast park with ponds and formal gardens, and employs its unique collections to raise the awareness of a large and diverse audience.

**Dinner at the Royal Museum**
**SATURDAY, JANUARY 19, 2013**

08.30 – 09.55  **SESSION 7: ELBOW ARTHROPLASTY AND ALTERNATIVES (1)**

(Moderators: K. Yamaguchi, R. van Riet)

08.30  **Linked, Unlinked or Convertible Total Elbow Arthroplasty**
K. Yamaguchi (Saint-Louis, MI, USA)

08.50  Discussion

08.55  **Traumatic Indications of Elbow Arthroplasty**
M. Mizher, W. El-Kazzi, F. Schuind (Brussels, Belgium)

09.02  **Distal Humerus Hemiarthroplasty. A Report of Six Cases**
A. Heijink, D. Eygendaal (Amsterdam, Breda, The Netherlands)

09.09  Discussion

09.15  **Humeral Component Insertion Technique for Cases of Distal Humeral Large Bone Defects in Total Elbow Arthroplasty**
R. Ikeguchi, S. Matsumoto, H. Takeuchi, Y. Okutani, T. Yoshikawa, M. Kanamori, H. Kyo, G. Kimura, B. Otsuki, E. Onishi, K. Iwaki, K. Kawanabe (Kobe, Japan)

09.22  **Reconstruction of the Elbow Joint after Blast Injury with Arthroplasty using a Custom Made Total Elbow Prosthesis connecting Humerus, Radius and Ulna. A Case Report**
A. Franke, S. Hentsch, M. Johann, E. Kollig (Koblenz, Germany)

09.29  Discussion

09.35  **Revision Elbow Arthroplasty. Long Term Resurfacing Results, Staging of Metallosis and Revision Technique**
I. Degreef, L. De Smet (Leuven, Belgium)

09.50  Discussion

09.55  Coffee-break and Visit of the Commercial Exhibition

10.15 – 11.20  **SESSION 8: ELBOW ARTHROPLASTY AND ALTERNATIVES (2)**

(Moderators: I. Degreef, R. van Riet)

10.15  **Radial Head: from Biomechanics to Prosthetic Replacement. Where are we now?**
F. Van Glabbeek (Antwerp, Belgium)

10.30  **Elbow Biomechanics after Radial Head HemiArthroplasty**
F. Moungondo, R. van Riet, V. Feipel, F. Schuind (Brussels, Belgium)

10.37  Discussion

A. Heijink, B.F. Morrey, D. Eygendaal (Amsterdam, Breda, The Netherlands and Rochester, MN, USA)

10.52  Discussion
10.55 Possibilities of Elbow Denervation

11.02 Discussion

11.05 Elbow Arthrodesis as a Salvage Procedure for Failed Total Elbow Arthroplasty
R. van Riet (Deurne, Brussels, Belgium)

11.15 Discussion

11.20 – 12.35 SESSION 9: WRIST ARTHROPLASTY AND ALTERNATIVES
(Moderators: O. Barbier, P. Ledoux)

11.20 Our Results of Wrist Arthroplasty versus Arthrodesis. Short to Mid-Term Results in a Series of Thirteen Cases
M. Van Nuffel, L. De Smet, I. Degref (Leuven, Belgium)

11.35 The Re-Motion Total Wrist Arthroplasty. Experience from a Registry Based, Multicentre Study
M.E.H. Boeckstyns, G. Herzberg (Hellerup, Denmark and Lyon, France)

11.42 Uncemented Total Wrist Arthroplasty. Long Term Results
A.P.C. Weiss (Providence, RI, USA)

11.49 Discussion

W. El-Kazzi, J. Bahm, F. Schuind (Brussels, Belgium)

12.05 Discussion

12.10 Scheker Arthroplasty. Preliminary Results of Linked DRUJ Resurfacing in a Series of 15 Cases
I. Degref, L. De Smet (Leuven, Belgium)

12.25 Outcome of DRUJ Reconstruction with Partial Head Replacement and Meniscal Allograft Interposition
B. Elhassan (Rochester, MN, USA)

12.27 Discussion

12.35 Coffee break and Visit of the Commercial Exhibition

13.30 – 16.05 SESSION 10: TRAPEZIO-METACARPAL ARTHROPLASTY AND ALTERNATIVES (1)
(Moderators: F. Verstreken, F. Stockmans)

13.30 Thumb CMC Arthritis Update. Lessons Learned from Big Joints
A.L. Ladd, E. Hagert, J. Lee, A. Zhang, S. Van Nortwick (Stanford, CA, USA)

13.37 Discussion

13.40 PathoClinical Correlations between Location and Size of Joint Degeneration and Preoperative Imaging
Analyzing Trapezial Trabecular Microstructure using Flat-Panel Volume CT
A.L. Ladd, M. Pouliot, R. Fahrig, C. Barr, R. Cheng (Stanford, CA, USA)

The Trapeziometacarpal Ligaments: Importance of their Anatomy in choosing a Surgical Approach
P. D’Agostino, F. Kerkhof, M. Shahapbour, F. Stockmans, J.P. Moermans, E. Vereecke (Kortrijk and Brussels, Belgium)

The Unavoidable Shortening of the Thumb after Trapeziectomy
S. De Smet, J.P. Moermans (Brussels, Belgium)

Suture Suspension Thumb CarpoMetacarpal Arthroplasty
A.P. Weiss (Providence, RI, USA)

Trapezio-Metacarpal Joint Replacement with ARPE and MAIA Implants. A Long Term Review of 159 implants
S. Brondello, E. Clegg, J.P. Moermans (Brussels, Belgium)

Clinical and Radiological Outcomes of the Ivory® Arthroplasty for Trapeziometacarpal Joint Osteoarthritis with a Minimum of Five Years of Follow-Up: A Prospective Single-Center Cohort Study
J.F. Goubau, C.K. Goorens, P. Van Hoonacker, D. Kerckhove, B. Berghs, Th. Scheerlinck (Brugge, Brussels, Belgium)

A minimum of Five-Year Follow-Up Results of the ARPE Prosthesis for Painful Degenerative Trapeziometacarpal Joint
F. Stockmans, J. Barth, J. Van Haecke, M. Dezillie (Kortrijk, Belgium)

Natural Radiological Evolution after Total Trapeziometacarpal Arthroplasty
E. Clegg, E. Moest, P. Ledoux (Mons, Belgium)

Sonographic Evaluation of the Interposed Tissue after Trapeziectomy and First Metacarpal Suspension – Minimum Two Years Follow-Up
G. Putterie, V. Créteur, D. Mouraux, Ch. Robert, W. El-Kazzi, F. Schuind (Brussels, Belgium)

Long Term Outcome of Trapeziectomy with Ligament Reconstruction/Tendon Interposition versus Thumb Basal Joint Prosthesis
L. Vandenbergh, I. Degreet, K. Diddens, S. Fiews, L. De Smet (Leuven, Belgium)

Trapeziometacarpal Osteoarthritis: Arthroplasty or Trapeziectomy?
W. El-Kazzi, J. Bahm (Brussels, Belgium and Aachen, Germany)
15.50 Alternatives to Arthroplasty in Trapeziometacarpal Osteoarthritis
F. Stockmans (Kortrijk, Belgium)

16.05 Treatment of De Quervain’s Disease: Decompression of the First Dorsal Extensor Compartment of the Wrist by Tendinous Resection and Transfert
C. Colson (Liège, Belgium)

16.10 Discussion

16.20 Coffee break and Visit of the Commercial Exhibition

16.45–17.20 SESSION 11: FINGER ARTHROPLASTY AND ALTERNATIVES (2)
(Moderators: L. De Smet, W. El-Kazzi)

16.45 Joint Problems in Congenital Disorders of the Hand
N. Cuylits, J.P. Moermans (Brussels, Belgium)

17.00 Discussion

17.05 Swanson Silastic Implant Replacement of Arthritic Finger Joints. A Retrospective Review of 51 Prostheses
V. D’hondt, J.P. Moermans (Brussels, Belgium)

17.12 Discussion

17.15 PIP Joint Replacement: Resurfacing versus Swanson Arthroplasty
I. Degreef, L. De Smet (Leuven, Belgium)

17.25 Discussion

17.30 Alternative to Distal Interphalangeal Joint Arthrodesis: A Report of 100 Cases using a Shape-Memory Intramedullary Staple
R. Metasa, C. Zirak, B. Amara (Brussels, Belgium and Montpellier, France)

17.37 Discussion

17.40 – 18.10 SESSION 12: ELBOW, WRIST AND HAND ARTHROPLASTY - ROUND TABLE AND CASE PRESENTATIONS – SUMMARY AND CONCLUSIONS
(Moderators: F. Schuin, R. van Riet)

17.40 Ten Questions to the Floor and the Faculty

17.55 Summary and Conclusions
F. Schuin, J. Bahm, K. Cermak, R. van Riet (Brussels, Deurne, Belgium)

18.10 End of Symposium
SYMPOSIUM INFORMATION

http://www.brusselshandsymposium.eu

SYMPOSIUM VENUE
Château du Lac
Avenue du Lac 87
1332 Genval - Belgium

REGISTRATION FEES
Registration On-line at: http://www.brusselshandsymposium.eu

Before 1 December After 1 December
Regular Delegate (1) 470 500
Resident/Student (2) 350 350
Physiotherapist/Nurse 350 350
Optional: touristic visit and banquet (18 January 2013) (3) 100 100

(1) Fees include meeting attendance, congress bag with the abstract book and all related documents (certificates of payment and attendance, badge etc.), and lunches. Not included: hotel accommodation, meals except 2 lunches. 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 free of all bank charges and commissions.
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.

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

(3) Included: coach transport Genval, guided tour in the Museum, and dinner in a typical Belgian restaurant.

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, 2011. A 50 % refund will be made for cancellations received by January 15, 2012. No refunds will be made thereafter.

ACCOMMODATION
Château du Lac (5 stars hotel) (Venue)
15 km south of Brussels. An invigorating and sophisticated ambience, exquisite décor, fine cuisine. Free access available at the 'John Harris Fitness Centre' for participants accommodated at the Château.

Address:
Château du Lac, avenue du Lac, 87, B-1332 Genval, Belgium
Tel.: +32 2 655 71 11 – Fax +32 2 655 74 44 - E-mail: seminars.cdl@martinhotels.com
Participants can also be accommodated at the hotel "Le Lido"; a 3 stars hotel located about 2 km from the Château du Lac (no transport will be provided).
Indicative rate: single 160 €/night with breakfast.

Address:
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