IBRA International Bone Research Association

Program

IBRA Master Training Course

Realistic Treatment of Wrist and Elbow Fractures

June 16 – 18, 2016
Institute of Anatomy
University of Cologne, Germany

UNIKLINIK KÖLN

Chairmen:
Prof. Dr. Lars P. Müller
Prof. Dr. Hermann Krimmer

Foreword

Dear colleagues,

Within the last decade, a number of “new” potential OR indications have been developed for pathologies around the elbow joint. These include arthroscopic and (hemi)-prosthetic options. Considering short-term results especially of the partial and full prosthetic treatments of elbow pathologies, it is obvious that our ultimate goal should be the anatomical and biological reconstruction of the bony and ligamentous injury. Artificial joint elements should be avoided if possible.

Besides the new developments in the field of osteosynthesis techniques, the reconstruction of soft tissue injuries, especially the ligamentous injuries, play a major role with regard to the elbow joint.

In the context of the current course concept with fracture production on the soft tissue intact specimens, we address the bony stabilization techniques and possibilities of soft tissue reconstruction.

We look forward to welcoming you in Cologne to practically oriented days full of interesting discussions with pre-fractured specimens.

Prof. Dr. med.
Lars P. Müller

PD Dr. med.
Klaus Burkhart

Dr. med.
Kilian Wegmann

Foreword

Dear colleagues,

Complex articular fractures of the distal radius still remain challenging. Despite the technical progress with the fixed angle devices, inadequate fixation or secondary dislocation are common risks for failure. Decision making for treatment requires precise analysis of the fracture by x-ray and CT-scan.

The Master Training Courses in Cologne are focused on exercises in a realistic clinical setting. An intensive theoretical part will be followed by a practical part with pre-fractured specimens. Based on CT and X-ray images the participants discuss in small groups the best treatment strategy including tips and tricks given by their instructors. Afterwards internal fixation of the fracture is done with active exchange between participants and instructors.

Finally all groups will present their cases and discuss it in common, which allows to profit from the experiences made by each other.

I look forward to welcoming you in Cologne to a memorable, interactive event.

Prof. Dr. med.
Hermann Krimmer
IBRA Past President

Faculty
(In alphabetical Order)

Wrist	Chairman: Prof. Dr. Hermann Krimmer
Dr. Jason Harvey	Richmond AUS jharvey@osv.com.au
Prim. Dr. Wolfgang Hintringer	Vienna AT w@hintringer.at
Prof. Dr. Hermann Krimmer	Ravensburg DE krimmer@handchirurgie-ravensburg.de
Prof. Dr. Rainer Meffert	Würzburg DE meffert_r@ukw.de
Dr. Emmanouil Skouras	Cologne DE emmanouil.skouras@uk-koeln.de
Dr. Frank Nienstedt	Bozen IT info@handservice.it
Prof. Dr. Adam C. Watts	Wrightington UK adamcharleswatts@gmail.com

Faculty
(In alphabetical Order)

Elbow	Chairman: Prof. Dr. Lars P. Müller
PD Dr. Klaus Burkhart	Pforzheim DE klaus.j.burkhart@gmail.com
Dr. William Geissler	Jackson USA 3doghill@msn.com
Dr. Jason Harvey	Richmond AUS jharvey@osv.com.au
Prof. Dr. Rainer Meffert	Würzburg DE Meffert_R@ukw.de
Prof. Dr. Lars P. Müller	Cologne DE lars.mueller@uk-koeln.de
Dr. Kilian Wegmann	Cologne DE kilian.wegmann@uk-koeln.de
Prof. Dr. Adam C. Watts	Wrightington UK adamcharleswatts@gmail.com

Friday – June 17, 2016

7:30	**Bus transfer from art'otel to the Institute of Anatomy**	
7:45 – 8:00	**Registration**	
8:00 – 8:05	**Welcome**	***Lars P. Müller*** ***Hermann Krimmer***
8:05 – 9:35	**Radius Fractures Theoretical Part**	***Hermann Krimmer***
8:05 – 8:15	Fracture simulator – a story from Cologne	*Kilian Wegmann*
8:15 – 8:25	Anatomy and Biomechanics – what`s important?	*Wolfgang Hintringer*
8:25 – 8:35	Classification: The good, the bad and the ugly	*Adam C. Watts*
8:35 – 8:45	Locking plates – technical overview	*Medartis*
8:45 – 8:55	Locking plates – clinical relevance	*Rainer Meffert*
8:55 – 9:05	Palmar approach: tips and tricks	*Hermann Krimmer*
9:05 – 9:15	Dorsal approach: when and how?	*Emmanouil Skouras*
9:15 – 9:25	Management of complex distal radius fractures	*Frank Nienstedt*
9:25 – 9:35	Concomitant injuries (SL ligament and broken ulnar styloid) – when do they need treatment?	*Jason Harvey*
9:35 – 10:15	**Break**	

Friday – June 17, 2016

10:15 – 17:00	**Radius Fractures Practical Part**	***Hermann Krimmer***
10:15 – 10:30	Medartis Implants and Instruments	*Medartis*
10:30 – 12:00	Case 1: All groups (instructor and 4 participants) receive a fractured specimen and x-ray CT and elaborate the case in the group	*All*
12:00 – 13:00	Presentation und Discussion Case 1	*Groups*
13:00 – 14:00	**Lunch**	
14:00 – 15:30	Case 2: All groups (instructor and 4 participants) receive a fractured specimen and x-ray/ CT and elaborate the case in the group	*All*
15:30 – 16:30	Presentation und Discussion Case 2	*Groups*
16:30 – 17:00	Summary and adjourn	*Hermann Krimmer*
17:00	Transfer to the hotel	
19:30	**Dinner Brauerei Gilden im Zims**	

Saturday – June 18, 2016

7:30	**Bus transfer from art'otel to the Institute of Anatomy**	
8:00 – 8:05	**Welcome**	***Lars P. Müller***
8:05 – 9:50	**Elbow Fractures Theoretical Part**	***Lars P. Müller***
8:05 – 8:20	Landmarks in diagnostics and approaches	*Kilian Wegmann*
8:20 – 8:35	Distal humerus fractures	*Rainer Meffert*
8:35 – 8:50	Proximal ulna fractures	*Klaus Burkhart*
8:50 – 9:05	Transolecranon fracture dislocation	*Adam Watts*
9:05 – 9:20	Radial head fractures	*William Geissler*
9:20 – 9:35	Coronoid fractures	*Lars P. Müller*
9:35 – 9:50	Terrible Triad	*Jason Harvey*
9:50 – 10:15	**Break**	

Saturday – June 18, 2016

10:15 – 17:00	**Elbow Fractures Practical Part**	***Lars P. Müller***
10:15 – 10:30	Medartis Implants and Instruments	*Medartis*
10:30 – 12:00	Case 1: All groups (instructor and 4 participants) receive a fractured specimen and x-ray/ CT and elaborate the case in the group	*All*
12:00 – 13:00	Presentation und Discussion Case 1	*Groups*
13:00 – 14:00	**Lunch**	
14:00 – 15:30	Case 2: All groups (instructor and 4 participants) receive a fractured specimen and x-ray/ CT and elaborate the case in the group	*All*
15:30 – 16:30	Presentation und Discussion Case 2	*Groups*
16:30 – 17:00	Summary and adjourn	*Lars P. Müller*

General Information

Chairmen:

Prof. Dr. Lars P. Müller, Cologne DE, Host
Prof. Dr. Hermann Krimmer, Ravensburg DE, IBRA Past President

Organized by

IBRA - International Bone Research Association, Basel/Switzerland

Registration & Information

IBRA Administration Office
Hochbergerstrasse 60E, CH-4057 Basel
Phone: +41 (0)61 319 05 05, Fax: +41 (0)61 319 05 19
info@ibra.ch, Website: www.ibra.ch

Registration Fees

	Wrist & Elbow	Wrist Part	Elbow Part
IBRA Member	EUR 1200	EUR 620	EUR 620
Non-Member	EUR 1350	EUR 700	EUR 700

Registration Deadline

June 6th, 2015

Accommodation

art'otel cologne
Holzmarkt 4
D-50676 Cologne

Rooms (for single use) incl. breakfast are available at EUR 105 per person per night. Bookings can be done via the registration website at: www.ibra.ch

Cancellation policy

For rooms that are canceled after 13.5.2016 the full price will be charged.

General Information

Methods of Payment

Credit Card VISA  Master Card 

Bank Transfer (EUR)	Bank J. Safra Sarasin AG, CH-4002 Basel
Account no.	6010055.4001
IBAN no.	CH17 0875 0060 1005 5400 1
Clearing no.	8750
SWIFT	SARACHBB

Refund Policy

All refunds must be requested in writing to the IBRA Adminstration Office. If written notification is received 3 weeks prior to the event, a full refund less a EUR 40 processing fee will be given. If written notification is received 10 days prior to the event, a refund of 50% of the registration fee will be given. For later notifications, there will be no refunds. Refunds will not be given for non-attendance.

General Information

Course Format

Since 2011, a multidisciplinary team of trauma surgeons from the University hospital of Cologne, biomechanics from the German Sport University and engineers has been specialised in creating realistic limb injuries of specimens in order to offer surgical training. Together with the University hospital of Cologne the team offers surgeons and orthopaedics practical training courses in which the participants get training on specimens with realistic bony and ligamentous injury patterns. To create these realistic osteoligamentous injuries with intact soft tissues, the team has designed a complex test-bench with multiple technical adaptations.

Compared to established courses on artificial bones or intact specimens, this new concept is designed to challenge advanced surgeons as well.

Before starting the treatment, the participants have to analyse the injury with the help of X-Ray and CT imaging. After the fracture classification, the surgeons discuss the approach and realise the surgical treatment. X-Ray images help to analyse the result of the treatment of the individual case and it can be discussed by the entire group.

For the indicated body parts elbow and hand, this team is able to create defined, realistic injuries. Further body parts such as shoulder and lower extremities, the team is working constantly to analyse individual sequences of injuries in order to design technical methods and to create realistic injuries.

Team members: Univ.-Prof. Dr. L. P. Müller, PD Dr. K. Burkhart, Dr. K. Wegmann, Univ.-Prof. Dr. G.-P. Brüggemann, Dipl. Ing (FH) K. Engel, M. Ebinger (M.Sc.), Robert Holz (M.Sc.).

General Information

Welcome Dinner

Thursday June 16, 2016

Time

20:00 h

art'otel cologne
Holzmarkt 4,
D-50676 Cologne
http://www.artotels.com/cologne

For all participants - costs included in the course fee

Course Location

Institut II für Anatomie
der Universität Köln
Gebäude 35
Joseph-Steltzmann-Straße 9
50937 Köln

(for taxi, please indicate house no. 65)

The level-1 trauma center is led by Prof. Dr. med. Lars P. Müller, a national and international renowned trauma surgeon with specialty in upper extremity surgery.

Annually more than 250 surgeries focus on the pathologies of the elbow-joint.

Specific indications for elective procedures of the elbow joint are:

- Acute and chronic instability of the elbow (e.g. after dislocation or chronic overuse)
- Fracture dislocation
- Malunion
- Septic joint disease
- Rheumatic disease of the elbow
- Primary and secondary arthritis of the elbow
- Prosthetic replacement of the elbow joint / Total elbow replacement
- Prosthetic replacement of the radial head
- Temporary stabilization with external fixators and dynamic external fixators
- Reconstruction of the medial and lateral collateral ligament with autologous and allogenic transplant
- Congenital deformities
- Post-traumatic correction of deformities and nerve injuries

The institution has established its own cadaver laboratory, which offers the possibility to undertake macro-anatomic and biomechanical studies. Regularly research projects are conducted also in cooperation with external renowned institutes. For example, in cooperation with the Technical University Jülich, 3-D imaging and finite element analyses of the upper extremity and the spine are conducted to investigate biomechanical questions.

Moreover, the institution is part of the “CCMB”, the Cologne Center for Mucoskeletal Biomechanics. The Center was founded in 2013 as a scientific cooperation between the Medical Faculty of the University of Cologne and the German Sport University Cologne and is an interface between basic and clinical research with the purpose of a pragmatic translational research (“From bench to bedside and back”). The research focuses of the CCMB are musculoskeletal injuries and diseases. The center is composed of different institutes from both universities in order to concentrate expertise and to create synergies. The research of the diverse disciplines on musculoskeletal injuries and diseases will be collated complementing each other.

At the department we welcome fellows and exchange scientists on a regular basis. Research fellows from all over the world fulfill their doctorate and commit themselves to further research projects.

The young history of the institution is marked by patient oriented care, high-level surgical procedures and innovative as well as relevant research projects.

IBRA International Bone Research Association

IBRA is a financially independent, internationally oriented non-profit organization, for specialized clinicians and research scientists. IBRA's core activity is the future-oriented advancement of bone-tissue research and management focusing particularly on:

- Bone biology, including osteointegration, bone generation and soft tissue reaction
- Maxillofacial and orthopaedic rehabilitation
- Materials research including hardware development
- Biomechanics
- Tissue engineering
- Surgical procedures & clinical management

IBRA encourages the development of innovative solutions in a friendly, loyal atmosphere. Future-oriented open-mindedness and international acceptance form the basis for first-rate assistance in realizing modern research projects and promoting individual careers. As an international forum reaching across geographic and cultural borders, IBRA offers an up-todate network for the exchange of experience and knowledge in applied bone and tissue research.

History
IBRA was founded in Zurich, Switzerland on September 25, 2004 at the initiative of eighteen forward-looking clinicians. Its primary aims are the exchange of professional knowledge, promotion of new scientific developments, engineering of the musculoskeletal system, coordinated multi-centre research and highly specialized advanced training.

Research Support
IBRA offers financial support for research projects dealing with bone biology and the improvement or development of internal fixation devices for maxillofacial and limbs surgery. With the emphasis on innovation and suitability for practical application, 95% of the research budget goes towards applied research and clinical studies and 5% towards basic research.

Education
IBRA's education area offers clinicians special courses on the application of specific methods of treatment. IBRA's particular concern is to train tomorrow's highly qualified research scientists. IBRA enhances its members' qualifications through a scholarship program.

Notes

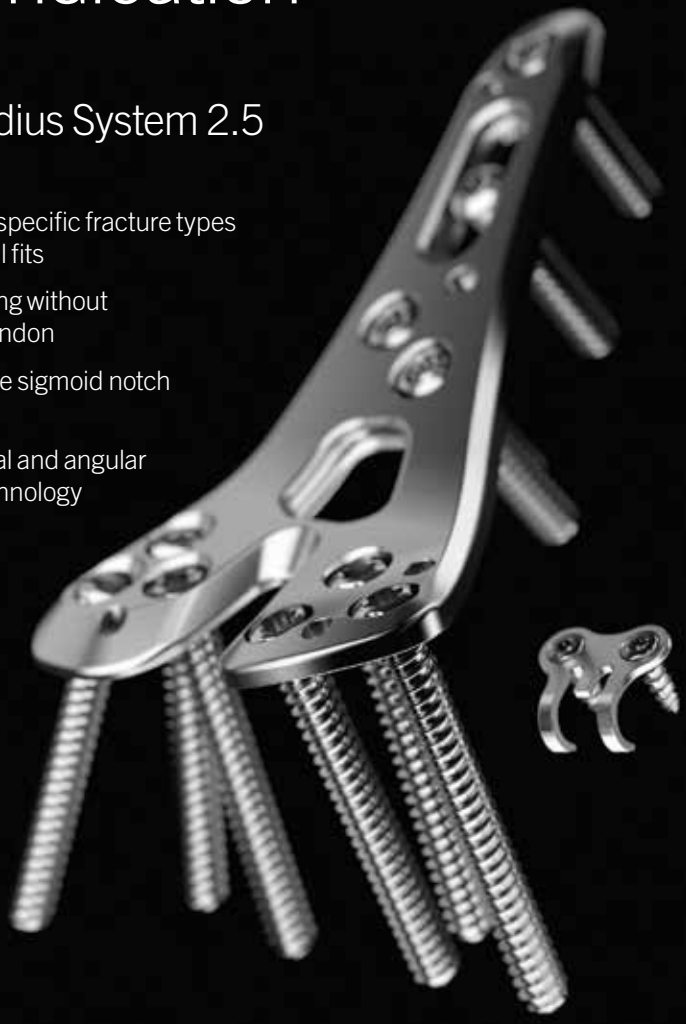
medartis®

PRECISION IN FIXATION

NEW
The Ideal Solution For Each Indication

APTUS® Distal Radius System 2.5

- Wide choice of plates for specific fracture types with improved anatomical fits
- Very distal plate positioning without compromising the FPL tendon
- Optimal stabilization of the sigmoid notch and lunate facet
- TriLock® – Multidirectional and angular stable (± 15°) locking technology



www.medartis.com

Notes

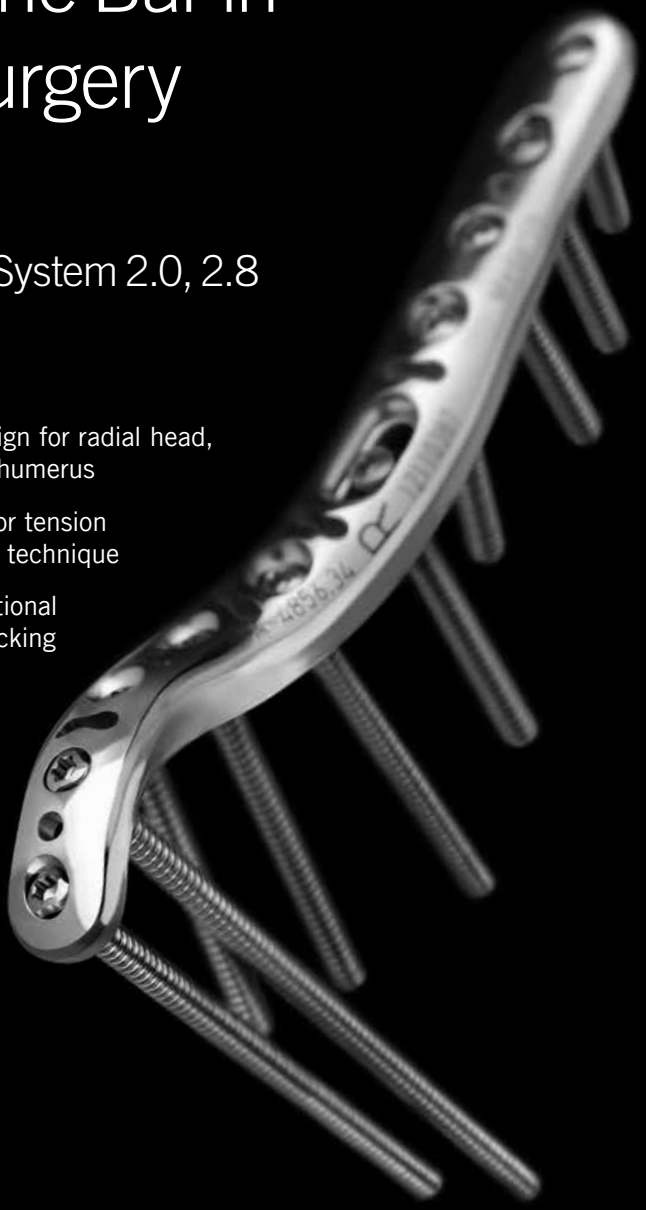
medartis®

PRECISION IN FIXATION

Raising the Bar in Elbow Surgery

APTUS® Elbow System 2.0, 2.8

- Anatomical plate design for radial head, olecranon and distal humerus
- Innovative implants for tension band / double plating technique
- TriLock® – Multidirectional and angular stable locking technology (±15°)
- Low plate profile for maximum soft tissue protection



www.medartis.com

IBRA
International Bone Research Association

Hochbergerstrasse 60E
CH-4057 Basel
Phone +41 61 319 05 05
Fax +41 61 319 05 19
info@ibra.ch
www.ibra.ch