



# **FINAL PROGRAMME**

# Thursday, 8 September

Time	Michelangelo 1	Michelangelo 2	Michelangelo 3	Caravaggio 1-2	Caravaggio 3-4	Caravaggio 5-6
08:30-10:00	ASAMI Symposium Non-Union Update Page 4	Instructional Course Hip Preservation Surgery in Young Adults Page 6	Invited Lecture & Free Papers Total Knee Arthroplasty I Page 10	Free Papers Spine Degeneration & Disc Page 14	Instructional Course Elbow Instability Page 18	Invited Lectures & Free Papers Hand & Wrist Page 21
10:00-10:30	Break					
10:30-12:00	Symposium Polytrauma Page 4	Free Papers Hip: Miscellaneous Page 7	Symposium How to Deal With Knee Problems Page 11	Symposium Avoiding Complications in Spinal Surgery Page 15	Free Papers Shoulder Arthroplasty & Arthroscopy Page 18	Symposium Evidence Based Guidelines & Recent Innovative Advances for the Treatment of Common Hand Affections Page 22
12:00-12:30	Plenary Lecture (in Michelangelo 1) – Rodolfo Capanna ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS					
12:30-14:00	Break			Industry-Sponsored Workshop	Industry-Sponsored Symposium	Break
14:00-15:30	Free Papers Polytrauma Page 5	Symposium Advanced Bearing in Arthroplasty Page 8	Free Papers Total Knee Arthroplasty II Page 12	Free Papers Spine Deformity & Tumour Page 16	Symposium Proximal Humerus Fractures: A Problem Not Solved Page 20	Symposium Microsurgical Vascularised Bone Grafts for Limb Reconstruction Page 23
15:30-16:00	Break					
16:00-17:30		Free Papers Revision of Hip Arthroplasty Page 9	Consensus Symposium Severe Knee Deformity in Total Knee Arthroplasty Page 13	AOSpine Symposium Current Controversies Page 17	Free Papers Shoulder & Elbow Page 20	SOFCOT Symposium Rotator Cuff Repair: Clinical & Morphological Results (1,351 cases) Page 24
18:15-19:45	OPENING CEREMONY					

Caravaggio 7-8	Bramante 3	Bramante 4	Bramante 6-7	Bramante 8-9	Tintoretto 2
<b>Young Surgeons Committee Symposium Direct Approach for Total Hip Arthroplasty</b> Page 25	<i>Invited Lecture &amp; Free Papers Tumours</i> Page 29	<i>Free Papers Treatment of Bone Infections</i> Page 33	<i>CAOS Symposium &amp; Free Papers Knee I</i> Page 37	<b>19<sup>th</sup> Cooperative Course for Polytrauma Management Beyond ATLS - Part II</b>	<i>Short Free Papers Foot &amp; Ankle</i> Page 43

Break

<i>Symposium Wireless Video Arthroscopy &amp; What's New in Sports Medicine: What's Hot &amp; What's Not!</i> Page 26	<i>Symposium Reconstructive Techniques in Musculo-skeletal Oncology: an Update</i> Page 30	<i>Symposium Post-Traumatic Infection</i> Page 34	<i>CAOS Symposium &amp; Free Papers Hip</i> Page 37	<i>Free Papers Lower Extremity Trauma I</i> Page 40	<i>Short Free Papers Paediatrics</i> Page 45
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<i>Industry-Sponsored Symposium</i>	Break				
<i>Invited Lecture &amp; Free Papers Sports Medicine of the Knee</i> Page 26	<i>Symposium Treatment of Limb Fractures in Armed Conflicts</i> Page 31	<i>Symposium Periprosthetic Infection</i> Page 35	<i>CAOS Symposium Knee II</i> Page 38	<i>Invited Lecture &amp; Free Papers Upper Extremity Trauma I</i> Page 41	<i>Short Free Papers Research</i> Page 46

Break

<i>Free Papers Sports Medicine: Miscellaneous</i> Page 27	<i>WOC Free Papers Developing World</i> Page 31	<i>Invited Lecture &amp; Free Papers Diagnosis of Bone Infection</i> Page 36	<i>CAOS Symposium &amp; Free Papers Other Uses of CAOS Technology</i> Page 39	<i>Free Papers Upper Extremity Trauma II</i> Page 42	<i>Short Free Papers Tumours</i> Page 48
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## Thursday, 8 September

### Michelangelo 1

08:30 - 10:00

#### ***ASAMI (Association for the Study & Application of the Method of Ilizarov) Symposium – Non-Union Update***

*Moderators:*

Reggie HAMDY (CANADA), Gamal HOSNY (EGYPT)

#### **NON-UNION – OVERVIEW**

Cengiz SEN (TURKEY)

#### **ROLE OF INTERNAL FIXATION IN THE MANAGEMENT OF NON-UNION**

Essam ELSHERIF (EGYPT)

#### **BONE GRAFTING IN NON-UNION**

Kamal ELGAAFARY (EGYPT)

#### **USE OF BIOLOGICS IN THE MANAGEMENT OF NON-UNIONS – AN UPDATE**

Reggie HAMDY (CANADA)

#### **BIOLOGICAL & MECHANICAL METHODS IN THE TREATMENT OF NON-UNION**

Hae-Ryong SONG (SOUTH KOREA)

#### **MANAGEMENT OF NON-UNIONS WITH ILIZAROV METHODS**

Gamal HOSNY (EGYPT)

10:00 - 10:30

***Break***

10:30 - 12:00

#### ***Symposium – Polytrauma***

*Moderators:*

Hans-Christoph PAPE (GERMANY), Gershon VOLPIN (ISRAEL)

#### **INITIAL TREATMENT OF POLYTRAUMATISED PATIENT AT THE SITE OF INJURY**

Roman PFEIFER (GERMANY)

#### **BIOLOGICAL CRITERIA OF POLYTRAUMA**

Peter GIANNOUDIS (UNITED KINGDOM)

#### **WHEN DO I PERFORM DCO?**

Gershon VOLPIN (ISRAEL)

**THE OPTIMAL PATIENT FOR EARLY TOTAL CARE**

James WADDELL (CANADA)

**SAFE DEFINITIVE SURGERY**

Hans-Christoph PAPE (GERMANY)

**MANAGEMENT OF MANGLED LIMBS**

Reinhard SCHNETTLER (GERMANY)

**RESPONSIBILITIES IN POLYTRAUMA – GENERALIST OR SPECIALIST?**

Vilmos VECSEI (AUSTRIA)

**DISCUSSION**

12:00 - 12:30

*Plenary Lecture – Rodolfo Capanna*

**ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**

Rodolfo CAPANNA (ITALY)

12:30 - 14:00

*Break*

14:00 - 15:30

*Free Papers – Polytrauma*

*Moderators:*

Michele ORANSKY VOINO (ITALY), Roman PFEIFER (GERMANY)

**45437 IVR-CT IN THE EMERGENCY ROOM MAKES IVR FAST FOR PELVIC RING INJURIES IN JAPAN**

Hiroyuki OKADA, Ken NISHIMURA, Hidenobu FUJITA, Souichirou KANEKO, Takehiro MATSUBARA, Sakae TANAKA (JAPAN)

**44346 PAEDIATRIC POLYTRAUMA: ANALYSIS OF MECHANISM, PATTERN AND OUTCOME IN A UNITED KINGDOM MAJOR TRAUMA CENTRE**

Gohar NAQVI (UNITED KINGDOM)

**44806 EVALUATION OF CLOTTING FACTOR DEFICIENCIES IN CHILDREN FOLLOWING MULTIPLE TRAUMA**

Manuel BURGGRAF, Elvira VAJNA, Max Daniel KAUTHER, Alexander WEGNER, Marcus JÄGER, Sven LENDEMANS (GERMANY)

**44544 VENOUS THROMBOEMBOLISM (VTE) PROPHYLAXIS INSTRUCTIONS IN ORTHOPAEDIC OPERATION NOTES AT A MAJOR TRAUMA CENTRE**

Mohammed Saif SAIT, Leslie ING, Kirsty DREW, Aaditya SINHA, Richard ALLOM, Kumar KUNASINGAM (UNITED KINGDOM)

- 44264 DAMAGE CONTROL SURGERY FOR FEMORAL FRACTURES IN POLYTRAUMA PATIENTS**  
Olivera LUPESCU, Mihail NAGEA, Doriana LUPESCU, Paul NICULESCU, Gheorghe Ion POPESCU (ROMANIA)
- 42592 THE FAULTY EXTERNAL FIXATION: A SCREENING OF FAULTS IN 212 EXTERNAL SKELETAL FIXATORS**  
Ameer Mohammad ALBARKAWEE (IRAQ)
- 44222 SKELETAL STABILISATION BY IMN, AS AGAINST EXTERNAL FIXATION, IS THE KEY STEP FOR INITIAL SUCCESSFUL SURGICAL MANAGEMENT OF MANGLED LIMB INJURY – A STUDY OF 42 CASES**  
Ashok Kumar DAS (INDIA)
- 44436 TRAUMA RELATED ACUTE RESPIRATORY DISTRESS SYNDROME PREVALENCE – A META-ANALYSIS**  
Roman PFEIFER, Nicole HEUSSEN, Emilia MICHALEWICZ, Ralf-Dieter HILGERS, Hans-Christoph PAPE (GERMANY)
- 42686 INCIDENTAL FINDINGS ON WHOLE-BODY TRAUMA COMPUTED TOMOGRAPHY: EXPERIENCE AT A MAJOR TRAUMA CENTRE**  
Matthew SEAH, Colin MURPHY, Andrew CARROTHERS (UNITED KINGDOM)
- 43350 TRAUMA TEAM – A NEW “BLENDED LEARNING” CURRICULUM FOR FINAL YEAR MEDICAL STUDENTS**  
Sebastian KUHN (GERMANY)

18:15 - 19:45

**OPENING CEREMONY**



**Thursday, 8 September**

**Michelangelo 2**

08:30 - 10:00

***Instructional Course – Hip Preservation Surgery in Young Adults***

*Moderator:*

Jacques CATON (FRANCE)

**INTRODUCTION**

Jacques CATON (FRANCE)

**HIP ARTHROSCOPY FOR FAI**

Hatem SAID (EGYPT)

**DISTAL TRANSFER OF THE GREAT TROCHANTER**

Jacques CATON (FRANCE)

**TECHNIQUE AND INDICATION FOR SHELF ARTHROPLASTY**

Etienne CAVAINAC (FRANCE)

**PERIACETABULAR OSTEOTOMIES**

Fatih KUCUKDURMAZ (TURKEY)

**CONSERVATIVE TREATMENT IN HIP OSTEONECROSIS, STEM CELLS AND FEMORAL OSTEOTOMY**

Philippe HERNIGOU (FRANCE)

**MANAGEMENT OF ACQUIRED COXA VARA AND OA HIP WITH DISTAL TRANSFER OF THE GT AND VALGUS OSTEOTOMY**

Narender MAGU (INDIA)

**CONCLUSION & DISCUSSION**

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Hip: Miscellaneous*

*Moderators:*

Paolo DALLA PRIA (ITALY), André FERREIRA (FRANCE)

**45631 TREATMENT OF AVN USING THE CHAMBER INDUCTION TECHNIQUE AND BIOTECHNOLOGIES: INDICATIONS AND CLINICAL RESULTS**

Giorgio Maria CALORI, Massimiliano COLOMBO (ITALY)

**44980 ILIZAROV HIP RECONSTRUCTION OR PELVIC SUPPORT OSTEOTOMY FOR TREATMENT OF INSTABILITY OF HIP**

M. Mofakhkharul BARI (BANGLADESH)

**42894 ACETABULAR COMPONENT ORIENTATION IN WIDMER SAFE ZONE PREVENTS EARLY POSTOPERATIVE DISLOCATIONS**

Sergejs ZADOROZNIJS, Andrejs LIOZNOVS, Konstantins KALNBERZS (LATVIA)

**44122 MID- TO LONG-TERM CLINICAL & RADIOGRAPHIC RESULTS OF PERIACETABULAR ROTATIONAL OSTEOTOMY**

Yoon Je CHO, Young Soo CHUN, Kee Hyung RHYU, Hu LIANG, Gwang Young JUNG (SOUTH KOREA)

- 45573 FEMORAL DEROTATION OSTEOTOMIES IN ADULTS FOR VERSION ABNORMALITIES**  
Robert BULY, Elaine CALDWELL-KRUMINS, Branden SOSA, Robert ROZBRUCH (UNITED STATES)
- 45344 FRETTING AND CORROSION DAMAGE IN TAPER ADAPTER SLEEVES: A RETRIEVAL STUDY**  
Daniel MACDONALD, Antonia CHEN, Gwo-Chin LEE, Gregg KLEIN, Harold CATES, Michael MONT, Clare RIMNAC, Steven KURTZ (UNITED STATES)
- 42769 INCIDENCE AND MAGNITUDE OF METAL ION LEVELS IN BLOOD WITH LARGE CERAMIC AND METAL FEMORAL HEADS: A PROSPECTIVE STUDY WITH FIVE-YEAR FOLLOW-UP**  
Morteza MEFTAH, Peter WHITE, Allina NOCON, Sandra FONG, Amar RANAWAT, Chitranjan RANAWAT (UNITED STATES)
- 42933 THE CORRELATION BETWEEN URINARY AND WHOLE BLOOD CONCENTRATIONS OF COBALT AND CHROMIUM IN PATIENTS WITH METAL-ON-METAL BEARING TOTAL HIP ARTHROPLASTY**  
Ahmed ALGHAMDI<sup>1</sup>, Pascal-André VENDITTOLI<sup>2</sup>, Martin LAVIGNE<sup>2</sup>  
<sup>1</sup>(SAUDI ARABIA), <sup>2</sup>(CANADA)
- 43586 THE EFFECT OF GENDER ON ARTICULAR SURFACE REPLACEMENT HIP RESURFACING ARTHROPLASTY**  
Viktor LINDGREN, Gabrielle DONAHUE, Vincent GALEA, Rami MADANAT, Orhun MURATOGLU, Henrik MALCHAU (UNITED STATES)
- 44190 16-YEAR OUTCOME OF A MODERN DUAL MOBILITY ACETABULAR CUP**  
Thomas NERI, Remi PHILIPPOT, Bertrand BOYER, Frederic FARIZON (FRANCE)
- 12:00 - 12:30 *Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*
- ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**  
Rodolfo CAPANNA (ITALY)
- 12:30 - 14:00 *Break*
- 14:00 - 15:30 *Symposium – Advanced Bearing in Arthroplasty*
- Moderators:*  
Roberto BINAZZI (ITALY), Philippe HERNIGOU (FRANCE)
- ADVANCED MIXED CERAMIC: A CHANGING PARADIGM IN THA**  
Robert STREICHER (GERMANY)

**THE DYSPLASTIC HIP: MANAGEMENT WITH CERAMIC ON CERAMIC BEARINGS**

Roberto BINAZZI (ITALY)

**CLINICAL ADVANTAGES OF CERAMIC ON CERAMIC BEARINGS IN THE LONG-TERM FOLLOW-UP (40 YEARS' EXPERIENCE)**

Philippe HERNIGOU (FRANCE)

**REVISION WITH CERAMIC ON CERAMIC: IMPROVING THE OUTCOME**

Giovanni PIGNATTI (ITALY)

**FRETTING CORROSION: DOES THE BEARING MATERIAL MAKE A DIFFERENCE?**

Steven KURTZ (UNITED STATES)

15:30 - 16:00 *Break*

16:00 - 17:30 **Free Papers – Revision of Hip Arthroplasty**

*Moderators:*

Francesco BOVE (ITALY), László BUCSI (HUNGARY)

**43422 LONG-TERM OUTCOME OF ACETABULAR REVISION WITH THE BURCH-SCHNEIDER CAGE AND MASSIVE ALLOGRAFTS IN SEVERE BONE DEFICIENCIES**

Alessio IUDICA (ITALY)

**45694 A 2- TO 7-YEAR FOLLOW-UP OF A MODULAR ILIAC SCREW CUP IN MAJOR ACETABULAR BONE DEFECTS**

Giovanni PIGNATTI, Matteo CADOSSO, Flavio GARCIA, Andrea SAMBRI, Isabella ANDREOLI (ITALY)

**45086 DOES THE STEMMED CUP WORK? EXPERIENCE IN 288 IMPLANTS**

Piero PICIOCCO, Francesco Saverio SANTORI, Stefano GHERA (ITALY)

**43064 ACETABULAR REVISION TOTAL HIP ARTHROPLASTY USING KERBULL TYPE ACETABULAR REINFORCEMENT DEVICES – FACTORS RELATED TO POOR OUTCOME OF THE SURGERY**

Shigeo FUKUNISHI, Shoji NISHIO, Yu TAKEDA, Shinichi YOSHIYA (JAPAN)

**44571 ACETABULAR IMPACTION BONE GRAFTING USING WHOLE FEMORAL HEAD ALLOGRAFT AND RETAINING OF THE ARTICULAR CARTILAGE: MID-TERM RESULTS**

Ahmed FADULELMOLA, Efstathios DRAMPALOS, John HODGKINSON, Mukesh HEMMADY (UNITED KINGDOM)

- 43696 FREEZE-DRIED IRRADIATED AND CHEMICALLY TREATED ALLOGRAFT IN ACETABULAR REVISION ARTHROPLASTY**  
Jacques CATON, Laurence BARNOUIN (FRANCE)
- 42844 HOW TO BE COST-EFFECTIVE IN HIP REVISION SURGERY?**  
László BUCSI (HUNGARY)
- 43332 REVISION ARTHROPLASTY OF LARGE PAPROSKY 3-B DEFECTS USING IMPACTION GRAFTING AND A METALLIC MESH**  
Alejandro GONZALEZ DELLA VALLE, Bradford WADDELL, Friedrich BOETTNER (UNITED STATES)
- 44477 OUTCOMES IN REVISION SURGERY FOR UNSTABLE TOTAL HIP ARTHROPLASTY**  
Fernando COMBA, Francisco NALLY, Martin BUTTARO, Gerardo ZANOTTI, Francisco PICCALUGA (ARGENTINA)

18:15 - 19:45

**OPENING CEREMONY**



**Thursday, 8 September**  
**Michelangelo 3**

08:30 - 10:00

*Invited Lecture & Free Papers – Total Knee Arthroplasty I*

*Moderators:*

Francesco BENAZZO (ITALY), Fabio FAVETTI (ITALY)

*Invited Speaker*

**KNEE PROSTHETIC REPLACEMENT NOWADAYS: THE UPDATED SOLUTIONS**

Francesco BENAZZO (ITALY)

- 43226 IS QUADRICEPS SPARING APPROACH BETTER THAN MEDIAL PARAPATELLAR APPROACH IN PRIMARY TOTAL KNEE ARTHROPLASTY AT SHORT TERM? A SYSTEMATIC REVIEW AND META-ANALYSIS**  
Mark BLOMFIELD<sup>1</sup>, Alcelik ILHAN<sup>1</sup>, Ben HAUGHTON<sup>1</sup>, Waheed MARIAH<sup>1</sup>, Cenk OZTURK<sup>2</sup>, David CASH<sup>1</sup>, Peter CAMPBELL<sup>1</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(TURKEY)

- 43140 DO WELL-BALANCED PRIMARY TKA PATIENTS ACHIEVE BETTER OUTCOMES WITHIN THE FIRST YEAR AFTER SURGERY?**  
Frank LAMPE, Carlos MARQUES, Franziska FIEDLER, Anusch SUFI-SIAVACH (GERMANY)
- 42556 HOW STABLE IS OUR TOTAL KNEE REPLACEMENT? – INTRAOPERATIVE NAVIGATION ASSESSMENT OF MID FLEXION INSTABILITY**  
Melvin J. George IRIMPEN, Adnan ZAHOOR, Jai Thilak KAILATHUVALAPPIL (INDIA)
- 44963 ROBOTIC ASSISTED TOTAL KNEE ARTHROPLASTY IN PATIENTS WITH SEVERE VARUS DEFORMITY**  
Sang Jin PARK (SOUTH KOREA)
- 42565 WHICH ONE IS BETTER IN TOTAL KNEE ARTHROPLASTY: INTRAMEDULLARY OR EXTRAMEDULLARY JIG FOR TIBIAL CUT?**  
Dariush GOURAN SAVADKOOHI, Babak SIAVASHI, Ehsan PENDARE, Arash AALIREZAEI (IRAN)
- 44937 EVALUATION OF EFFECTS OF THE TIMING OF TOURNIQUET RELEASE ON BLOOD LOSS IN TOTAL KNEE ARTHROPLASTY BEFORE THE WOUND CLOSURE AND AFTER THE WOUND CLOSURE AND BANDAGING – A RANDOMISED CONTROLLED TRIAL**  
Balaraju MENEGE, Krishna Kiran ECHAMPATI, Chiranjeevi TAYA, Sukeshrao SANKINEANI, Guravareddy ANNAPAREDDY VEKATA (INDIA)
- 42630 IDENTIFYING AN IDEAL TIME FRAME FOR STAGED BILATERAL TOTAL KNEE ARTHROPLASTY TO MINIMISE COMPLICATION RATES AND MAXIMISE FUNCTIONAL OUTCOME**  
Jerry Yongqiang CHEN, Jared Ze Yang YEH, Wu Chean LEE, Hwei Chi CHONG, Hee Nee PANG, Darren Keng Jin TAY, Shi-Lu CHIA, Ngai Nung LO, Seng Jin YEO (SINGAPORE)
- 45650 TOPICAL APPLICATION OF TRANEXAMIC ACID REDUCES BLOOD LOSS AND NEED FOR BLOOD TRANSFUSION IN SIMULTANEOUS BILATERAL TKA: A PROSPECTIVE, RANDOMISED, DOUBLE-BLINDED STUDY**  
Aditya K. AGGARWAL, Nagmani SINGH, Pebam SUDESH (INDIA)
- 45628 MEGAPROSTHESIS IN POST-TRAUMATIC AND PERIPROSTHETIC SEPTIC LARGE BONE DEFECTS: ISSUES TO BE CONSIDERED**  
Giorgio Maria CALORI, Massimiliano COLOMBO (ITALY)

10:00 - 10:30 *Break*

10:30 - 12:00 ***Symposium – How to Deal With Knee Problems***

*Moderator:*  
Francesco BENZAZZO (ITALY)

## **INTRODUCTION**

Francesco BENAZZO (ITALY)

## **THE PAINFUL KNEE**

Miroslav HASPL (CROATIA)

## **THE STIFF KNEE**

Ashok RAJAGOPAL (INDIA)

## **EXTENSOR MECHANISM FAILURE**

Chitranjan RANAWAT (UNITED STATES)

## **PERIPROSTHETIC FRACTURE**

Gabriele PANEGROSSI (ITALY)

## **CONTROVERSIAL CASE I**

Dariush GOURAN SAVADKOOHI (IRAN)

## **CONTROVERSIAL CASE II**

Alfredo SCHIAVONE PANNI (ITALY)

12:00 - 12:30

*Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*

## **ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**

Rodolfo CAPANNA (ITALY)

12:30 - 14:00

*Break*

14:00 - 15:30

*Free Papers – Total Knee Arthroplasty II*

*Moderators:*

Paolo ADRAVANTI (ITALY), Federico DETTONI (ITALY)

**43038 POSTEROLATERAL OVERHANG OF THE FEMORAL COMPONENT IN TOTAL KNEE ARTHROPLASTY: A COMPARISON BETWEEN SYMMETRIC AND ASYMMETRIC DESIGN**

Masashi HIRAKAWA, Masashi MIYAZAKI, Shinichi IKEDA, Yoshiki MATSUMOTO, Makoto KONDO, Hiroshi TSUMURA (JAPAN)

**44002 PRESSURE SENSOR TECHNOLOGY VARIABILITY IN TOTAL KNEE ARTHROPLASTY**

Alejandro GONZALEZ DELLA VALLE, Vincenzo FRANCESCHINI, Scott NODZO (UNITED STATES)

- 45583 THE USE OF INTRAOPERATIVE SENSING TECHNOLOGY WITH ALGORITHMIC PIE-CRUSTING OF THE MCL DURING TOTAL KNEE ARTHROPLASTY OF VARUS KNEES REDUCES THE NEED FOR A CONSTRAINED INSERT**  
Alejandro GONZALEZ DELLA VALLE, Spencer AMUNDSEN, Yuo-Yu LEE (UNITED STATES)
- 43209 VERIFICATION OF PREDICTED CORONAL AND SAGITTAL PLANE ALIGNMENT OF TOTAL KNEE ARTHROPLASTY BETWEEN PATIENT SPECIFIC INSTRUMENTATION AND IMAGE FREE COMPUTER NAVIGATION**  
Srinivas THATI, Gurvinder KAINTH, Muthu GANAPATHI (UNITED KINGDOM)
- 43248 EFFECT OF PATELLAR RESURFACING ON CHANGE IN INSALL SALVATI RATIO FOLLOWING TOTAL KNEE REPLACEMENT**  
Shivan MARYA, Parag SANCHETI, Ashok SHYAM, Rajeev JOSHI (INDIA)
- 42803 CLINICAL AND RADIOGRAPHIC RESULTS OF ATTUNE AND PFC SIGMA KNEE DESIGNS – 2-YEAR FOLLOW-UP: A PROSPECTIVE MATCHED PAIR ANALYSIS**  
Chitranjan RANAWAT, Morteza MEFTAH, Peter WHITE, Amar RANAWAT, Sarah WEST (UNITED STATES)
- 44905 ARTICULAR SURFACE MOUNTED NAVIGATION COMPARED TO NON-NAVIGATED TOTAL KNEE REPLACEMENT IMPROVES COMPONENT ALIGNMENT RELIABILITY**  
Nicholas CLEMENT, Deborah MACDONALD, Colin HOWIE (UNITED KINGDOM)
- 42537 WHAT CHARACTERISTICS ARE ASSOCIATED WITH PATELLOFEMORAL INSTABILITY AFTER KINEMATICALLY ALIGNED TOTAL KNEE ARTHROPLASTY?**  
Alexander NEDOPIL, Stephen HOWELL, Maury HULL (UNITED STATES)
- 43786 PATELLA BAJA AND PSEUDO-PATELLA BAJA FOLLOWING TOTAL KNEE ARTHROPLASTY**  
Hiroshi FUJII (JAPAN)

15:30 - 16:00 *Break*

16:00 - 17:30 **Consensus Symposium – Severe Knee Deformity in Total Knee Arthroplasty**

*Moderator:*  
Francesco FALEZ (ITALY)

**VARUS**

Maximilian RUDERT (GERMANY)

**VALGUS**

Mario MANILI (ITALY)

**RECURVATUM**

Claudio CASTELLI (ITALY)

**POST TRAUMATIC**

Fabio CONTEDEUCA (ITALY)

**EXTRA-ARTICULAR DEFORMITY**

Mahajan RAMNEEK (INDIA)

**RIGIDITY**

Roberto ROSSI (ITALY)

**COMBINED DEFORMITY**

Nilen SHAH (INDIA)



**Thursday, 8 September**

**Caravaggio 1-2**

08:30 - 10:00

*Free Papers – Spine Degeneration & Disc*

*Moderators:*

Evalina BURGER (UNITED STATES), Pier Paolo MURA (ITALY)

**44431 CORRELATION OF CLINICAL AND MRI FINDINGS WITH INTRAOPERATIVE FINDINGS IN LUMBAR PROLAPSE INTERVERTEBRAL DISC**

Jay PATEL, Ashutosh SINGH, Samarkumar BISWAS (INDIA)

**43721 CLINICO-RADIOLOGICAL FACTORS ASSOCIATED WITH THE DEVELOPMENT OF NEUROLOGICAL DEFICIT IN PATIENTS WITH LUMBAR DISC PROLAPSE AND THEIR ROLES IN NEUROLOGICAL RECOVERY**

Vibhu Krishnan VISWANATHAN, Ajoy Prasad SHETTY, Shanmuganathan RAJASEKARAN, Rishi Mugesh KANNA (INDIA)

**44960 ASSESSMENT OF POSTOPERATIVE EPIDURAL HAEMATOMA AFTER LUMBAR MICROENDOSCOPIC SURGERY**

Takuya MISHIRO, Hiroaki MANABE, Tetsuya HIRANO (JAPAN)

- 44681 PATIENT SATISFACTION AFTER LUMBAR MICRODECOMPRESSION UNDER GENERAL VS. PROGRESSIVE LOCAL ANAESTHESIA**  
Miguel Rafael RAMOS, Mario VER (PHILIPPINES)
- 42676 USING TRANEXAMIC ACID SOAKED ABSORBABLE GELATIN SPONGE FOLLOWING COMPLEX POSTERIOR LUMBAR SPINE SURGERY: A RANDOMISED CONTROLLED TRIAL**  
Jinqian LIANG, Jianxiong SHEN, Hongzhe LIU (CHINA)
- 43858 CLINICAL RELEVANCE OF A NEW CLASSIFICATION FOR DEGENERATIVE SPONDYLOLISTHESIS OF THE LUMBAR SPINE**  
Soufiane GHAILANE<sup>1</sup>, Vincent CHALLIER<sup>1</sup>, Houssam BOULOUSSA<sup>1</sup>, Claudio VERGARI<sup>2</sup>, Go YOSHIDA<sup>1</sup>, Jean-Marc VITAL<sup>1</sup>, Olivier GILLE<sup>1</sup>  
<sup>1</sup>(FRANCE), <sup>2</sup>(UNITED KINGDOM)
- 44350 CLINICAL AND RADIOGRAPHIC OUTCOMES OF STAND-ALONE ANTERIOR LUMBAR INTERBODY FUSION VERSUS TRANSFORAMINAL LUMBAR INTERBODY FUSIONS AND 360-DEGREE FUSIONS**  
Evalina BURGER, Anthony BOZZIO, Christopher CAIN, Vikas PATEL, Christopher KLECK (UNITED STATES)
- 44041 ANATOMICAL EVALUATION OF LUMBAR VESSELS WITH MAGNETIC RESONANCE IMAGING**  
Masato KIYOHARA, Takeshi ARIZONO, Takeshi NAKAGAWA, Yuki FUJII, Akihiko INOKUCHI, Takahiro HAMADA, Kenjiro NISHIDA, Ryuta IMAMURA (JAPAN)
- 42579 DO MODIC CHANGES PROGRESS WITH AGING?**  
Kiyoshi TARUKADO, Teruaki ONO, Osamu TONO, Toshio DOI (JAPAN)

10:00 - 10:30 *Break*

10:30 - 12:00 *Symposium – Avoiding Complications in Spinal Surgery*

*Moderators:*

Keith DK LUK (HONG KONG), Shanmuganathan RAJASEKARAN (INDIA)

**MAKING ADULT DEFORMITY SURGERY SAFE**

Oheneba BOACHIE-ADJEI (GHANA)

**FAIL SAFE SURGERY FOR OSTEOPOROTIC FRACTURES**

Cody BÜNGER (DENMARK)

**LUMBAR DEGENERATIVE SURGERY**

Evalina BURGER (UNITED STATES)

**PAEDIATRIC SPINE DEFORMITY SURGERY**

John DORMANS (UNITED STATES)

## STATE OF ART IN SPINE IMAGING

Alberto ZERBI (ITALY)

12:00 - 12:30

*Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*

## ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS

Rodolfo CAPANNA (ITALY)

12:30 - 14:00

*Industry-Sponsored Workshop*

14:00 - 15:30

## Free Papers – Spine Deformity & Tumour

*Moderators:*

Oheneba BOACHIE-ADJEI (GHANA), Bernardo MISAGGI (ITALY)

**43438 CLASSIFICATION AND DESCRIPTIVE ANALYSIS OF COMPLEX SPINE DEFORMITY EXCEEDING 100 DEGREES: THE OMEGA/GAMMA DEFORMITY**

Oheneba BOACHIE-ADJEI<sup>1</sup>, Jenny AYAMGA<sup>1</sup>, Feran PELLISE<sup>2</sup>, Cristina SACRAMENTO<sup>2</sup>, Irene WULFF<sup>1</sup>, Harry AKOTO<sup>1</sup>, Focos Research Group<sup>1</sup>  
<sup>1</sup>(GHANA), <sup>2</sup>(SPAIN)

**43683 SURGICAL TREATMENT OF SEVERE DEFORMITIES OF CERVICO-THORACIC JUNCTION**

Marchel VETRILE, Alexander KULESHOV, Igor LISYANSKY (RUSSIA)

**45112 PONTE OSTEOTOMIES AROUND THE APICAL VERTEBRA IMPROVE THE CORRECTION OF THORACIC ADOLESCENT IDIOPATHIC SCOLIOSIS**

Mohammadreza CHEHRASSAN, Cesare FALDINI, Angelo TOSCANO, Raffaele BORGHI, Fabrizio PERNA, Alberto DI MARTINO, Francesco TRAINA (ITALY)

**44596 DO 3D-PRINTED SPINE MODELS IMPROVE THE ACCURACY OF PEDICLE SCREW PLACEMENT IN SCOLIOSIS?**

Nanfeng XU<sup>1</sup>, Miao YU<sup>1</sup>, David ROYE<sup>2</sup>, Xiaoguang LIU<sup>1</sup>, Zhongjun LIU<sup>1</sup>  
<sup>1</sup>(CHINA), <sup>2</sup>(UNITED STATES)

**43596 DEVELOPMENT OF A RISK SEVERITY SCORING SYSTEM FOR SURGICAL SITE INFECTION IN ADOLESCENT IDIOPATHIC SCOLIOSIS: WHAT ARE WE MISSING?**

Joshua HYMAN, Hiroko MATSUMOTO, Jeanne FRANZONE, W.G. MACKENZIE, Michael TROY, Kody BARRETT, Brendan STRIANO, Michael GLOTZBECKER, John FLYNN, David SKAGGS, David ROYE, Michael VITALE (UNITED STATES)

- 44129 SURGICAL STRATEGY FOR PRIMARY CERVICAL SPINAL TUMOURS**  
Dadi JIN, Haomiao LI, Ming LU (CHINA)
- 43720 COMBINATION OF NAVIGATIONAL RADIOFREQUENCY ABLATION DEVICE, ULTRA-HIGH VISCOSITY CEMENT VERTEBRAL AUGMENTATION AND STEREOTACTIC RADIOTHERAPY FOR THE TREATMENT OF SPINE METASTASIS**  
Jean-Baptiste ZERLAUTH, Luis SCHIAPPACASSE, Jean BOURHIS, Reto MEULI (SWITZERLAND)
- 43675 SPONDYLECTOMY AND SPONDYLODESIS IN PATIENTS WITH SPINE TUMOURS**  
Andrei BABKIN, Mikalai CHUMAK, Zinaida YAHORAVA (BELARUS)
- 43676 THORACIC SPINE ATYPICAL OSTEOSARCOMA TREATMENT**  
Zinaida YAHORAVA, Andrei BABKIN, Ludmila PASHKEVICH, Mikalai CHUMAK (BELARUS)
- 43591 LENKE, SUK, RIGO CLASSIFICATION SYSTEMS: HOW DO THEY COMPARE?**  
Joshua HYMAN, Amelia LINDGREN, Melvin MAKHNI, Jamal SHILLINGFORD, Benjamin ROYE, David ROYE, Michael VITALE (UNITED STATES)

15:30 - 16:00 *Break*

16:00 - 17:30 ***AOSpine Symposium – Current Controversies***

*Moderators:*

Marinus DE KLEUVER (NETHERLANDS), Claudio LAMARTINA (ITALY)

**RECURRENT DISC – TO FUSE OR NOT?**

Keith DK LUK (HONG KONG)

**VALUE OF IMAGING IN POST-OP SPINE**

Alberto ZERBI (ITALY)

**CONTROVERSIES IN TL BURST FRACTURES**

Shanmuganathan RAJASEKARAN (INDIA)

**SPONDYLOLISTHESIS SURGERY**

Claudio LAMARTINA (ITALY)

**TUMOUR SURGERY – CONTROVERSIES**

Stefano BORIANI (ITALY)



## Thursday, 8 September

### Caravaggio 3-4

08:30 - 10:00

#### *Instructional Course – Elbow Instability*

*Moderators:*

Pierre MANSAT (FRANCE), Marius SCARLAT (FRANCE)

#### **UNDERSTANDING ELBOW STABILITY**

Marius SCARLAT (FRANCE)

#### **ACUTE POSTEROLATERAL COMPLEX ELBOW INSTABILITY: THE TERRIBLE TRIAD**

Ahmet DEMIRTAS (TURKEY)

#### **ACUTE AND CHRONIC MANAGEMENT OF MONTEGGIA FRACTURE AND ESSEX-LOPRESTI LESIONS**

Jeno KISS (HUNGARY)

#### **CHRONIC POSTEROLATERAL AND MEDIAL INSTABILITY**

Przemislaw LUBIATOWSKI (POLAND)

#### **DISTAL HUMERUS NON-UNION: RECONSTRUCTION AND REPLACEMENT**

Pierre MANSAT (FRANCE)

#### **DISCUSSION**

10:00 - 10:30

*Break*

10:30 - 12:00

#### *Free Papers – Shoulder Arthroplasty & Arthroscopy*

*Moderators:*

Mario BORRONI (ITALY), Andrea FERRETTI (ITALY)

#### **43406 OUTCOMES OF REVERSE SHOULDER ARTHROPLASTY IN CORRELATION WITH CUFF TEAR ARTHROPATHY STAGES**

Vincenzo MOREA<sup>1</sup>, Francesco MAGLI<sup>1</sup>, Alberto CASTAGNA<sup>1</sup>, Mario BORRONI<sup>1</sup>, Celestino GUERRA GARCIA<sup>2</sup>, Flavio TERRAGNOLI<sup>1</sup>, Giudo ZATTONI<sup>1</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(SPAIN)

#### **43766 REVERSE SHOULDER REPLACEMENT WITH A LATERALISED CENTRE OF ROTATION: 2-5 YEAR RESULTS FROM AN INDEPENDENT CENTRE**

Gautam TALAWADEKAR, Kelly WAGNER, Vipul PATEL (UNITED KINGDOM)

- 43338 REVERSE TOTAL SHOULDER ARTHROPLASTY WITHOUT BONE GRAFTING FOR SEVERE GLENOID BONE LOSS IN PATIENTS WITH OSTEOARTHRITIS**  
Filippo FAMILIARI<sup>1</sup>, Gazi HURI<sup>2</sup>, Steve PETERSEN<sup>3</sup>, Uma SRIKUMARAN<sup>3</sup>, Edward MCFARLAND<sup>3</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(TURKEY), <sup>3</sup>(UNITED STATES)
- 43222 CLINICAL AND RADIOLOGIC OUTCOMES OF THE 2ND GENERATION TRABECULAR METAL™ GLENOID FOR TOTAL SHOULDER REPLACEMENTS AFTER TWO TO SIX YEARS' FOLLOW-UP**  
Juan Paulo PANTI, Simon TAN, Warren KUO, Sebastian FUNG, Kim WALKER, Jed DUFF (AUSTRALIA)
- 42491 OUTCOME OF REVISION SHOULDER ARTHROPLASTY AFTER RESURFACING HEMIARTHROPLASTY IN PATIENTS WITH GLENOHUMERAL OSTEOARTHRITIS**  
Ali AL-HAMDANI, Jeppe RASMUSSEN, Bo OLSEN, Stig BRORSON (DENMARK)
- 42633 MID-TERM RATES OF RADIOLUCENCY AFTER PRIMARY TOTAL SHOULDER ARTHROPLASTY USING A CEMENTLESS METAL-BACK PEGGED GLENOID COMPONENT**  
Khalid AL-HOURANI, James SMITH, Mark CROWTHER, Phil MCCANN, Partha SARANGI (UNITED KINGDOM)
- 44945 ARTHROSCOPIC REPAIR VERSUS CONSERVATIVE TREATMENT IN ACUTE SHOULDER DISLOCATION: TEN YEARS OF EXPERIENCE**  
Andrea FERRETTI, Angelo DE CARLI, Riccardo Maria LANZETTI, Alessandro CIOMPI, Antonio VADALÀ (ITALY)
- 44414 RESULTS OF TYPE II SLAP REPAIR IN OVERHEAD ATHLETES**  
Ahmed KHATER, Mohamed SOBHY (EGYPT)
- 44966 RANDOMISED TRIAL COMPARING ROLE OF INJECTION CORTICOSTEROID AND INJECTION PRP IN SUBACROMIAL IMPINGEMENT SYNDROME – MRI BASED STUDY**  
Amrut Diwakar RAJE (INDIA)
- 12:00 - 12:30 **Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)**
- ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**  
Rodolfo CAPANNA (ITALY)
- 12:30 - 14:00 **Industry-Sponsored Symposium**

14:00 - 15:30

## *Symposium – Proximal Humerus Fractures: A Problem Not Solved*

*Moderators:*

Jose Sergio FRANCO (BRAZIL), Jacinto MONTEIRO (PORTUGAL)

### **HOW USEFUL ARE THE CLASSIFICATIONS?**

Marco SARMENTO (PORTUGAL)

### **WHY DO WE OPERATE THESE PATIENTS?**

Jacinto MONTEIRO (PORTUGAL)

### **ORIF (NAILS AND PLATES)**

Hatem SAID (EGYPT)

### **HOW I USE REVERSE PROSTHESIS**

Laurent NOVÉ JOSSERAND (FRANCE)

### **HOW TO TREAT THE SEQUELAE**

Mark TAUBER (GERMANY)

### **DISCUSSION**

15:30 - 16:00

*Break*

16:00 - 17:30

## *Free Papers – Shoulder & Elbow*

*Moderators:*

Claudio ASCANI (ITALY), Jacinto MONTEIRO (PORTUGAL)

### **44417 PROXIMAL RADIAL NECK RESORPTION AROUND PRESS-FIT RADIAL HEAD PROSTHESES IN TERRIBLE TRIAD INJURIES**

Giuseppe GIANNICOLA, Marco SCACCHI, Gianluca BULLITTA, David POLIMANTI (ITALY)

### **45663 ANALYSING PROSTHETIC RADIAL HEAD 3D TOPOGRAPHY**

Srinath KAMINENI, Adam TALAL (UNITED STATES)

### **43845 RADIAL HEAD FRACTURE AND ITS INVOLVEMENT WITH THE PROXIMAL RADIO-ULNAR JOINT: DEVELOPMENT OF A METHOD OF EVALUATION WITH CT SCAN**

Anne COUTURE, Dominique ROULEAU, Julien CHAPLEAU, Jérémie MÉNARD, Jonah HÉBERT-DAVIES (CANADA)

### **45520 RECONSTRUCTION OF COMMINUTED RADIAL HEAD FRACTURES USING HEADLESS CANNULATED SCREWS – PROSPECTIVE CASE SERIES AND REVIEW OF LITERATURE**

John EDWIN, Muhammad BASHIR, Anand ARYA (UNITED KINGDOM)

- 44461 CORONAL STABILISATION AND BRACING OF DISPLACED CAPITELLUM FRACTURE: A SIMPLE 'J'-SHAPED KIRCHNER WIRE STAPLING TECHNIQUE**  
Sanjay SONANIS, Sanjay KUMAR (UNITED KINGDOM)
- 43562 MUSCLE REGENERATION FOLLOWING ROTATOR CUFF REPAIR**  
Mustafa RASHID, Butt USMAN (UNITED KINGDOM)
- 44386 EVALUATION OF AXILLARY NERVE INJURY AND FUNCTIONAL OUTCOME OF PROXIMAL HUMERAL FRACTURES AFTER FIXATION WITH DELTOID-SPLITTING APPROACH**  
Shah WALIULLAH, Kumar SHANTANU, Deepak KUMAR, R.N. SRIVASTAVA, Vineet SHARMA (INDIA)
- 43023 DIAGNOSIS OF ROTATOR CUFF TEAR: CORRELATION OF CLINICAL TESTS AND MRI TO ARTHROSCOPIC FINDINGS**  
Haytham ABDEL-MONEIM (EGYPT)
- 45173 MODIFIED SCAPULAR MANIPULATION TECHNIQUE FOR REDUCING ANTERIOR, POSTERIOR, AND INFERIOR SHOULDER DISLOCATIONS – CLINICAL EVALUATION AND META-ANALYSIS**  
Mirjam LANGE, Wolfgang BÖCKER, Markus REGAUER (GERMANY)
- 44840 BENIGN LYTIC LESIONS OF CLAVICLE: A DIAGNOSTIC DILEMMA**  
Jatin PRAKASH (INDIA)



## Thursday, 8 September

### Caravaggio 5-6

08:30 - 10:00

*Invited Lectures & Free Papers – Hand & Wrist*

*Moderators:*

Ferdinando DA RIN DE LORENZO (ITALY), Anil DHAL (INDIA)

***Invited Speaker***

**HAND SURGERY IN ITALY TODAY: CHANGING SEASONS AND SOLID ROOTS**

Massimo CERUSO (ITALY)

***Invited Speaker***

**MICROSURGERY TODAY IN ITALY**

Bruno BATTISTON (ITALY)

**44536**

**BEST ANAESTHETIC TECHNIQUES FOR SHORT HAND PROCEDURES**

Amr MOHAMED ALY, Ahmed IBRAHIM ADDOSOOKI, Mohamed AMER MOHAMED (EGYPT)

- 43478 TENDON GRAFTING AS SURGICAL TREATMENT FOR RUPTURE OF THE FLEXOR PROFUNDUS TENDON IN NO MAN'S LAND**  
Georgios PAPAPOPOULOS GR., Ioannis KANAKAKIS, Grigorios IOANNIDES M., Angeliki PAPAPOPOULOU G. (GREECE)
- 43410 RESULTS OF DUBERT'S OPERATION FOR SEQUELLA OF FRACTURE-DISLOCATIONS OF THE FIFTH CARPO-METACARPAL RAY: A REPORT OF 6 CASES**  
Nadhir MERAGHNI, Guillaume BACLE, Emilie MARTEAU, Jacky LAULAN (FRANCE)
- 45322 OUTCOME OF PROXIMAL POLE SCAPHOID NON-UNION TREATED WITH ANTEGRADE HEADLESS COMPRESSION SCREW AND BONE GRAFT**  
John EDWIN, Saurabh AGGARWAL, Ahmad BILAL, Akilapa OLUWASEGUN, Adel TAVAKKOLIZADEH, Jonathan COMPSON (UNITED KINGDOM)
- 42795 WRIST ARTHROSCOPY AND MRI FOR EVALUATION OF SCAPHOLUNATE AND LUNOTRIQUETRAL LIGAMENTS TEAR IN KIENBÖCK'S DISEASE**  
Haytham ABDEL-MONEIM, Ahmed SAYED (EGYPT)
- 44789 TREATMENT OF TRAPEZIOMETACARPAL OSTEOARTHRITIS BY ARTHROPLASTY WITH LAST GENERATION PYROCARBON INTERPOSITION IMPLANT**  
Roberto ESPOSITO, Sergio RUSSO, Massimo PACELLI, Alessio BERNASCONI, Daniela LAMBERTI, Giuseppe MOSILLO, Francesco SADILE (ITALY)
- 43013 EARLY TENDON TRANSFER FOR THUMB OPPOSITION IN MEDIAN NERVE PALSY**  
Anil DHAL, Ankit THORA (INDIA)

10:00 - 10:30 *Break*

10:30 - 12:00 **Symposium – Evidence Based Guidelines & Recent Innovative Advances for the Treatment of Common Hand Affections**

*Moderators:*

Bruno BATTISTON (ITALY), Frederic SCHUIND (BELGIUM)

### **Distal Radius Fractures**

#### **EVIDENCE BASED TREATMENT**

Charles PAILTHORPE (UNITED KINGDOM)

#### **COMPLICATIONS**

Amr ALY (EGYPT)

#### **MINIMALLY INVASIVE TREATMENT**

Margaret FOK (HONG KONG)

**DISCUSSION**

**Adult Trigger Finger**

**PATHOPHYSIOLOGY, DIFFERENTIAL DIAGNOSIS AND EVIDENCE BASED TREATMENT**

Rouin AMIRFEYZ (UNITED KINGDOM)

**MINIMALLY INVASIVE TREATMENT**

Fabian MOUNGONDO, Frederic SCHUIND (BELGIUM)

**Upper Extremity Nerve Problems & Dupuytren**

**PATHOPHYSIOLOGY AND EVIDENCE BASED TREATMENT OF COMMON UPPER EXTREMITY NERVE COMPRESSIONS**

Josephine Wing Yuk IP (HONG KONG)

**RADIAL NERVE INJURIES**

Anil DHAL (INDIA)

**DUPUYTREN CONTRACTURE – UPDATE**

Marko BUMBASIREVIC (SERBIA)

**DISCUSSION**

12:00 - 12:30

*Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*

**ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**

Rodolfo CAPANNA (ITALY)

12:30 - 14:00

*Break*

14:00 - 15:30

**Symposium – Microsurgical Vascularised Bone Grafts for Limb Reconstruction**

*Moderator:*

Marko BUMBASIREVIC (SERBIA)

**VASCULARISED BONE GRAFTS AND THEIR APPLICATION IN LIMB RECONSTRUCTION**

Marko BUMBASIREVIC (SERBIA)

**USE OF FREE VASCULARISED BONE GRAFTS IN THE TREATMENT OF BONE TUMOURS**

Marco INNOCENTI (ITALY)

**MICROSURGICAL VASCULARISED BONE GRAFTS FOR AVASCULAR NECROSIS OF THE FEMORAL HEAD**

Konstantinos MALIZOS (GREECE)

**MANAGEMENT OF LONG SEGMENT BONE DEFECTS BY MODIFIED MICROVASCULAR CAMPANACCI TECHNIQUE**

Shanmuganathan RAJASEKARAN (INDIA)

**PLACE OF FREE VASCULARISED BONE GRAFTS IN LOWER LIMB SALVAGE AND ALTERNATIVES**

Frederic SCHUIND (BELGIUM)

**VASCULARISED BONE GRAFTS FOR CONGENITAL PSEUDOARTHROSIS OF THE TIBIA IN CHILDREN**

Satoshi TOH (JAPAN)

**DISCUSSION**

15:30 - 16:00 *Break*

16:00 - 17:30

***SOFCOT (Société Française de Chirurgie Orthopédique et Traumatologique) Symposium – Rotator Cuff Repair: Clinical & Morphological Results at 10 & 20 Years' Follow-up (1,351 cases)***

*Moderator:*

Pierre MANSAT (FRANCE)

**INTRODUCTION**

Philippe COLLIN (FRANCE)

**METHODOLOGY**

Lucas NIGLIS (FRANCE)

**ISOLATED SUPRA TEAR AT 10 YEARS' FOLLOW-UP**

Pierre MANSAT (FRANCE)

**ISOLATED SUBSCAPULARIS TEAR**

Benoit VILLAIN (FRANCE)

**ANTERO SUPERIOR TEAR AT 10 YEARS' FOLLOW-UP**

Laurent NOVÉ JOSSERAND (FRANCE)

**POSTERO SUPERIOR TEAR AT 10 YEARS' FOLLOW-UP**

Fanny ELIA (FRANCE)

**COMPARISON BETWEEN OPEN AND ARTHROSCOPIC REPAIR**

Paul WALBRON (FRANCE)

**SIGNIFICANCE OF ASSOCIATED PROCEDURES (BICEPS AND AC JOINT)**

Olivier ROSELLO (FRANCE)

**COMPARISON BETWEEN GROUPS**

Charles AGOUT (FRANCE)

**ISOLATED SUPRA SPINATUS TEAR AT 20-YEAR FOLLOW-UP**

Anthony HERVÉ (FRANCE)

**MASSIVE TEAR AT 20-YEAR FOLLOW-UP**

Michael BETZ (SWITZERLAND)

**CONCLUSION**



**Thursday, 8 September**

**Caravaggio 7-8**

08:30 - 10:00

***Young Surgeons Committee Symposium – Direct Anterior Approach for Total Hip Arthroplasty***

*Moderators:*

Fatih KUCUKDURMAZ (TURKEY), Mohamed SUKEIK (UNITED KINGDOM)

**ADVANTAGES & DISADVANTAGES**

Mohamed SUKEIK (UNITED KINGDOM)

**INDICATIONS**

Ali ENAYATOLLAHI (IRAN)

**TECHNIQUE**

Fatih KUCUKDURMAZ (TURKEY)

**COMPLICATIONS**

Kerem BASARIR (TURKEY)

**REVISION VIA THE ANTERIOR APPROACH**

Cyril MAUFFREY (UNITED STATES)

**DISCUSSION**

10:00 - 10:30

***Break***

10:30 - 12:00

**Symposium – Wireless Video Arthroscopy & What’s New in Sports Medicine: What’s Hot & What’s Not!**

*Moderators:*

Stephen ABELOW (UNITED STATES), Vikas KHANDUJA (UNITED KINGDOM)

**WIRELESS VIDEO ARTHROSCOPY – HANDS-ON LIVE VIDEO DEMONSTRATION AND TRIAL OF WAD (WIRELESS ARTHROSCOPY DEVICE)**

**ACL**

Rene VERDONK (BELGIUM)

**MENISCUS**

William G. RODKEY (UNITED STATES)

**CARTILAGE**

Pedro GUILLEN (SPAIN)

**PRP/ORTHOBIOLGICS**

Stephen ABELOW (UNITED STATES)

**XENOGRAFTS**

Kevin STONE (UNITED STATES)

**MENISCUS OUTCOMES/PATIENT OUTCOMES SCORECARD**

Karen BRIGGS (UNITED STATES)

12:00 - 12:30

**Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)**

**ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**

Rodolfo CAPANNA (ITALY)

12:30 - 14:00

**Industry-Sponsored Symposium**

14:00 - 15:30

**Invited Lecture & Free Papers – Sports Medicine of the Knee**

*Moderators:*

Andrea FERRETTI (ITALY), Mohamed SOBHY (EGYPT)

**Invited Speaker**

**PAST, PRESENT AND FUTURE OF SPORTS TRAUMATOLOGY IN ITALY**

Andrea FERRETTI (ITALY)

- 44694 THE EFFECT OF THE POSITIONS OF THE FEMORAL TUNNEL ON THE LAXITY AND CLINICAL OUTCOMES OF THE OUTSIDE-IN SINGLE BUNDLE ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION**  
Seung-Suk SEO, Ok-Gul KIM, Youn-Gu KIM (SOUTH KOREA)
- 43074 TUNNEL WIDENING AFTER ACL RECONSTRUCTION: A MRI STUDY OF BTB RIGIDFIX VERSUS BTB ENDOBUTTON**  
Jayadev CHANDRASEKHARAN, Senthil SAMBANDAM, Ganeshkumar ROHINIKUMAR (INDIA)
- 43744 ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN PATIENTS 40 YEARS OR OLDER: SURVIVORSHIP AND PATIENT-CENTERED OUTCOMES AT MINIMUM 20-YEAR FOLLOW-UP**  
Karen BRIGGS, J. Richard STEADMAN, Lauren MATHENY (UNITED STATES)
- 44777 COMBINED ANTERIOR CRUCIATE LIGAMENT REVISION SURGERY WITH EXTRA-ARTICULAR LATERAL TENODESIS – PRELIMINARY RESULTS**  
Pedro Manuel SERRANO, Claudia RODRIGUES, Marta SANTOS SILVA, Pedro BARREIRA, Pedro NEVES, João DORES, Marta MASSADA (PORTUGAL)
- 44617 RISK FACTORS OF FALSE-NEGATIVE MAGNETIC RESONANCE IMAGING DIAGNOSIS FOR MENISCAL TEAR ASSOCIATED WITH ANTERIOR CRUCIATE LIGAMENT TEAR**  
Ji Hyun AHN, Moo June IM, Jai Hyung PARK (SOUTH KOREA)
- 43225 RESULTS OF ARTHROSCOPIC ASSISTED REPAIR FOR ACUTE MENISCAL TEARS**  
Manish DIVEKAR, Garima IRPATI (UNITED KINGDOM)
- 43745 MENISCUS SUTURE REPAIR VS. MENISCECTOMY AT MINIMUM 5 YEARS' FOLLOW-UP**  
Karen BRIGGS, Lauren MATHENY, William RODKEY, Richard STEADMAN (UNITED STATES)
- 42991 SEGMENTAL MEDIAL MENISCUS GRAFTING RESTORES NATURAL TIBIOFEMORAL CONTACT PRESSURES**  
David CABORN, John NYLAND, Alaa KALLOUB, Eric STRAUSS, Katrina KUBAN (UNITED STATES)

15:30 - 16:00 *Break*

16:00 - 17:30 *Free Papers – Sports Medicine: Miscellaneous*

*Moderators:*

Stephen ABELOW (UNITED STATES), Giuliano Giorgio CERULLI (ITALY)

- 45361 CLASSIFICATION OF THE ACETABULAR-LABRAL-PINCER COMPLEX: AN ARTHROSCOPIC AND RADIOLOGICAL STUDY INTO VARIANCE OF THE ACETABULAR LABRUM IN RELATION TO PINCER LESIONS**  
Debbie SHAW, Gareth STABLES, Aslam MOHAMMED (UNITED KINGDOM)
- 45210 ARTHROSCOPIC ACETABULOPLASTY WITHOUT LABRAL DETACHMENT FOR THE TREATMENT OF PINCER-TYPE FEMOROACETABULAR IMPINGEMENT**  
Fernando COMBA, Pablo SLULLITEL, Pedro BRONENBERG, Martin BUTTARO, Gerardo ZANOTTI, Francisco PICCALUGA (ARGENTINA)
- 42906 ARTHROSCOPIC TREATMENT OF ACETABULAR CARTILAGE LESIONS IN CAM-TYPE HIP IMPINGEMENT WITH MEMBRANE INDUCED CHONDROGENESIS VERSUS MICROFRACTURING**  
Jan SOMERS, Sofie GOEMINNE (BELGIUM)
- 44823 RESULTS OF ARTHROSCOPIC TREATMENT FOR POSTERIOR ANKLE IMPINGEMENT**  
Pedro Manuel SERRANO, Helder FONTE, Luis COUTINHO, Luis BARROS, João ESTEVES, Marta SANTOS SILVA, Marta MASSADA (PORTUGAL)
- 44325 A NEW TECHNIQUE OF ARTHROSCOPIC REMOVAL OF DORSAL WRIST GANGLION**  
Ajay GUPTA, Awkash KUMAR (INDIA)
- 45251 INJURIES IN ROLLER HOCKEY**  
Max Daniel KAUTHER, Lars BURGSMUELLER, Christina POLAN, Alexander WEGNER, Marcel DUDDA, Marcus JÄGER, Manuel BURGGRAF (GERMANY)
- 44354 ORTHOPAEDIC INJURIES IN MARTIAL ARTS – AN EPIDEMIOLOGICAL PERSPECTIVE**  
Nasri ZREIK, Apostolos PRODRONIDIS, Charalambos CHARALAMBOUS, Maria Paola DEY (UNITED KINGDOM)
- 44090 NEEDLE ARTHROSCOPY – PROMISING DIAGNOSTIC TOOL**  
Ivan GEROV (BULGARIA)
- 43177 THE USE OF PROPHYLACTIC ANTIBIOTICS MAY NOT BE NECESSARY IN ROUTINE KNEE ARTHROSCOPY**  
Mun Chun LAI, Chusheng SENG, William YEO, Hwee Chye Andrew TAN (SINGAPORE)
- 44732 ARTHROSCOPIC DEBRIDEMENT OF THE DEGENERATIVE KNEE – IS THERE STILL A ROLE?**  
Gin Way LAW, Junwei SOONG, Hwee Chye Andrew TAN (SINGAPORE)



## Thursday, 8 September

### Bramante 3

08:30 - 10:00

#### *Invited Lecture & Free Papers – Tumours*

*Moderators:*

Pietro RUGGIERI (ITALY), NN

***Invited Speaker***

#### **ORTHOPAEDIC ONCOLOGY IN ITALY: HISTORY AND CONTRIBUTOR**

Pietro RUGGIERI (ITALY)

#### **45056 THE DEVELOPMENT OF PATHFX AND THE INTERNATIONAL BONE METASTASIS REGISTRY**

Rikard WEDIN<sup>1</sup>, Jonathan Agner FORSBERG<sup>2</sup>, Andrea PICCIOLI<sup>3</sup>, Mark PUHAINDRAN<sup>4</sup>

<sup>1</sup>(SWEDEN), <sup>2</sup>(UNITED STATES), <sup>3</sup>(ITALY), <sup>4</sup>(SINGAPORE)

#### **43838 COMBINED USE OF FREE VASCULARISED BONE GRAFT AND EXTRACORPOREALLY IRRADIATED AUTOGRAFT FOR THE RECONSTRUCTION OF MASSIVE BONE AND JOINT DEFECTS AFTER RESECTION OF MALIGNANT TUMOUR**

Keitaro UMEHARA, Keiichi MURAMATSU (JAPAN)

#### **43269 BONE SARCOMAS IN CHILDREN: RESULTS OF TREATMENT**

Anna PETRICHENKO, Elena BUKREEVA, Alexandr OCHKURENKO, Nadezhda IVANOVA, Andrew PRITYKO (RUSSIA)

#### **44141 ELASTOFIBROMA DORSI: CLINICAL EVALUATION OF 61 CASES AND REVIEW OF THE LITERATURE**

Mehmet Ali DEVECI, Serdar OZBARLAS, Kivilcim Eren ATES, Sunkar BICER, Mustafa TEKIN, Cenk OZKAN (TURKEY)

#### **43613 ANEURYSMAL BONE CYST (ABC) OF ILIAC BONE IN THE PERIACETABULAR AREA**

Vamsi Krishna KOMMOJU, Dinesh CHOUDARY, Kumar K.L. RAVEEN, Chilakapati MADHUSUDHAN RAO (INDIA)

#### **43611 PRIMARY BONY NON-HODGKIN LYMPHOMA OF THE THORACIC SPINE: A CASE REPORT WITH A REVIEW OF THE LITERATURE**

Vamsi Krishna KOMMOJU, Dinesh CHOUDARY, Ghani IMTIAZ, Krishna RAJ SEKHAR, Chilakapati MADHUSUDHAN RAO, Suthar HARDIK (INDIA)

- 43944 RECONSTRUCTION WITH SCAPULAR HEMIARTHROPLASTY  
ENDOPROTHESIS AFTER SCAPULECTOMY FOR MALIGNANT TUMOUR:  
OPERATIVE APPROACH SELECTION AND MID-TERM OUTCOMES**  
Yong ZHOU, Li MIN, Hong DUAN, Yi LUO, Wenli ZHANG, Chongqi TU  
(CHINA)
- 43025 ROTATIONPLASTY IN TODAY'S ERA – DOES IT HAVE A ROLE?**  
Mishil PARIKH, Ajay PURI, Ashish GULIA (INDIA)
- 43778 FUNCTIONAL NEURO-VASCULARISED MUSCLE TRANSFER FOR  
ONCOLOGICAL RECONSTRUCTION OF EXTREMITY SARCOMA**  
Keiichi MURAMATSU, Koichiro IHARA, Ryuta IWANAGA, Yasuhiro  
TOMINAGA, Keitaro UMEHARA, Tetsuya SETO, Toshihiko TAGUCHI  
(JAPAN)

10:00 - 10:30 **Break**

10:30 - 12:00

**Symposium – Reconstructive Techniques in Musculoskeletal  
Oncology: an Update**

*Moderators:*

Dominique POITOUT (FRANCE), Pietro RUGGIERI (ITALY)

**PROSTHETIC RECONSTRUCTION IN MUSCULOSKELETAL ONCOLOGY**

Reinhard WINDHAGER (AUSTRIA)

**BIOLOGIC RECONSTRUCTIONS**

Miklos Attila SZENDROI (HUNGARY)

**PELVIC RECONSTRUCTION FOR BONE TUMOURS**

Sander DIJKSTRA (NETHERLANDS)

**PELVIC AND ACETABULUM RECONSTRUCTIONS WITH MASSIVE  
ALLOGRAFTS AND RECONSTRUCTIONS WITH MASSIVE TITANIUM  
PROSTHESIS ADAPTED DIRECTLY IN THE OPERATING ROOM (PELVIS AND  
UPPER PART OF THE FEMUR), AND FILLED WITH MASSIVE  
MESENCHYMATOUS CELLS**

Dominique POITOUT (FRANCE)

**PREDICTION OF PROGNOSIS IN PATIENTS WITH BONE METASTASES**

Andrea PICCIOLI (ITALY)

**TECHNIQUES OF PLASTIC SURGERY IN MUSCULOSKELETAL ONCOLOGY**

Franco BASSETTO (ITALY)

12:00 - 12:30 **Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)**

**ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**  
Rodolfo CAPANNA (ITALY)

12:30 - 14:00 **Break**

14:00 - 15:30 **Symposium – Treatment of Limb Fractures in Armed Conflicts**

*Moderators:*

Patrick HÉRARD (FRANCE), Maurice HINSENKAMP (BELGIUM), Harald VEEN (NETHERLANDS)

**MANAGEMENT OF FRACTURES RELATED TO WAR TRAUMA IN MSF SETTINGS**

Innocent NYARUHIRIRA (RWANDA), Sebastiano GIRMENIA (ITALY)

**EARLY MANAGEMENT OF FRACTURES IN THE DEPLOYED SETTING – BRITISH MILITARY EXPERIENCE**

Ian SARGEANT (UNITED KINGDOM)

**IS THERE A PLACE FOR OSTHEOSYNTHESIS IN THE TREATMENT OF LEG FRACTURES IN WAR-WOUNDED PATIENTS? RESULTS OF THE EXPERIENCE OF EMERGENCY IN AFGHANISTAN**

Alberto LANDINI (ITALY)

**MODERN MILITARY SURGERY IN WAR CONTEXT: THE FRENCH MILITARY HEALTH SERVICE EXPERIENCE**

Sylvain RIGAL (FRANCE)

**THE GLOBAL CONSENSUS FOR LIMB SURGERY IN CONFLICTS**

Harald VEEN (NETHERLANDS)

**BONE CULTURE DURING RECONSTRUCTIVE SURGERY ON WAR-WOUNDED CIVILIAN**

Patrick HÉRARD, Rasheed AL SAMMARAIE (FRANCE)

15:30 - 16:00 **Break**

16:00 - 17:30 **WOC (World Orthopaedic Concern) Free Papers – Developing World**

*Moderators:*

John DORMANS (UNITED STATES), James KIGERA (KENYA)

- 44273 A MULTIDISCIPLINARY APPROACH FOR IMPROVING PRACTICAL SKILLS OF ORTHOPAEDIC SURGEONS**  
Olivera LUPESCU, Taina Elena AVRAMESCU, Mihail NAGEA, Alexandru DIMITRIU, Cristina PATRU, Gheorghe Ion POPESCU, Nicolae Marian CIUREA (ROMANIA)
- 43182 SURGICAL MANAGEMENT AND RECONSTRUCTION TRAINING (SMART) COURSE FOR INTERNATIONAL ORTHOPAEDIC SURGEONS: SAVING LIMBS AFTER TRAUMATIC INJURY**  
Paul LEVY, Hao-Hua WU, Kushal PATEL, Amber CALDWELL, R. Richard COUGHLIN, Scott HANSEN, Joseph CAREY (UNITED STATES)
- 43633 HIGH INTERTESTER RELIABILITY OF THE “SQUAT-AND-SMILE” TEST FOR OBJECTIVE EVALUATION OF FUNCTIONAL OUTCOME IN PATIENTS WITH FEMORAL SHAFT FRACTURES**  
Paul LEVY<sup>1</sup>, Hao-Hua WU<sup>1</sup>, Max LIU<sup>1</sup>, Saam MORSHED<sup>1</sup>, Edmund ELIEZER<sup>2</sup>, Billy HAONGA<sup>2</sup>, Lewis ZIRKLE<sup>1</sup>, David SHEARER<sup>1</sup>  
<sup>1</sup>(UNITED STATES), <sup>2</sup>(TANZANIA)
- 44641 WHERE ARE THE FEMALE ORTHOPAEDIANS? A DEMOGRAPHIC STUDY TO EVALUATE LESS NUMBER OF FEMALE ORTHOPAEDIANS IN EASTERN INDIA**  
Divya MADHARIA, Ankit MADHARIA, Arun MADHARIA (INDIA)
- 44029 SITUATIONAL ANALYSIS ON THE CHALLENGES OF PROVIDING A DISTANCE E-LEARNING TRAUMA SCIENCES CURRICULUM IN MALAWI**  
Rowa TAHA, Kyle JAMES (MALAWI)
- 43308 INDUCED MEMBRANE TECHNIQUE (MASQUELET TECHNIQUE) FOR THE TREATMENT OF BONE DEFECT USING PIECE OF DISPOSABLE SYRINGE AS A SPACER IN DEVELOPING COUNTRIES**  
Myenuddin MOZUMDER, Arunava CHOWDHURY, Mozaherul ISLAM (BANGLADESH)
- 42529 DIAGNOSTIC ACCURACY OF XPRT MTB/RIF IN TISSUE SAMPLES OF CHILDREN WITH MUSCULOSKELETAL TB**  
Michael HELD, Maritz LAUBSCHER, Stewart MEARS, Heather ZAR, Stewart DIX-PEEK, Robert DUNN (SOUTH AFRICA)
- 45244 INITIATION OF DYNAMISATION IN EXTRAMEDULLARY NAIL FOR TROCHANTERIC FRACTURES**  
Milorad MITKOVIC, Milan MITKOVIC, Miodrag MANIC (SERBIA)
- 45599 REPRESENTATION OF LOW AND MIDDLE INCOME COUNTRIES (LMICS) IN ORTHOPAEDIC JOURNALS: A COMPARATIVE STUDY**  
Paul LEVY, Hao-Hua WU, Amber CALDWELL, David SHEARER (UNITED STATES)

- 42527 DISTRIBUTION AND EPIDEMIOLOGY OF MUSCULOSKELETAL TUBERCULOSIS – A PROSPECTIVE EVALUATION IN AN AREA OF HIGH DISEASE BURDEN**  
Michael HELD<sup>1</sup>, Maritz LAUBSCHER<sup>1</sup>, Stewart DIX-PEEK<sup>1</sup>, Mears STEWART<sup>1</sup>, Robert DUNN<sup>1</sup>, Heather ZAR<sup>1</sup>, Sven HOPPE<sup>2</sup>  
<sup>1</sup>(SOUTH AFRICA), <sup>2</sup>(SWITZERLAND)



**Thursday, 8 September**

**Bramante 4**

08:30 - 10:00 **Free Papers – Treatment of Bone Infections**

*Moderators:*

Vijay Kumar KHARIWAL (INDIA), Guenter LOB (GERMANY)

- 44488 ARTHROSCOPY VERSUS ARTHROTOMY AS TREATMENT OF CHOICE OF SEPTIC ARTHRITIS OF THE KNEE IN ADULT**  
José NEVES PINTO, David PINTO, João PROTÁSIO, Ricardo FERREIRA, Tiago COELHO, João ESTEVES (PORTUGAL)
- 44349 KNEE SEPTIC ARTHRITIS: IS THERE A DIFFERENCE BETWEEN PATIENTS WITH ISOLATED AND NON ISOLATED AGENTS, GRAM POSITIVE AGAINST GRAM NEGATIVE BACTERIA, AND S. AUREUS AGAINST NON-S. AUREUS INFECTIONS? A SINGLE INSTITUTION REVIEW OF 105 CASES IN 9 YEARS**  
Camilo HELITO, Paulo TEIXEIRA, Priscila OLIVEIRA, Cordeiro VLADIMIR, Jose PECORA, Gilberto CAMANHO, Marco DEMANGE, Ana LIMA (BRAZIL)
- 44045 ANTIBIOTIC-COATED INTERLOCKING IN PATIENTS WITH INFECTED NON-UNIONS OF LOWER EXTREMITY LONG BONES**  
Pavel VOLOTOVSKI, Alexandre SITNIK, Alexander BELETSKY, Oleg BONDAREV (BELARUS)
- 44187 EFFICACY OF SINGLE DOSE VERSUS MULTIPLE DOSE INJECTABLE ANTIBIOTICS IN SURGERIES AROUND HIP JOINT**  
Nishit BHATNAGAR, Sumit SURAL, Sumit ARORA, S. Krishna PRAKASH, Anil DHAL (INDIA)
- 43733 ARTICULATING SPACERS IN TWO-STAGE REVISION OF THE KNEE JOINT**  
Alexey MUZYCHENKOV, Valery MURILEV, Gennadii KAVALERSKII, Yaroslav RUKIN (RUSSIA)

- 43807 CUSTOM-MADE CEMENT IMPREGNATED ANTIBIOTIC NAIL FOR INFECTED NON-UNIONS – A CASE SERIES**  
Mridul ARORA, Ashok ARORA (INDIA)
- 43707 IS TWO-STAGE REIMPLANTATION EFFECTIVE FOR THE TREATMENT OF PERIPROSTHETIC KNEE INFECTION CAUSED BY RESISTANT BACTERIA?**  
Michele VASSO<sup>1</sup>, Alfredo SCHIAVONE PANNI<sup>1</sup>, Ivan DE MARTINO<sup>2</sup>, Giorgio GASPARINI<sup>1</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(UNITED STATES)
- 42683 A PROTOCOL FOR STAGED ARTHROPLASTY TO SALVAGE INFECTED NON-UNION OF THE FEMORAL NECK**  
Osama GAMAL, Ayman EBIED, Ahmed HANY (EGYPT)
- 43710 ANTIBIOTIC IMPREGNATED BONE CEMENT COATED INTRAMEDULLARY NAIL AS A TREATMENT OF CHRONIC OSTEOMYELITIS AND INFECTIVE NON-UNION OF LONG BONES**  
Jay PATEL, Rahul SALUNKHE, Samarkumar BISWAS (INDIA)

10:00 - 10:30 *Break*

10:30 - 12:00 *Symposium – Post-Traumatic Infection*

*Moderators:*

Ferdinando DA RIN DE LORENZO (ITALY), Guenter LOB (GERMANY)

**LARGE DIAPHYSEAL BONE LOSS, TREATED BY AN INTRAMEDULLARY SPACER SYSTEM**

Guenter LOB (GERMANY)

**NEW OPERATION OF TIBIO-CALCANEO-NAVICULO ARTHRODESIS AFTER ASTRAGALECTOMY RESULTING FROM A FRACTURE OF THE TALUS – IT'S TOTAL NECROSIS OR OSTEOMYELITIS**

Chingiz ALIZADE (AZERBAIJAN)

**TECHNIQUES TO SHORTEN THE DURATION OF BONE RECONSTRUCTION IN TREATMENT OF BONE INFECTION**

Khaled EMARA (EGYPT)

**POST-TRAUMATIC INFECTIONS OF THE UPPER LIMB**

Alexander KIRIENKO (ITALY)

**POST-TRAUMATIC OSTEOMYELITIS IN CHILDREN**

Ashok JOHARI (INDIA)

**THE COSTS OF INFECTIONS**

Konstantinos MALIZOS (GREECE)

**DISCUSSION**

12:00 - 12:30 **Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)**

**ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**  
Rodolfo CAPANNA (ITALY)

12:30 - 14:00 **Break**

14:00 - 15:30 **Symposium – Periprosthetic Infection**

*Moderators:*

Jacques CATON (FRANCE), Ferdinando DA RIN DE LORENZO (ITALY)

**RISK FACTORS OF PERIPROSTHETIC INFECTION AND MY EXPERIENCE OF HOW TO PREVENT AN INFECTION**

Sebastien LUSTIG (FRANCE)

**DIAGNOSIS OF PERIPROSTHETIC INFECTION WITH THE INNOVATIONS IN THE DIAGNOSIS AND COMPARISONS WITH OTHER DIAGNOSTIC METHODS**

Fatih KUCUKDURMAZ (TURKEY)

**IMPLANT COATINGS: RATIONALE AND REASONS FOR A CHOICE**

Carlo ROMANO (ITALY)

**THE TREATMENT OF PJI AT TKA: ONE-STAGE OR TWO-STAGE?**

Akos ZAHAR (GERMANY)

**PRIMARY HIP STEMS IN TWO-STAGE REVISION AFTER EXTENSIVE LATERAL WINDOW APPROACH: RESULTS AND ADVANTAGES**

Giorgio BURASTERO, G. CARREGA, L. CAVAGNARO, M.M. BASSO, G. PAPA, L. FELLI (ITALY)

**OUR EXPERIENCE WITH ARTICULAR SPACER – FOLLOW-UP OF MAXIMUM 14 YEARS**

Claudio CASTELLI (ITALY)

**ARTHRODESIS IN PERIPROSTHETIC KNEE INFECTIONS**

Ferdinando DA RIN DE LORENZO (ITALY)

**THE ROLE OF MEGA-IMPLANTS**

Giorgio Maria CALORI (ITALY)

15:30 - 16:00 **Break**

16:00 - 17:30

**Invited Lecture & Free Papers – Diagnosis of Bone Infection**

*Moderators:*

Ferdinando DA RIN DE LORENZO (ITALY), Fatih KUCUKDURMAZ (TURKEY)

**Invited Speaker**

**WHAT WE DO TODAY IN ITALY FOR BONE INFECTION**

Ferdinando DA RIN DE LORENZO (ITALY)

**45262 COMPARATIVE EVALUATION OF MICRODTTECT DEVICE AND FLOCKED SWABS IN THE DIAGNOSIS OF PROSTHETIC AND ORTHOPAEDIC INFECTIONS**

Giorgio Maria CALORI, Massimiliano COLOMBO, Paola NAVONE, Marta NOBILE, Francesco AUXILIA, Marco TOSCANO, Lorenzo DRAGO (ITALY)

**44115 MULTIPLEX-PCR: A NEW RAPID AND SECURE METHOD TO DIAGNOSE AN INFECTION IN ORTHOPAEDIC PATIENTS?**

Irene Katharina SIGMUND, Jutta GAMPER, Florian SEVELDA, Reinhard WINDHAGER, Johannes HOLINKA (AUSTRIA)

**43022 PREDICTING LOWER LIMB PERIPROSTHETIC JOINT INFECTIONS: A REVIEW OF RISK FACTORS AND THEIR CLASSIFICATION**

David GEORGE<sup>1</sup>, Drago LORENZO<sup>2</sup>, Sara SCARPONI<sup>2</sup>, Enrico GALLAZZI<sup>2</sup>, Fares HADDAD<sup>1</sup>, Carlo ROMANO<sup>2</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(ITALY)

**45494 BONE AND IMPLANT INFECTION WORKLOAD IN ORTHOPAEDIC PATIENTS – SERVICE EVALUATION IN A MAJOR TRAUMA CENTRE**

James GEDDES, Sivaraman BALASUBRAMANIAN, Eliot REES, Anup PRADHAN, Iain MCFADYEN (UNITED KINGDOM)

**43867 THE SURGICAL SITE INFECTION INCIDENCE: CORRELATION AMONG AGE, DIABETES, SMOKE AND OPERATING RISK**

Michele Attilio ROSA, Domenico FENGA, David Joaquin ORTOLÀ MORALES, Francesco CENTOFANTI (ITALY)

**43913 THE EFFECT OF THE ANAESTHETIC SCREEN DRAPE ON VERTICAL LAMINAR AIR FLOW**

Ranjit SEHJAL, Nik BAKTI, Richard GODDARD (UNITED KINGDOM)

**43670 A MINIMUM 4 YEARS' FOLLOW-UP RESULT OF SINGLE-STAGE REVISION FOR CHRONIC PERIPROSTHETIC JOINT INFECTION OF KNEE**

Li CAO (CHINA)

**45175 TREATMENT OPTIONS AND RISK FACTORS ANALYSIS PREDISPOSING TO PERIPROSTHETIC HIP INFECTION**

Giandomenico LOGROSCINO, Fabrizio DONATI, Carmine DE IESO, Vincenzo CAMPANA, Massimo FANTONI (ITALY)



## Thursday, 8 September

### Bramante 6-7

08:30 - 10:00

#### **CAOS (International Society for Computer Assisted Orthopaedic Surgery) Symposium & Free Papers – Knee I**

*Moderators:*

Kamal DEEP (UNITED KINGDOM), Francesco FALEZ (ITALY)

#### **HOW WE HAVE REACHED THE NUMBER WE AIM FOR IN KNEE REPLACEMENT – CORONAL AND SAGITTAL ALIGNMENTS, ROTATION, SOFT TISSUES**

Chitranjan RANAWAT (UNITED STATES)

#### **WHY I ABANDONED NAVIGATION**

Francesco BENAZZO (ITALY)

#### **WHY I AM FED UP OF TALKING ABOUT NAVIGATION**

Frederic PICARD (UNITED KINGDOM)

#### **NEW TECHNOLOGIES: STATE OF ART AND ITALIAN CONTRIBUTION**

Norberto CONFALONIERI (ITALY)

#### **SUM UP & PANEL DISCUSSION**

Francesco FALEZ<sup>1</sup>, Kamal DEEP<sup>2</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(UNITED KINGDOM)

#### **44670 TECHNOLOGY OPTIMISED ENHANCED RECOVERY SOLUTIONS IMPROVE OUTCOMES IN TOTAL HIP (THA) AND KNEE ARTHROPLASTY (TKA)**

Prakash JAYAKUMAR<sup>1</sup>, Jianing DI<sup>1</sup>, Jiayu FU<sup>2</sup>, Joyce CRAIG<sup>1</sup>, Seyi OLUBAJO<sup>1</sup>, Vicki NADARAJAH<sup>1</sup>, Jade COPE<sup>1</sup>, Markus BANKES<sup>1</sup>, Peter EARNSHAW<sup>1</sup>, Zameer SHAH<sup>1</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(UNITED STATES)

10:00 - 10:30

*Break*

10:30 - 12:00

#### **CAOS (International Society for Computer Assisted Orthopaedic Surgery) Symposium & Free Papers – Hip**

*Moderators:*

André FERREIRA (FRANCE), Frederic PICARD (UNITED KINGDOM)

#### **WHAT WE NEED TO MEASURE IN HIPS AND HOW I DO IT**

Jacques CATON (FRANCE)

**NAVIGATION GIVES YOU WHAT YOU THINK AT THE BACK OF YOUR MIND**

Kamal DEEP (UNITED KINGDOM)

**FUNCTIONAL AND ANATOMICAL COORDINATES OF THE HIP IN THA**

Nobuhio SUGANO (JAPAN)

**43667 ROBOT-ASSISTED HIP REPLACEMENT SURGERY (MAKOPLASTY):  
ADVANTAGES AND PRELIMINARY RESULTS**

Piergiuseppe PERAZZINI, Alberto MARANGON, Paolo SEMBENINI,  
Francesco ALBERTON (ITALY)

**46024 USE OF ULTRASOUND BASED REGISTRATION INCREASES CUP ACCURACY  
AND REDUCES REGISTRATION ERROR IN NAVIGATED TOTAL HIP  
REPLACEMENT**

Georgi WASSILEW, Hartmuth KIEFER, Keosun SAMBO, Bjoern LEDER  
(GERMANY)

**DISCUSSION & SUM UP**

André FERREIRA<sup>1</sup>, Frederic PICARD<sup>2</sup>  
<sup>1</sup>(FRANCE), <sup>2</sup>(UNITED KINGDOM)

12:00 - 12:30

*Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*

**ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**

Rodolfo CAPANNA (ITALY)

12:30 - 14:00

*Break*

14:00 - 15:30

**CAOS (International Society for Computer Assisted Orthopaedic  
Surgery) Symposium – Knee II**

*Moderators:*

Norberto CONFALONIERI (ITALY), Jean Yves JENNY (FRANCE)

**OSTEOTOMIES AROUND THE KNEE AND CAS**

Dominique SARAGAGLIA (FRANCE)

**SMALL IMPLANTS AND CAOS**

Norberto CONFALONIERI (ITALY)

**USING NAVIGATION WITHOUT PINS**

Ajeya ADHIKARI (UNITED KINGDOM)

**ROLE OF ROBOTICS IN KNEE REPLACEMENT**

Stefan KREUZER (ITALY)

**SOFT TISSUE BALANCING WITH AUTOMATED SPACERS**

Jan KOENIG (UNITED STATES)

**NAVIGATION AS A LEARNING TOOL**

Jean Yves JENNY (FRANCE)

15:30 - 16:00 *Break*

16:00 - 17:30

**CAOS (International Society for Computer Assisted Orthopaedic Surgery) Symposium & Free Papers – Other Uses of CAOS Technology**

*Moderators:*

Andrea FERRETTI (ITALY), Dominique SARAGAGLIA (FRANCE)

**ANTERIOR CRUCIATE DEFICIENT KNEES: HOW CAN CAOS HELP?**

Andrea FERRETTI (ITALY)

**SAVING THE LIMBS AND JOINTS – TUMOURS AND CAS**

Ashish MAHENDRA (UNITED KINGDOM)

**43103 ASSESSMENT OF NERVE FIBRE TRANSACTION IN ACUTE SPINAL CORD INJURY USING TRACTOGRAPHIC 3D RECONSTRUCTION**

Shyam Kumar SARAF, Ashish VERMA, Ritu OJHA (INDIA)

**44654 E-HEALTH: TRANSFORMING HEALTH CARE SERVICES**

Sejal SHAH (INDIA)

**44316 E-LEARNING IN TEACHING ORTHOPAEDIC SURGEONS**

Olivera LUPESCU<sup>1</sup>, Taina Elena AVRAMESCU<sup>1</sup>, Cristina PATRU<sup>1</sup>, Mihail NAGEA<sup>1</sup>, Stavros PERANTONIS<sup>2</sup>, Vassilis VIRVILIS<sup>2</sup>, Ioannis PRATIKAKIS<sup>2</sup>  
<sup>1</sup>(ROMANIA), <sup>2</sup>(GREECE)

**44860 E-LEARNING IN TRAUMA EDUCATION: MOTIVATION IS SIGNIFICANTLY INCREASED BY MOOCS**

Francesca VON MATTHEY, Karl-Georg KANZ, Peter BIBERTHALER (GERMANY)



## Thursday, 8 September

### Bramante 8-9

08:30 - 10:20

*19<sup>th</sup> Cooperative Course for Polytrauma Management – Beyond ATSL - Part II*

10:20 - 10:30

*Break*

10:30 - 12:00

*Free Papers – Lower Extremity Trauma I*

*Moderators:*

Mario ARDUINI (ITALY), Thami BENZAKOUR (MOROCCO)

**45518 INCREASED RISK OF MORTALITY IN HIP FRACTURES WITH DEMENTIA – IS THERE A ROLE OF PALLIATIVE CARE?**

Kiran RAMESH, Medha KANITKAR, Navnit MAKARAM, Amit PRAMANIK, Makaram SRINIVASAN (UNITED KINGDOM)

**45078 OSTEOSYNTHESIS FAILURE – IT’S NOT “JUST ANOTHER TROCHANTERIC FRACTURE”**

Diogo RAMALHO, Joaquim SOARES DO BRITO, André SPRANGER, Paulo ALMEIDA (PORTUGAL)

**45008 DISTAL LOCKING IN SHORT HIP NAILS: CAUSE OR PREVENTION OF PERI-IMPLANT FRACTURES?**

Jiri SKALA-ROSENBAUM, Valer DZUPA, Pavel DOUSA, Martin KRBEK (CZECH REPUBLIC)

**44413 EXTERNAL FIXATION OF TROCHANTERIC FRACTURES UNDER LOCAL ANAESTHESIA – OUTCOMES OF THE TREATMENT OF 200 PATIENTS WITH A LONG FOLLOW-UP OF 24 MONTHS**

Mohamed Altayeb MUSSA, Adel Refaat AHMED (EGYPT)

**42622 TREATMENT OF DISTAL FEMUR FRACTURES WITH METAPHYSEAL AND DIAPHYSEAL BONE LOSS – SURGICAL TACTICS USING THE ILIZAROV FRAME**

Francesco SALA, Maurizio CATAGNI, Giovanni LOVISETTI, Federico BOVE, Paolo CAPITANI, Daniele PILI (ITALY)

**43349 THE RETROGRADE TIBIAL NAIL – A SURGICAL FEASIBILITY STUDY**

Sebastian KUHN, Pol M. ROMMENS (GERMANY)

- 45233 THE 6-HOUR RULE FOR SURGICAL DEBRIDEMENT OF OPEN TIBIAL FRACTURES – A SYSTEMATIC REVIEW AND META-ANALYSIS OF INFECTION AND NON-UNION RATES**  
Apostolos PRODROMIDIS, Charalambos CHARALAMBOUS (UNITED KINGDOM)
- 45020 ROTATIONAL PROFILE OF ANTEROMEDIAL SURFACE OF DISTAL TIBIA: A COMPUTERISED TOMOGRAPHY STUDY**  
Ercan SAHIN, Murat SONGUR, Mehmet Ali DEVECI, Ibrahim Ilker OZ, Ahmet BAYAR, Selçuk KESER (TURKEY)
- 44304 DIAGNOSTIC ACCURACY AND RELIABILITY OF THE MALLEOLAR FRACTURES CLASSIFICATION SYSTEM FOR ANKLE SYNDESMOSIS INJURY: A PROSPECTIVE STUDY**  
Girolando PICCA, Vicenti GIOVANNI, Massimiliano CARROZZO, Antonella ABATE, Antonio COLELLA, Giuseppe SOLARINO, Biagio MORETTI (ITALY)
- 44234 A COMPARISON OF DIRECT ANTERIOR APPROACH AND TRANSGLUTEAL APPROACH FOR TOTAL HIP ARTHROPLASTY IN UNSTABLE FEMORAL NECK FRACTURES**  
Samer HAGE, Antoine MAALOUF, Gaby HAYKAL (LEBANON)
- 12:00 - 12:30 *Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*
- ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**  
Rodolfo CAPANNA (ITALY)
- 12:30 - 14:00 *Break*
- 14:00 - 15:30 *Invited Lecture & Free Papers – Upper Extremity Trauma I*
- Moderators:*  
Vilmos VECSEI (AUSTRIA), NN
- Invited Speaker* **PROXIMAL HUMERAL FRACTURES: MANAGEMENT OF FAILED FIXATION**  
Federico GRASSI (ITALY)
- 43229 COMPLEX HUMERAL FRACTURE TREATED WITH A NEW DEVICE**  
Claudio ASCANI, Raffaele RUSSO, Nicolò GALVANO, Antonio MATTEI (ITALY)
- 43243 LOCKING PLATE FIXATION – IS IT RELIABLE ENOUGH FOR PATIENTS OF ADVANCED AGE WITH PROXIMAL HUMERUS FRACTURES?**  
Asen BALTOV, Mihail RASHKOV, Dian ENCHEV (BULGARIA)

- 43194 MID-TERM RESULTS OF SURGICAL TREATMENT OF DISPLACED PROXIMAL HUMERAL FRACTURES IN CHILDREN**  
Claudia DE CRISTO, Vito PAVONE, Luca CANNAVÒ, Gianluca TESTA, Giuseppe CONDORELLI, Giuseppe SESSA (ITALY)
- 43239 A SURGICAL TECHNIQUE TO AVOID INFRA-CLAVICULAR ANAESTHESIA, AFTER PLATE-FIXATION OF FRACTURE CLAVICLE**  
Abhay MANCHANDA, Abhilash SHISHODIA, Vineet Kumar GOHIYA (INDIA)
- 44226 TREATMENT OF HUMERUS SHAFT FRACTURE WITH FUNCTIONAL CAST BRACE IN ADULTS**  
Ahmed Gaber MOSTAFA, Atef MORSY, Emad ELBANA, Ayman ABD ELBASET (EGYPT)
- 42880 NEWER SURGICAL TECHNIQUE FOR EXCISION ARTHROPLASTY WITH OR WITHOUT FASCIA LATA GRAFT AS A SALVAGE PROCEDURE FOR THE ELBOW**  
Surbhit RASTOGI, Hitesh DAWAR, Deepak RAINA (INDIA)
- 42815 A TEN-YEAR ANALYSIS OF DISTAL BICEPS REPAIRS**  
Paul BREWER, Noman SAGHIR, Daniel WILSON, Hany ISMAIEL (UNITED KINGDOM)

15:30 - 16:00 *Break*

16:00 - 17:30 *Free Papers – Upper Extremity Trauma II*

*Moderators:*

Guenter LOB (GERMANY), Federico SANTOLINI (ITALY)

- 44282 OUTCOME ANALYSIS OF INTRA-ARTICULAR SCAPULA FRACTURE FIXATION WITH DISTAL RADIUS PLATE: A MULTI-CENTRE PROSPECTIVE STUDY**  
Ranajit PANIGRAHI, Divya MADHARIA, Saswat SAMANT (INDIA)
- 44271 AN INNOVATIVE TECHNIQUE, USING SINGLE INCISION TIGHTROPE AUGMENTATION IN LATERAL THIRD CLAVICLE FRACTURES**  
Rajpal NANDRA, James HOLTON, Socrates KALOGRIANITIS (UNITED KINGDOM)
- 44235 INVERTED C SIGN IN ACUTE LATERAL THIRD CLAVICLE FRACTURES AS AN INDEPENDENT PROGNOSTIC INDICATOR FOR UNION**  
Praful KILARU (INDIA)
- 44253 ACUTE ACROMIO-CLAVICULAR DISLOCATION: IS CORACO-CLAVICULAR LIGAMENT RECONSTRUCTION NECESSARY?**  
Metwally SHAHEEN<sup>1</sup>, Enjie IBRAHIM<sup>1</sup>, Mostafa AZAB<sup>2</sup>  
<sup>1</sup>(SAUDI ARABIA), <sup>2</sup>(EGYPT)

- 43352 RESTORATION OF ANATOMICAL LENGTH IN TREATMENT OF NON-UNION OF MIDSHAFT CLAVICLE FRACTURES – A PROSPECTIVE STUDY**  
Vinod CHANDRASHEKAR, Raju PUTTAKEMPA (INDIA)
- 44097 ASSESSMENT OF FUNCTIONAL OUTCOMES OF ORIF WITH LOCKED PLATES IN FOUR-PART PROXIMAL HUMERUS FRACTURE: A PROSPECTIVE STUDY**  
Unmesh SAHOO (INDIA)
- 44178 OUTCOME OF OPERATIVE TREATMENT OF OLECRANON FRACTURES**  
Abdelaleem RAGAB, Manish DIVEKAR (UNITED KINGDOM)
- 44092 OPERATIVE FIXATION OF UNSTABLE CORONOID PROCESS FRACTURES USING BUTTRESS PLATING VIA A MEDIAL APPROACH**  
Kah Ho Kelvin LOR (SINGAPORE)



**Thursday, 8 September**  
**Tintoretto 2**

08:30 - 10:00

*Short Free Papers – Foot & Ankle*

*Moderators:*

Camilla MACCARIO (ITALY), Hany MOURKUS (UNITED KINGDOM)

- 43885 ALCOHOLISATION OF MORTON'S NEUROMA UNDER MRI, FLUOROSCOPIC AND NEUROGRAPHIC GUIDANCE**  
Christof PABINGER (AUSTRIA)
- 45644 COMPARATIVE STUDY OF TRICORTICAL VERSUS QUADRICORTICAL SYNDESMOSIS FIXATION IN ANKLE FRACTURES: PROSPECTIVE, RANDOMISED STUDY COMPARING TWO METHODS OF SYNDESMOSIS FIXATION**  
Ram Krishan SINGH DHAKAD, Sachin JAIN (INDIA)
- 43878 ADIPOSE-TISSUE STROMAL VASCULAR FOR THE TREATMENT OF ACHILLES TENDINOPATHY: A RANDOMISED PROSPECTIVE CLINICAL TRIAL**  
Camilla MACCARIO, Miriam GRASSI, Laura DE GIROLAMO, Federico USUELLI (ITALY)
- 44000 CLINICAL AND RADIOLOGICAL OUTCOME OF TIBIO-TALO-CALCANEAL ARTHRODESIS WITH RETROGRADE INTRAMEDULLARY SIGN NAIL**  
Ahmad SAEED, Ashfaq AHMAD, Amer AZIZ, Javed SHAHZAD, Naeem AHMED (PAKISTAN)

- 43016 PERCUTANEOUS AND ULTRASOUND ASSISTED SURGERY FOR ACUTE ACHILLES TEARS**  
Sergio GARCIA GRANJA, Monica RUBIO LORENZO, Guillermo MENENDEZ SOLANA, Luis Alejandro GIRALDO VEGAS, Gonzalo GARCIA PORTAL, Carlos GARCES ZARZALEJO, Jesus HERNANDEZ ELENA (SPAIN)
- 42899 NON-OPERATIVE TREATMENT OF ACUTE COMPLETE RUPTURE OR RE-RUPTURE OF ACHILLES TENDON WITHOUT ULTRASOUND VERIFICATION OF STUMP APPROXIMATION**  
Ki-Sun SUNG (SOUTH KOREA)
- 42780 CLINICAL OUTCOMES AND RETURN TO SPORTS IN PATIENTS WITH CHRONIC ACHILLES TENDON RUPTURE AFTER REPAIR WITH SEMITENDINOUS TENDON GRAFT TRANSFER**  
Federico Giuseppe USUELLI, Riccardo D'AMBROSI, Camilla MACCARIO (ITALY)
- 42974 TREATMENT OUTCOMES OF BUTTRESS PLATING FOR POSTERIOR PILON FRACTURES**  
Guangrong YU, Mingzhu ZHANG (CHINA)
- 43973 INCIDENCE AND UNION RATE OF AVULSION FRACTURE AT THE TIP OF THE FIBULA FOR ANKLE SPRAIN IN CHILDREN: A PROSPECTIVE STUDY**  
Satoshi YAMAGUCHI, Ryuichiro AKAGI, Jun ENDO, Yohei YAMAMOTO, Ryosuke NAKAGAWA, Takahisa SASHO (JAPAN)
- 44471 CHOICES OF IMPLANT IN MEDIAL MALLEOLAR FRACTURE – TEN-YEAR EXPERIENCE IN VGHTPE AND LITERATURE REVIEW**  
Yen-Wen CHENG, Yu-Ping SU, Chuanmu CHEN, Fan-Yao CHIU, Ming-Chao CHANG (TAIWAN)
- 45662 RELIABILITY OF TWO SMARTPHONE APPLICATIONS FOR RADIOGRAPHIC MEASUREMENTS OF HALLUX VALGUS ANGLES**  
Rodrigo PAGNANO, Mauro MATTOS E DINATO, Marcio FREITAS, Cristiano MILANO, Elcio VALLOTO JR, André NINOMIYA (BRAZIL)
- 45316 IMPLEMENTATION OF A DEDICATED CLUBFOOT CLINIC SIGNIFICANTLY DECREASES THE OCCURRENCE OF MAJOR UNPLANNED CLUBFOOT SURGERY: A QUALITY IMPROVEMENT INITIATIVE**  
Nancy MILLER, Gaia GEORGOPOULOS, Graham SUE, Karen WHALEN, Robin BASCHAL, Debbie BURKE, Alex JONES, Patrick CARRY (UNITED STATES)
- 44645 MINIMALLY INVASIVE TECHNIQUES ASSOCIATED WITH MIDFOOT FUSION BOLTS IN CHARCOT FOOT: CASE SERIES AND BIOMECHANICAL RESULTS**  
Dan LAPTOIU, Iozefina BOTEZATU, Rodica MARINESCU, Iulian ANTONIAC, Dan Ioan STOIA (ROMANIA)

**43206 MIS TECHNIQUE FOR CALCANEAL SHIFT – DOES IT WORK?**

Hany MOURKUS, Hari PREM (UNITED KINGDOM)

**45333 LONG-TERM RESULTS OF TREATMENT OF PATIENTS WITH HALLUX VALGUS WITH THE USE OF MINIMALLY INVASIVE SERI-OSTEOTOMY**

Saodat ASILOVA, Albert YUGAY, Gulruh UMAROVA, Elmurod SUPIEV, Bekzod UBAYDULLAEV (UZBEKISTAN)

10:00 - 10:30 *Break*

10:30 - 12:00 *Short Free Papers – Paediatrics*

*Moderators:*

Richard GROSS (UNITED STATES), NN

**42670 SINGLE EVENT MULTILEVEL SOFT TISSUE RELEASE FOR SPASTIC DIPLEGIC CEREBRAL PALSY**

Pawin GAJASENI, Pattanaket CHEEWAKONGKIAT, Panya SURIJAMORN, Thammanoon SRISAARN (THAILAND)

**44375 THE TRIPLE PELVIC OSTEOTOMY IN THE TREATMENT OF THE II TYPE AVN IN CHILDREN**

Viachaslau BRADKO, Aleh SAKALOUSKI, Yuri LIKHACHEUSKI, Oksana KOVALCHUK (BELARUS)

**43214 THE RELATIONSHIP BETWEEN POWER DOPPLER PERFUSION PARAMETERS OF FEMORAL HEAD BLOOD SUPPLY AND SEPTIC ARTHRITIS OF HIP IN INFANCY**

Alaric AROOJIS, Rujuta MEHTA (INDIA)

**43189 THE RIB CONSTRUCT FOR MANAGEMENT OF EARLY ONSET SPINAL DEFORMITY WITH SEVERE THORACIC KYPHOSIS**

Alaa AHMAD<sup>1</sup>, Zeke WALTON<sup>2</sup>, Richard GROSS<sup>2</sup>  
<sup>1</sup>(PALESTINE), <sup>2</sup>(UNITED STATES)

**43953 ROLE OF SKIN TRACTION AND THIGH LACER IN FEMUR SHAFT FRACTURE IN CHILDREN**

Yuvraj HIRA (INDIA)

**45491 THE MANAGEMENT OF SUPRACONDYLAR HUMERAL FRACTURES IN CHILDREN – AUDIT REVIEW OF PRACTICE IN A BUSY DISTRICT GENERAL HOSPITAL OVER A CALENDAR YEAR**

Angus FONG, William GIBSON, Paul HASLAM (UNITED KINGDOM)

**44951 HAND AND WRIST TUBERCULOSIS IN PAEDIATRIC PATIENTS – OUR EXPERIENCE IN 44 PATIENTS**

Jatin PRAKASH (INDIA)

- 43141 CORRECTION OF LOWER LIMB DEFORMITIES IN CHILDREN WITH RENAL OSTEODYSTROPHY BY HEMIEPIPHYSIODESIS METHOD**  
Cosimo GIGANTE, Marco CORRADIN, Andrea BORGIO (ITALY)
- 44578 CALCANEUS STOP: 20 YEARS OF EXPERIENCE**  
Mario Alberto JUANTO, Eduardo Manuel FERNANDEZ, Maria Belen VITTONI, Maria Belen SINOPOLI (ARGENTINA)
- 12:00 - 12:30 *Plenary Lecture – Rodolfo Capanna (in Michelangelo 1)*
- ADVANCES IN SURGICAL RECONSTRUCTIONS FOR BONE TUMOURS**  
Rodolfo CAPANNA (ITALY)
- 12:30 - 14:00 *Break*
- 14:00 - 15:30 *Short Free Papers – Research*
- Moderators:*  
Khalid AL-HOURANI (UNITED KINGDOM), Luigi MECCARIELLO (ITALY)
- 43277 MONITORING OF NITRIC OXIDE METABOLITE LEVEL IN CEREBROSPINAL FLUID IN ACUTE SPINAL CORD INJURY – AN OUTCOME ANALYSIS**  
Jyoti PRAKASH, Saurabh SINGH, Rakesh SINGH, Ashish VERMA (INDIA)
- 45217 DEVELOPMENT AND IN VIVO ANALYSIS OF A NEW BIOACTIVE INJECTABLE BONE-SUBSTITUTE MADE OF CALCIUM PHOSPHATE AND STRONTIUM**  
Giandomenico LOGROSCINO, Fabrizio DONATI, Wanda LATTANZI, Enrico POLA, Carmine DE IESO, Vincenzo CAMPANA, Simone SPRIO, Elisa FIGALLO, Anna TAMPIERI, Giuliano Giorgio CERULLI (ITALY)
- 45016 FATIGUE TESTING OF A COMPOSITE MENISCUS IMPLANT – WHAT ARE THE LIMITS?**  
Maoz SHEMESH<sup>1</sup>, Jonathan J. ELSNER<sup>2</sup>, Adaya SHEFY-PELEG<sup>1</sup>, Eyal ZYLBERBERG<sup>1</sup>, Eran LINDER-GANZ<sup>1</sup>  
<sup>1</sup>(ISRAEL), <sup>2</sup>(UNITED STATES)
- 42838 EVALUATION OF TITANIUM-COATED PEDICLE SCREWS: IN-VIVO PORCINE LUMBAR SPINE MODEL**  
Jong-Kil KIM, Kwang-Bok LEE, Tae-Young KWON, Seong-II WANG (SOUTH KOREA)

- 44658 REAR-FOOT LOADING IS MORE PREFERABLE THAN FOREFOOT LOADING IN PARTIAL WEIGHT BEARING – RESULTS FROM IN VIVO MEASUREMENTS OF TIBIA DEFORMATION**  
Bergita GANSE, Peng-Fei YANG, Jenny GARDLO, Peter GAUGER, Andreas KRIECHBAUMER, Hans-Christoph PAPE, Timmo KOY, Lars Peter MÜLLER, Joern RITTWEGGER (GERMANY)
- 43302 EVALUATION OF THE EFFECTS OF PEDICLE SCREW CHARACTERISTICS ON CONTRALATERAL IMPLANT LIFESPAN VIA FINITE ELEMENT ANALYSIS AND TAGUCHI'S METHOD**  
Halil ATMACA, Levent UGUR, Aytac YILDIZ (TURKEY)
- 43286 FOOT LOADING AND GAIT ANALYSIS EVALUATION IN 13 CONSECUTIVE PATIENTS SUFFERING FROM BI-COLUMN ACETABULAR FRACTURES TREATED BY OPEN INTERNAL SURGERY**  
Luigi MECCARIELLO, Gabriele FALZARANO, Antonio MEDICI (ITALY)
- 43266 EVALUATION OF 3 SCOUTING KNOTS AND MODIFIED ROLLING HITCH FOR SOFT-TISSUE GRAFT FIXATION: A PORCINE BIOMECHANICAL STUDY**  
Chih-Kai HONG, Ting-Hsuan KUO, Ming-Long YEH, I-Ming JOU, Cheng-Li LIN, Chih-Hsun CHANG, Wei-Ren SU (TAIWAN)
- 45329 SELF-PERCEPTION IN ORTHOPAEDIC TRAINEES: IS THERE A GENDER DIFFERENCE?**  
Aparna VISWANATH, Helen CHASE, Lora YOUNG, Susan DEAKIN (UNITED KINGDOM)
- 45323 IMPROVING PERFORMANCE WITH EXCELLENCE: THE EFQM MODEL IN ORTHOPAEDICS**  
Gerwin Alexander BERNHARDT, Bernd PICHLER, Sandra EMINOVIC, Christoph KUMPITSCH, Christian KAPELLER, Patrick SADOGLI, Florian AMERSTORFER, Magdalena GILG, Birgit LOHBERGER, Hanna SCHMIDBERGER, Gerald GRUBER, Andreas LEITHNER (AUSTRIA)
- 44532 IMPLEMENTING AN OUTPATIENT TOTAL JOINT REPLACEMENT PROGRAMME**  
Ianiv KLABER, Orlando PAREDES, Eduardo RAVIOLA (CHILE)
- 44209 FUNCTIONAL AND HISTOLOGICAL ANATOMY OF THE STERNOCLAVICULAR JOINT**  
Yasushi SHINOHARA<sup>1</sup>, Tsukasa KUMAI<sup>1</sup>, Ichiro HIGASHIYAMA<sup>1</sup>, Yasuhito TANAKA<sup>1</sup>, Stefan MILZ<sup>2</sup>  
<sup>1</sup>(JAPAN), <sup>2</sup>(GERMANY)
- 43559 ROLE OF PLATELET RICH PLASMA ON TENDINOPATHIES**  
Abhijit SAHU (INDIA)

- 42634 FIVE-YEAR PUBLICATION RATE OF PODIUM PRESENTATIONS AT SICOT ANNUAL CONFERENCE: AN OBSERVATIONAL STUDY**  
Khalid AL-HOURANI<sup>1</sup>, Rami AL-AREF<sup>2</sup>, Robert LEY-GREAVES<sup>1</sup>, Fatima BALLOUT<sup>2</sup>, Addisu MESFIN<sup>2</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(UNITED STATES)
- 42512 SHOCK WAVES PROMOTE THE CELLULAR UPTAKE AND ENHANCE THE CYTOTOXICITY OF METHOTREXATE BY INCREASING ATP-MEDIATED PERMEABILISATION OF CELL MEMBRANE**  
Baochang QI, Tiecheng YU, Tiejun WANG, Dahui SUN (CHINA)
- 15:30 - 16:00 *Break*
- 16:00 - 17:30 *Short Free Papers – Tumours*
- Moderators:*  
Mehmet Ali DEVECI (TURKEY), Pietro RUGGIERI (ITALY)
- 45659 UTILISING FINITE ELEMENT ANALYSIS TO PREDICT HEALING AND WEIGHT BEARING STATUS OF COMPLEX TIBIAL FRACTURES TREATED WITH ILIZAROV FRAMES**  
Robert HURLEY, Jamie CONCANNON, Nicola KELLY, John MCCABE (IRELAND)
- 45627 SILVER-COATED PROSTHESIS IN ONCOLOGICAL LIMB SALVAGE SURGERY REDUCES THE INFECTION RATE**  
Giulio MACCAURO, Fabrizio DONATI, Antonio ZIRANU, Carlo PERISANO, Silvia CARERI, Vincenzo DE SANTIS, Giulio DI GIACOMO (ITALY)
- 43827 SYNOVIAL HEMANGIOMA OF THE KNEE JOINT IN PAEDIATRICS: THREE PATTERNS OF TUMOUR LOCATION**  
Tetsuya SETO, Keiichi MURAMATSU, Ryuta IWANAGA, Yasuhiro TOMINAGA, Keitaro UMEHARA, Toshihiko TAGUCHI (JAPAN)
- 43115 A COMPARATIVE STUDY OF MINIMALLY INVASIVE APPROACH USING PERCUTANEOUS PEDICLE SCREWS FIXATION VERSUS OPEN APPROACH IN METASTATIC SPINE TUMOUR SURGERY**  
Karthikeyan MAHARAJAN, Aye ZAW, Rishi MALHOTRA, Naresh KUMAR (SINGAPORE)
- 44594 POLO-LIKE KINASE 2 ACTING AS A PROMOTER IN HUMAN TUMOUR CELLS WITH AN ABUNDANCE OF TAP73**  
Hai LU, Zhengbo HU (CHINA)
- 43035 EXTENT OF SURGERY DOES NOT INFLUENCE 30-DAY MORTALITY IN SURGERY FOR METASTATIC BONE DISEASE**  
Michael Mørk PETERSEN, Michala Skovlund SØRENSEN, Klaus HINDSØ, Thea Bachman HOVGAARD (DENMARK)

- 43271 CANCER REHABILITATION OF CHILDREN WITH MUSCULOSKELETAL SEQUELAE OF SOLID MALIGNANT TUMOURS**  
Anna PETRICHENKO, Elena BUKREEVA, Alexandr OCHKURENKO, Nadezhda IVANOVA, Andrew PRITYKO (RUSSIA)
- 44119 EVALUATION OF NEOADJUVANT CHEMOTHERAPY RESPONSE IN MALIGNANT BONE TUMOURS WITH PET/CT AND DIFFUSION-WEIGHTED MR**  
Ryuta IWANAGA, Toshihiko TAGUCHI, Keiichi MURAMATSU, Yasuhiro TOMINAGA, Keitaro UMEHARA, Tetsuya SETO, Koichiro IHARA (JAPAN)
- 44595 PLK2 PHOSPHORYLATES AND INHIBITS ENRICHED TAP73 IN HUMAN OSTEOSARCOMA CELLS**  
Hai LU, Zhengbo HU (CHINA)
- 44712 EXTRACORPOREAL IRRADIATED BONE IN LIMB SALVAGE SURGERY – A USEFUL BIOLOGICAL OPTION**  
Mishil PARIKH, Ajay PURI, Ashish GULIA, Vijayraj PATIL, Siddharth LASKAR (INDIA)
- 43468 WHAT NEXT IF HISTOLOGY FAILS OR IS INCONCLUSIVE?**  
Vijay Kumar KHARIWAL, Sadhna GARG (INDIA)
- 44149 CLINICAL AND PATHOLOGIC RESULTS OF DENOSUMAB TREATMENT FOR GIANT CELL TUMOURS OF BONE: PROSPECTIVE STUDY ON 14 CASES**  
Mehmet Ali DEVECI, Semra PAYDAS, Gulfiliz GONLUSEN, Cenk OZKAN, Sunkar BICER, Mustafa TEKIN (TURKEY)
- 45216 PREOPERATIVE PLASMA YKL-40 LEVELS IN BONE AND SOFT TISSUE SARCOMA PATIENTS**  
Andrea THORN, Mette HARVING, Gunnar LAUSTEN, Julia JOHANSEN, Michael PETERSEN (DENMARK)
- 43112 COMMUNAL MULTIDISCIPLINARY MANAGEMENT OF MUSCULOSKELETAL TUMOURS: THE LAGOS EXPERIENCE**  
Akinola AKINMADE<sup>1</sup>, Oluwaseyi IDOWU<sup>1</sup>, Mohammed HABEEBU<sup>1</sup>, Obiageli NNODU<sup>1</sup>, Uwale Samuel EYESAN<sup>1</sup>, Suleiman Olayiwola GIWA<sup>1</sup>, Adesegun ABUDU<sup>2</sup>, Fatima ABDULKAREEM<sup>1</sup>  
<sup>1</sup>(NIGERIA), <sup>2</sup>(UNITED KINGDOM)

# Friday, 9 September

Time	Michelangelo 1	Michelangelo 2	Michelangelo 3	Caravaggio 1-2	Caravaggio 3-4	Caravaggio 5-6
08:30-10:00	<i>Invited Lecture &amp; Free Papers Pelvic Fractures</i> Page 52	<i>Invited Lecture &amp; Free Papers Hip Arthroplasty I</i> Page 55	<i>Free Papers Osteotomy &amp; Unicompartmental Knee Arthroplasty</i> Page 58	<i>Invited Lecture &amp; Free Papers Spinal Infection &amp; Trauma</i> Page 62	<i>Clubfoot Congress Basic Science Research</i> Page 66	<i>Symposium Fragility Fractures</i> Page 71
10:00-10:30	<i>Break</i>					
10:30-12:00	<i>Symposium Fractures of the Pelvis &amp; Acetabulum</i> Page 53	<i>Symposium Periprosthetic Fractures of the Hip &amp; Knee</i> Page 56	<i>Invited Lecture &amp; Free Papers Revision Total Knee Arthroplasty</i> Page 60	<i>Symposium Spine: Master Lectures on 'State of Art' Techniques</i> Page 64	<i>Clubfoot Congress Surgical Management of Clubfoot</i> Page 67	<i>Free Papers Trauma: Miscellaneous</i> Page 71
12:00-12:30	<b>Plenary Lecture (in Michelangelo 1) – Seth Greenwald</b> <b>ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME</b>					
12:30-14:00	<i>Break</i>		<b>SICOT GENERAL ASSEMBLY</b>	<i>Industry-Sponsored Symposium</i>	<i>Industry-Sponsored Symposium</i>	<i>Industry-Sponsored Symposium</i>
14:00-15:30	<i>AOTrauma Symposium Tips &amp; Tricks in Complex Cases</i> Page 54	<i>ARTOF Symposium Innovations in Hip Fracture Management</i> Page 57	<i>Symposium Total Ankle Replacement</i> Page 61	<i>AOAF Symposium Broken Bones Don't Mean Broken Lives - Improving Fracture Care in LMICs</i> Page 64	<i>Clubfoot Congress Ponseti Method</i> Page 68	<i>AORecon Symposium Controversies in Proximal Humeral Fracture Treatment</i> Page 73
15:30-16:00	<i>Break</i>					
16:00-17:30	<i>Symposium Periarticular Fractures of the Knee</i> Page 54	<i>Symposium Hip Arthroscopy</i> Page 57	<i>Invited Lecture &amp; Free Papers Foot &amp; Ankle Trauma</i> Page 61	<i>WOC Instructional Course Musculoskeletal Pathology with a Paucity of Modern Surgical Equipment</i> Page 65	<i>Symposium Update in Paediatric Orthopaedics</i> Page 70	<i>DMI'S Symposium Dual Mobility in Hip Arthroplasty</i> Page 73

Caravaggio 7-8	Bramante 2	Bramante 3	Bramante 4	Bramante 6-7	Bramante 8-9	Bramante 10-11	Bramante 12-14	Tintoretto 2
<i>ICRS/SICOT Symposium Osteochondral Defects: The Great Debate - Part I</i> Page 75	<i>Invited Lecture &amp; Free Papers Clinical Research</i> Page 78	<i>Instructional Course Reviewers Course - Part I</i> Page 82	<i>Free Papers Tuberculosis</i> Page 84					<i>Short Free Papers Shoulder</i> Page 92
<i>Break</i>								<i>Break</i>
<i>ICRS/SICOT Symposium Osteochondral Defects: The Great Debate - Part II</i> Page 75	<i>Free Papers Research in Biomaterials/ Biomechanics</i> Page 79	<i>Instructional Course Reviewers Course - Part II</i> Page 83	<i>EBJIS Symposium Campaign Against Disability</i> Page 85	<i>Industry-Sponsored Hands-on Course (09:30-15:30)</i>	<i>Industry-Sponsored Hands-on Course (10:00-12:00)</i>			<i>Short Free Papers Hip</i> Page 93
<i>Break</i>								<i>Break</i>
<i>Instructional Course Sports Medicine: Meet the Experts - My Favourite Anterior Cruciate Ligament Technique</i> Page 76	<i>Free Papers Research in Cartilage/ Tissue Engineering</i> Page 80	<i>Symposium Academic Writing in Orthopaedics</i> Page 83	<i>Symposium Osteoporosis-Related Fractures in Orthopaedic Surgery</i> Page 86			<i>Free Papers Lower Extremity Trauma II</i> Page 88		<i>Best Papers Session Page 90</i>
<i>Break</i>					<i>Break</i>			<i>Break</i>
<i>Free Papers Sports Medicine of the Shoulder</i> Page 77	<i>Free Papers Research: Miscellaneous</i> Page 81	<i>Symposium Management of Postoperative Pain</i> Page 84	<i>Free Papers Osteoporosis &amp; Metabolic Disorders</i> Page 86		<i>Symposium Leadership Management</i> Page 89			<i>Short Free Papers Spine</i> Page 97



## Friday, 9 September

### Michelangelo 1

08:30 - 10:00

#### *Invited Lecture & Free Papers – Pelvic Fractures*

*Moderators:*

David CHOON (MALAYSIA), Gabriele PANEGROSSI (ITALY)

***Invited Speaker***

**TRAUMATOLOGY IN ITALY TODAY, SCIENCE AND EVERYDAY PRACTICE**  
Francesco BIGGI (ITALY)

**44610 A BIOMECHANICS COMPARISON TEST OF THREE DIFFERENT INTERNAL FIXATIONS IN THE TREATMENT OF THE POSTERIOR WALL FRACTURE OF THE ACETABULUM**

Apipop KRITSANEEPHAIBOON, Boonsin TANGTRAKULWANICH, Atirach MUANGSAN (THAILAND)

**43172 MANAGEMENT OF ACETABULAR FRACTURES WITH MARGINAL IMPACTION: A PROSPECTIVE CASE SERIES STUDY**

Tarek ABDEL KHALEK, Mahmoud ABDEL KARIM, Mohamed YOUNESS, Sherif KHALED, Hazem ABDELAZEEM (EGYPT)

**45555 A COMPARATIVE STUDY OF SYMPHYSIS RE-DISPLACEMENT USING LOCKING AND NON-LOCKING PLATES IN PELVIC FRACTURE MANAGEMENT**

Taher ABDELRAHMAN, Sally WRIGHT, Angus LEWIS, Jasvinder DAURKA (UNITED KINGDOM)

**43495 BOWEL PREPARATION PRIOR TO PERCUTANEOUS ILIO-SACRAL SCREW INSERTION: IS IT NECESSARY?**

Andrea BOWE, Hasnain RAZA, Michael LEONARD, Nikos DAVARINOS (IRELAND)

**43188 PROGNOSTIC FACTORS FOR MORTALITY AFTER HIP FRACTURE: OPERATION WITHIN 48 HOURS IS MANDATORY**

Federico DETTONI, Federica ROSSO, Davide Edoardo BONASIA, Antonio MARMOTTI, Matteo BRUZZONE, Roberto ROSSI (ITALY)

**45538 UNCEMENTED HEMIARTHROPLASTY FOR FRACTURED NECK OF FEMUR**

Amr HUSSEIN, Farhan SYED, Paul SAUNDERS, Andrew SHEPHERD, Steve YOUNG (UNITED KINGDOM)

**43819 DHS AND FIBULAR STRUT GRAFT FOR FIXATION OF FRESH FEMORAL NECK FRACTURE WITH POSTERIOR COMMUNITIONS**

Adham ELGEIDI, Abed AL-NEGERY, Mohammed EL SAIED, Nabil EL MOGHAZY (EGYPT)

**43624 INCIDENCE AND CLINICAL FEATURES OF SACRAL INSUFFICIENCY FRACTURE**

Yasuaki TAMAKI, Akihiro NAGAMACHI, Makoto TAKEUCHI, Keisuke ADACHI, Kazumasa INOUE (JAPAN)

10:00 - 10:30 *Break*

10:30 - 12:00 *Symposium – Fractures of the Pelvis & Acetabulum*

*Moderators:*

Narender MAGU (INDIA), Ivan TARKIN (UNITED STATES)

**MINIMALLY INVASIVE FIXATION OF THE PELVIC RING**

Ivan TARKIN (UNITED STATES)

**SURGICAL TREATMENT OF COMBINED ACETABULAR AND PELVIC RING FRACTURES**

Jordan SAVESKI (MACEDONIA)

**TRAUMATIC PELVIC-ACETABULUM DISSOCIATION INJURIES**

Dariush GOURAN SAVADKOOHI (IRAN)

**INDICATIONS FOR COMPUTER ASSISTED SURGERY**

Meir LIBERGAL (ISRAEL)

**PRIMARY THR VS. ORIF FOR ACETABULAR FRACTURES**

David CHOON (MALAYSIA)

**PELVIC FRACTURES IN THE ELDERLY**

Frank HILDEBRAND (GERMANY)

**OSTEOTOMIES AROUND THE PELVIS: INDICATIONS AND TECHNIQUES**

Narender MAGU (INDIA)

**DISCUSSION**

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**

Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30

***AOTrauma Symposium – Tips & Tricks in Complex Cases***

*Moderators:*

Marco BERLUSCONI (ITALY), Filippo RANDELLI (ITALY)

**COMPLEX CASE: SHOULDER**

Marco BERLUSCONI (ITALY)

**COMPLEX CASE: HUMERUS**

Josep MUNOZ VIVES (SPAIN)

**COMPLEX CASE: HIP**

Filippo RANDELLI (ITALY)

**COMPLEX CASE: FEMUR**

Paulo FELICISSIMO (PORTUGAL)

**COMPLEX CASE: TIBIA**

Jean-Christoph BEL (FRANCE)

15:30 - 16:00

***Break***

16:00 - 17:30

***Symposium – Periarticular Fractures of the Knee***

*Moderators:*

Vilmos VECSEI (AUSTRIA), Boris ZELLE (UNITED STATES)

**FIXATION OF DISTAL FEMORAL FRACTURES BY RETROGRADE INTRAMEDULLARY NAILS**

Cyril MAUFFREY (UNITED STATES)

**FIXATION OF INTRA-ARTICULAR DISTAL FEMORAL FRACTURES**

Peter GIANNOUDIS (UNITED KINGDOM)

**IS THERE A CORRELATION BETWEEN THE DEGREE OF COMMINATION OF PATELLA TO THE CLINICAL OUTCOME?**

Phillip KOBBE (GERMANY)

**COMBINED MINIMALLY INVASIVE FIXATION AND ARTHROSCOPIC RECONSTRUCTION FOR FRACTURES OF THE TIBIAL PLATEAU**

Gershon VOLPIN (ISRAEL)

**ORIF OF FRACTURES OF TIBIAL PLATEAU**

Vilmos VECSEI (AUSTRIA)

**ORIF THROUGH POSTERIOR APPROACHES**

Peter BIBERTHALER (GERMANY)

**KNEE DISLOCATIONS – THE SAN ANTONIO APPROACH**  
Boris ZELLE (UNITED STATES)

**DISCUSSION**



**Friday, 9 September**  
**Michelangelo 2**

08:30 - 10:00

***Invited Lecture & Free Papers – Hip Arthroplasty I***

*Moderators:*

Vittorio BELLOTTI (ITALY), Francesco FALEZ (ITALY)

***Invited Speaker***

**THE ITALIAN CONTRIBUTION TO THE ART OF TOTAL HIP REPLACEMENT**  
Francesco FALEZ (ITALY)

**44306 A NEW METHOD OF DEFINED BONE DENSITY MEASUREMENT AFTER SHORT STEM HIP ARTHROPLASTY USING DUAL X-RAY ABSORPTIOMETRY (DXA)**

Markus FISCHER, Hans-Georg SIMANK (GERMANY)

**45115 CLINICAL AND RADIOGRAPHIC RESULTS OF SHORT STEMS FOR TOTAL HIP ARTHROPLASTY AT MID-TERM FOLLOW-UP**

Giandomenico LOGROSCINO, Fabrizio DONATI, Vincenzo CAMPANA, Carmine DE IESO, Giuliano Giorgio CERULLI (ITALY)

**45009 IS A COLLAR NECESSARY TO STABILISE AT LONG TERM A CEMENTLESS STEM IN TOTAL HIP ARTHROPLASTY?**

André FERREIRA, Thibaud DALIN, Thierry ASLANIAN, Jean PICAUD (FRANCE)

**43730 SURVIVAL OF A CEMENTLESS STEM WITH COLLAR IN TOTAL HIP ARTHROPLASTY (THA) IN PATIENTS UNDER 55 YEARS OLD AFTER 10 YEARS: PROSPECTIVE STUDY OF 49 IMPLANTS**

Jacques CATON, Jean Marc PUCH, Loys DESCAMPS, Guy DERHI (FRANCE)

**43960 CLINICAL AND RADIOGRAPHIC OUTCOMES OF 347 THAS WITH HA-COATED STEMS AFTER 25 TO 30 YEARS**

Laurent JACQUOT<sup>1</sup>, Alain MACHENAUD<sup>1</sup>, Jean-Pierre VIDALAIN<sup>1</sup>, Mo SAFFARINI<sup>2</sup>, ARTRO Institute<sup>1</sup>  
<sup>1</sup>(FRANCE), <sup>2</sup>(SWITZERLAND)

- 44174 PRIMARY TOTAL HIP ARTHROPLASTY WITH DUAL MOBILITY SOCKET TO PREVENT DISLOCATION: AN AVERAGE 24-YEAR FOLLOW-UP OF 240 HIP**  
Thomas NERI, Remi PHILIPPOT, Bertrand BOYER, Frederic FARIZON (FRANCE)
- 43728 DUAL MOBILITY CUP (DMC) IN PATIENTS UNDER 55 YEARS OLD AFTER 10 YEARS' FOLLOW-UP**  
Jean Marc PUCH, Loys DESCAMPS, Guy DERHI, Jacques CATON (FRANCE)
- 44981 PROJECTIONS OF HIP ARTHROPLASTY IN OECD COUNTRIES FROM 2015 TO 2050**  
Christof PABINGER (AUSTRIA)
- 43298 DIFFERENT BEARING SURFACES INFLUENCE MUSCLE FATTY DEGENERATION AND MUSCLE PROGENITORS DECREASE AFTER THA**  
Philippe HERNIGOU, Charles-Henri FLOUZAT LACHANINETTE (FRANCE)

10:00 - 10:30 *Break*

10:30 - 12:00 **Symposium – Periprosthetic Fractures of the Hip & Knee**

*Moderators:*

Jacques CATON (FRANCE), André FERREIRA (FRANCE)

**INTRODUCTION**

Jacques CATON (FRANCE)

**FRACTURES CLASSIFICATION**

Fatih KUCUKDURMAZ (TURKEY)

**FRACTURES AROUND THA – CURRENT TRENDS AND ALGORITHM**

Jean Louis PRUDHON (FRANCE)

**PARTICULAR TREATMENT IN FRACTURES B3**

Francesco FALEZ (ITALY)

**FRACTURES AROUND TKA – CURRENT TRENDS AND ALGORITHM**

Francesco BIGGI (ITALY)

**FRACTURES BETWEEN THA AND TKA – CURRENT TRENDS AND ALGORITHM**

Luis LOPEZ-DURAN STERN (SPAIN)

**SURGICAL TECHNIQUES AND INTRAOPERATIVE TIPS AND TRICKS**

Cyril MAUFFREY (UNITED STATES)

**CONCLUSIONS**

André FERREIRA (FRANCE)

**DISCUSSION**

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**

Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30

***ARTOF (Association for Rational Treatment of Fractures)***

***Symposium – Innovations in Hip Fracture Management***

*Moderators:*

Peter BIBERTHALER (GERMANY), Chlodwig KIRCHHOFF (GERMANY)

**EPIDEMIOLOGY AND CLASSIFICATION OF HIP FRACTURES**

John KEATING (UNITED KINGDOM)

**PRIMARY TOTAL HIP REPLACEMENT AFTER ACETABULUM FRACTURES:  
NEW DATA**

Marc HANSCHEN (GERMANY)

**PERIOPERATIVE MANAGEMENT (TIMING SURGERY, PHYSIOTHERAPY)**

James WADDELL (CANADA)

**FEMORAL NECK FRACTURES: THERAPEUTIC STRATEGIES**

Sam MOLYNEUX (UNITED KINGDOM)

**PETROCHANTERIC FRACTURES AND IMPLANT INNOVATIONS**

Peter BIBERTHALER (GERMANY)

**INTRODUCTION TO WORKSHOP**

Chlodwig KIRCHHOFF (GERMANY)

**WORKSHOP: INTERTAN NAIL**

15:30 - 16:00 *Break*

16:00 - 17:30 *Symposium – Hip Arthroscopy*

*Moderator:*

Vikas KHANDUJA (UNITED KINGDOM)

**HOW DO I WORK UP A YOUNG ADULT WITH HIP PAIN?**

Emmanuel AUDENAERT (BELGIUM)

**MANAGEMENT OF ACETABULAR LABRAL TEARS**

Hatem SAID (EGYPT)

## MANAGEMENT OF ARTICULAR CARTILAGE LESIONS

Oliver MARIN PENA (SPAIN)

## MANAGEMENT OF CAM FEMOROACETABULAR IMPINGEMENT

Vikas KHANDUJA (UNITED KINGDOM)

## MANAGEMENT OF PINCER FEMOROACETABULAR IMPINGEMENT

Ajay MALVYIA (UNITED KINGDOM)

## COMPLICATIONS FOLLOWING ARTHROSCOPIC SURGERY OF THE HIP

Vijay SHETTY (INDIA)

## REHABILITATION FOLLOWING ARTHROSCOPIC SURGERY OF THE HIP

Nicolas BONIN (FRANCE)

## OUTCOMES FOLLOWING ARTHROSCOPIC SURGERY OF THE HIP

Karen BRIGGS (UNITED STATES)

## DISCUSSION



**Friday, 9 September**

**Michelangelo 3**

08:30 - 10:00

### *Free Papers – Osteotomy & Unicompartmental Knee Arthroplasty*

*Moderators:*

Vincenzo SESSA (ITALY), Rene VERDONK (BELGIUM)

**45144 EFFICACY AND SAFETY OF ILIAC CREST ALLOGRAFT IN MEDIAL OPENING-WEDGE HIGH TIBIAL OSTEOTOMY COMPARED TO ILIAC CREST AUTOGRAFT: A RANDOMISED CONTROLLED CLINICAL TRIAL OF 5-YEAR FOLLOW-UP**

Babak HAGHPANAH, Mohammad Hasan KASEB, S.M. Javad MORTAZAVI (IRAN)

**43174 THE NOVEL COMBINATION OF ARTHROSCOPIC MEDIAL RELEASE AND OPEN WEDGE HIGH TIBIAL OSTEOTOMY WAS GREATLY SUCCESSFUL FOR VARUS KNEES WITH MEDIAL COMPARTMENT OA**

Mohamed ALI, Mohamed ELSHAFIE, Assem NOUR EL-DEEN, Ahmed NADY, Alaa ZEINHOM (EGYPT)

- 44996**    **CARTILAGE REGENERATION IN ICRS GRADE 3 CARTILAGE LESION AFTER HIGH TIBIAL OSTEOTOMY: SECOND LOOK ARTHROSCOPIC EVALUATION**  
Sang Jin PARK, Jae Hoon CHUNG (SOUTH KOREA)
- 42927**    **COMBINED BIPLANAR HIGH TIBIAL OSTEOTOMY AND ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN MEDIAL OSTEOARTHRITIS OF UNSTABLE VARUS KNEES**  
Mitsuaki KUBOTA, Ryuichi OHNO, Yu SUGAWARA, Tokuro NARIMIYA, Taisuke SATO, Koju HAYASHI, Shin FUKUSATO, Kazuo KANEKO (JAPAN)
- 44725**    **HIGH TIBIAL OSTEOTOMY VERSUS OXFORD UNICONDYLAR KNEE REPLACEMENT (COMPARATIVE STUDY)**  
Walaa ELNAHAS (UNITED KINGDOM)
- 43832**    **THE INFLUENCE OF MEDIAL TIBIAL JOINT LINE ELEVATION ON POST-OPERATIVE KNEE RANGE OF MOTION IN UNICOMPARTMENTAL KNEE ARTHROPLASTY**  
Koji TAKAYAMA, Tomoyuki MATSUMOTO, Hirotsugu MURATSU, Kazunari ISHIDA, Nao SHIBANUMA, Ryosuke KURODA, Masahiro KUROSACA (JAPAN)
- 44774**    **MEDIAL UNICOMPARTMENTAL KNEE ARTHROPLASTY USING PATIENT-SPECIFIC INSTRUMENTATION – ACCURACY OF PREOPERATIVE PLANNING, TIME SAVING AND COST EFFICIENCY**  
Gesine SEEGER, Kristina KOLBOW, Uwe MAUS, Alexander KLUGE, Djordje LAZOVIC (GERMANY)
- 44206**    **UNICOMPARTMENTAL KNEE ARTHROPLASTY VERSUS TOTAL KNEE IN THE SAME PATIENT: A COMPARATIVE STUDY**  
Vincenzo SESSA, Umberto CELENTANO (ITALY)
- 43704**    **EFFECTS OF MINOR VARUS LIMB ALIGNMENT IN MEDIAL UKA**  
Michele VASSO, Chiara DEL REGNO, Carlo PERISANO, Alfredo SCHIAVONE PANNI (ITALY)
- 45639**    **SURVIVAL ANALYSIS OF OXFORD UNICOMPARTMENTAL KNEE REPLACEMENT**  
Amr ELKHOLY, Taher ABDELRAHMAN, Kam SINGH, Richard DODDS (UNITED KINGDOM)
- 45170**    **COMBINED ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION AND UNICOMPARTMENTAL KNEE REPLACEMENT: A SYSTEMATIC REVIEW**  
Andrea VOLPIN<sup>1</sup>, Sunil KINI<sup>2</sup>, Duncan MEUFFELS<sup>3</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(INDIA), <sup>3</sup>(NETHERLANDS)

10:00 - 10:30    *Break*

*Moderators:*

Chitranjan RANAWAT (UNITED STATES), Bernd STOECKL (AUSTRIA)

*Invited Speaker***RESULTS OF TOTAL FEMUR IMPLANTATIONS IN FINAL REVISION SURGERY OF KNEE AND HIP**

Bernd STOECKL (AUSTRIA)

**43882 REVISION RATES AFTER KNEE REPLACEMENT: CUMULATIVE RESULTS FROM WORLDWIDE CLINICAL STUDIES VERSUS JOINT REGISTERS**

Christof PABINGER (AUSTRIA)

**43724 SEVERE METALLOSIS-RELATED OSTEOLYSIS AS A CAUSE OF FAILURE AFTER TOTAL KNEE REPLACEMENT**

Khaled Hamed SALEM, Norbert LINDNER (GERMANY)

**43336 TANTALUM CONES FOR SEVERE BONE LOSS IN REVISION TOTAL KNEE ARTHROPLASTY – A MINIMUM OF 5-YEAR FOLLOW-UP**Valerio MASTROIANNI<sup>1</sup>, Ivan DE MARTINO<sup>2</sup>, Sculco PETER<sup>2</sup>, Elvira PORCO<sup>1</sup>, Olimpio GALASSO<sup>1</sup>, Giorgio GASPARINI<sup>1</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(UNITED STATES)**43855 IS THERE STILL A ROLE FOR I&D AND LINER EXCHANGE IN ACUTE PERIPROSTHETIC JOINT INFECTION IN TOTAL KNEE ARTHROPLASTY?**

Zachary POST, Andres DUQUE, Rex LUTZ, Sergio PULIDO, Fabio OROZCO, Alvin ONG (UNITED STATES)

**45336 WHAT IS THE BEST MANAGEMENT SOLUTION OF INFECTED TOTAL KNEE ARTHROPLASTY?**

Alexander BENKO, Oleg KEZLYA, Michail GERASIMENKO, Andrew KOROLKO (BELARUS)

**44752 ERTAPENEM ARTICULATING SPACER FOR THE TREATMENT OF POLYMICROBIAL TOTAL KNEE ARTHROPLASTY INFECTION**

Dragan RADOICIC, Danica RADOICIC, Milomir MILANOVIC, Srdjan STARCEVIC (SERBIA)

**44707 “CEMENT-PEDESTAL” SPACER TECHNIQUE VERSUS CONVENTIONAL SPACER TECHNIQUE IN 2-STAGE REVISION KNEE ARTHROPLASTY – OUTCOMES AND COMPLICATIONS**

Christopher MITCHELL, Caterina ASSIS, Ahmed MAHMOUD, Farhad IRANPOUR, Robin STRACHAN, Ali AL Taweel (UNITED KINGDOM)

**43414 IS A SINGLE STAGE REVISION SAFE FOR INFECTED TOTAL KNEE ARTHROPLASTY? A SYSTEMATIC REVIEW**

Harsh SINGH, Raju VAISHYA, Vipul VIJAY, Amit AGARWAL (INDIA)

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**  
Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 **SICOT GENERAL ASSEMBLY**

14:00 - 15:30 *Symposium – Total Ankle Replacement*

*Moderator:*  
Henry Siu Fai YIP (HONG KONG)

**ANKLE FUSION VS. ANKLE ARTHROPLASTY**  
Wolfgang KLAUSER (GERMANY)

**INDICATIONS, INCISIONS AND TIPS**  
Michale STEPHENS (IRELAND)

**TAR – CAUSES OF FAILURE AND REVISION ANKLE ARTHROPLASTY**  
Hajo THERMANN (GERMANY)

**TOTAL ANKLE REPLACEMENT – 20 YEARS OF EXPERIENCE AND FUTURE CONSIDERATION**  
Beat HINTERMANN (SWITZERLAND)

**CASE DISCUSSIONS**

**QUESTIONS**

15:30 - 16:00 *Break*

16:00 - 17:30 *Invited Lecture & Free Papers – Foot & Ankle Trauma*

*Moderators:*  
Dario PERUGIA (ITALY), Enrico VAIENTI (ITALY)

*Invited Speaker* **UPDATES ON FOOT AND ANKLE SURGERY IN ITALY**  
Sandro GIANNINI (ITALY)

**42975 REPAIR OF THE DELTOID LIGAMENT COMPLEX RUPTURE ASSOCIATED WITH ANKLE FRACTURES**  
Mingzhu ZHANG, Guangrong YU (CHINA)

- 42920 NEW INNOVATIVE INTRAOPERATIVE TEST FOR SYNDESMOSIS INSTABILITY DETECTION IN SUPINATION-EXTERNAL ROTATION (SER) INJURIES**  
Nayla GOSSELIN PAPADOPOULOS, Yves LAFLAMME, Jérémie MÉNARD, Stéphane LEDUC, Dominique ROULEAU, Jonah DAVIES, Marie-Lyne NAULT (CANADA)
- 44612 ARTHROSCOPIC FIXATION WITH CORTICAL BONE PEGS FOR OSTEOCHONDRAL LESIONS OF THE TALUS**  
Ichiro HIGASHIYAMA, Yasushi SHINOHARA, Tomohiro MATSUI, Tsukasa KUMAI, Yasuhito TANAKA (JAPAN)
- 44465 ‘TUNING FORK LINES’ – A NEW MEASURE TO DETERMINE TALAR SHIFT IN ANKLE FRACTURES**  
Sanjay SONANIS, Sanjay KUMAR, Nitin DESHMUKH (UNITED KINGDOM)
- 45521 DO CUSTOM INTRAOPERATIVE GUIDES IMPROVE TOTAL ANKLE ARTHROPLASTY? A COMPARISON OF PATIENT SPECIFIC AND EXTRAMEDULLARY INSTRUMENTATION**  
Karan MALHOTRA, Najefi ALI, Andy GOLDBERG (UNITED KINGDOM)
- 43279 CT CLASSIFICATION OF POSTERIOR MALLEOLUS FRACTURES**  
Michal TUCEK, Jan BARTONICEK, Ondrej NANKA (CZECH REPUBLIC)
- 44132 SHAPE OF THE DISTAL TIBIOFIBULAR SYNDESMOSIS AND RISK OF REPEATED ANKLE SPRAIN: A CT-BASED STUDY**  
Dasheng LIN (CHINA)
- 44771 SYNDESMOTIC INTERNAL BRACE FOR ANATOMIC DISTAL TIBIOFIBULAR LIGAMENT AUGMENTATION**  
Markus REGAUER, Mirjam LANGE, Sebastian BAUMBACH, Wolfgang BÖCKER, Hans POLZER (GERMANY)



**Friday, 9 September**

**Caravaggio 1-2**

08:30 - 10:00

***Invited Lecture & Free Papers – Spinal Infection & Trauma***

*Moderators:*

Stefano BORIANI (ITALY), Fred Mathew Toboso OTSYENO (KENYA)

***Invited Speaker***

**THE ITALIAN CONTRIBUTION TO THE PROGRESSES OF SPINE SURGERY IN THE LAST 80 YEARS**

Stefano BORIANI (ITALY)

- 45061 COMBINED POSTEROANTERIOR FUSION WITH SHORT-SEGMENT INSTRUMENTATION VERSUS SINGLE POSTERIOR APPROACH INTERBODY FUSION WITH LONG-SEGMENT INSTRUMENTATION FOR THORACOLUMBAR FRACTURE-DISLOCATION: A PROSPECTIVE, RANDOMISED, COMPARATIVE CLINICAL REPORT**  
Yuan-Ting ZHAO, Dingjun HAO, Xiaodong WANG, Tuan-Jing LIU, Hua GUO (CHINA)
- 43326 COMPARISON OF NEUROLOGICAL IMPROVEMENTS IN ACUTE TRAUMATIC CENTRAL CORD SYNDROME FOLLOWING SURGICAL AND NON-SURGICAL INTERVENTIONS**  
Karthikeyan MAHARAJAN, Kumar NARESH (SINGAPORE)
- 45334 EFFECTIVENESS OF INTRAOPERATIVE ULTRASONOGRAPHY AS A NEW NAVIGATION TOOL FOR ACCURATE CERVICAL ANTERIOR CORPECTOMY PROCEDURE**  
Kei MIYAMOTO, Yuichi KONDO, Akira HIOKI, Kazunari FUSHIMI, Takahiro MASUDA, Haruhiko AKIYAMA, Katsuji SHIMIZU (JAPAN)
- 43275 POSTEROLATERAL DECOMPRESSION AND RECONSTRUCTION OF THORACOLUMBAR BURST FRACTURES: A CASE SERIES FROM JPN APEX TRAUMA CENTRE, A LEVEL ONE TRAUMA CENTRE, AIIMS, NEW DELHI**  
Kamran FAROOQUE, Vijay SHARMA (INDIA)
- 45308 TUBERCULOSIS OF THE SPINE: OUTCOME IN A NATIONAL REFERRAL AND TEACHING HOSPITAL**  
Fred Mathew Toboso OTSYENO, Kirsteen Ondigo AWORI, Peter Gichuru MWANGI, John Ernest Oluoch ATING'A (KENYA)
- 43510 DIFFUSION TENSOR IMAGING OBSERVATIONS IN POTT'S SPINE**  
Anil Kumar JAIN, Nikhil JAIN, Kantilal CHAKRABORTI, Ish Kumar DHAMMI (INDIA)
- 44272 SELECTION OF SURGICAL TREATMENT APPROACHES FOR CERVICOTHORACIC SPINAL TUBERCULOSIS: 10-YEAR CASES REVIEWED**  
Hua GUO, Biao WANG, Dingjun HAO, Xiaodong WANG (CHINA)
- 43170 DOES THE USE OF INTRAWOUND VANCOMYCIN DECREASE THE RISK OF POSTOPERATIVE INFECTION AFTER ELECTIVE SPINE SURGERY?**  
Babak MIRZASHAHI, Maziar NAFISI, S.M. Javad MORTAZAVI, Mahmoud FARZAN (IRAN)
- 43388 POSTERIOR ONLY APPROACH FOR LUMBAR PYOGENIC SPONDYLITIS WITH SHORT INSTRUMENTATION AND PROLONGED SUCTION DRAINAGE**  
Yoon-Won HA, Yong-Min KIM, Seung-Myung CHOI, Dong-Hwan KIM, Hyeon-Jun EUN, Hyung-Ki LEE, Sang-Woo KANG, Jae-Young YANG, Do-Kyoon KIM (SOUTH KOREA)

10:00 - 10:30 *Break*

10:30 - 12:00 ***Symposium – Spine: Master Lectures on ‘State of Art’ Techniques***

*Moderators:*

Evalina BURGER (UNITED STATES), John DORMANS (UNITED STATES)

**SAGITTAL BALANCE – CURRENT UNDERSTANDING**

Claudio LAMARTINA (ITALY)

**MANAGEMENT OF VERTEBRAL TUMOURS**

Stefano BORIANI (ITALY)

**SPINAL INFECTIONS**

Shanmuganathan RAJASEKARAN (INDIA)

**CERVICAL DISC ARTHROPLASTY**

Jong-Beom PARK (SOUTH KOREA)

**ADOLESCENT IDIOPATHIC SCOLIOSIS**

Oheneba BOACHIE-ADJEI (GHANA)

12:00 - 12:30 ***Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)***

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**

Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Industry-Sponsored Symposium*

14:00 - 15:30 ***AOAF (AO Alliance Foundation) Symposium – Broken Bones Don't Mean Broken Lives - Improving Fracture Care in LMICs***

*Moderator:*

Jaime QUINTERO (COLOMBIA)

**LAYING THE SEED TO SOW: FROM AO FOUNDATION SOCIOECONOMIC COMMITTEE TO AO ALLIANCE**

Jaime QUINTERO (COLOMBIA)

**SAFE, TIMELY AND EFFECTIVE FRACTURE CARE IN LMICs: WHAT'S THE PROBLEM?**

Paul DEMMER (SOUTH AFRICA)

**FRACTURE CARE EDUCATION IN FRENCH-SPEAKING AFRICA: MAKING A DIFFERENCE**

Florent Anicet LEKINA (CAMEROON)

**RETURNING HOME AFTER FELLOWSHIP TRAINING IN PELVIC AND ACETABULAR SURGERY: THE CHALLENGES FACED**

Samuel HAILU (ETHIOPIA)

**TACKLING PAEDIATRIC FRACTURES: PAEDIATRIC FRACTURE SOLUTIONS FOR AFRICA**

Michael SEGBEFIA (CANADA)

**BRIDGE THE GAP PROJECT WITH SICOT: WHAT DOES IT MEAN?**

Wilson LI (HONG KONG)

**QUESTIONS & ANSWERS**

**CLOSING REMARKS**

Jaime QUINTERO (COLOMBIA)

15:30 - 16:00 *Break*

16:00 - 17:30

***WOC (World Orthopaedic Concern) Instructional Course***  
**– Musculoskeletal Pathology with a Paucity of Modern Surgical Equipment**

*Moderator:*

John DORMANS (UNITED STATES)

**OSTEOGENESIS – EMBRYO TO FRACTURE**

Mike LAURENCE (UNITED KINGDOM)

**MUSCULOSKELETAL SERVICES IN EAST AFRICA**

James KIGERA (KENYA)

**INJURY TO THE CHILD’S ARM – WRIST TO ELBOW**

Fergal MONSELL (UNITED KINGDOM)

**PROBLEMS CONFRONTING THE YOUNG SURGEON WITH LIMITED RESOURCES**

Vijay KHARIWAL (INDIA)

**PLATING VS. NAILING IN LIMB FRACTURES: CHANGES IN IMPLANT DESIGN IN RELATION TO SURGICAL INFRASTRUCTURE**

Arindam BANERJEE (INDIA)

**GLOBAL ORTHOPAEDICS AND BURDEN OF MUSCULOSKELETAL DISEASES**

Wilson LI (HONG KONG)



## Friday, 9 September

### Caravaggio 3-4

08:30 - 10:00

#### *Clubfoot Congress* – Basic Science Research

##### **OPENING STATEMENT**

Matthew DOBBS (UNITED STATES)

*Moderator:*

Alice CHU (UNITED STATES)

**44624 REACHING OUT TO MORE CHILDREN FOR CLUBFOOT TREATMENT: THE PUBLIC HEALTH APPROACH**

Mathew VARGHESE, Santosh GEORGE (INDIA)

**43215 EARLY RADIOGRAPHIC PARAMETERS PREDICTIVE OF SURGERY-REQUIRED RELAPSE IN IDIOPATHIC CLUBFOOT TREATED USING THE PONSETI METHOD**

Kenichi MISHIMA, Hiroshi KITOH, Masaki MATSUSHITA, Hiroshi SUGIURA, Sachi HASEGAWA, Yoshihiro NISHIDA, Naoki ISHIGURO (JAPAN)

**45481 WHO LOOKS FOR CLUBFOOT INFORMATION AND WHY? 10 YEARS OF A TECHNICAL WEBSITE: USER PROFILE**

Monica NOGUEIRA, Osias FORTE (BRAZIL)

**43717 COST PER CHILD FOR MIRACLEFEET IN THE PHILIPPINES FOR A PERIOD OF 24 MONTHS**

Ryan CALAUOR (UNITED STATES)

**43571 PERFUSION IS NOT MEASURABLY DECREASED IN IDIOPATHIC CLUBFOOT**

Alice CHU, Lynn FORRESTER, Rachel SHAKKED, Wallace LEHMAN, Norman OTSUKA (UNITED STATES)

##### **DISCUSSION**

*Moderator:*

Julyn AGUILAR (PHILIPPINES)

**45062 THE PIRANI AND DIMEGLIO SCORING SYSTEMS FOR CLUBFOOT: A COMPARATIVE STUDY**

Julyn AGUILAR, Jonathan GASPAS (PHILIPPINES)

**44250 SIGNIFICANCE OF PIRANI SCORE AT ONSET OF BRACING IN A CLUBFOOT**

Mansoor KHAN, Mohannad Amin CHINOY, Syed Kamran AHMED, Fayez JAVED (PAKISTAN)

**43932 OBJECTIVE MEASUREMENTS OF BRACE ADHERENCE IN A COHORT OF IDIOPATHIC CLUBFOOT PATIENTS**

Lewis ZIONTS, Sophia SANGIORGIO, Nathan HO, Rebecca MORGAN, Edward EBRAMZADEH (UNITED STATES)

**44463 SOFT-TISSUE STRUCTURES (LIGAMENTS AND JOINT CAPSULES) IN RESISTANT CLUBFOOT: A MORPHOLOGIC STUDY**

Nikolai RUMIANTCEV, Igor KRUGLOV (RUSSIA)

**43738 DELETIONS OF 5' HOXC GENES ARE ASSOCIATED WITH LOWER EXTREMITY MALFORMATIONS, INCLUDING CLUBFOOT AND VERTICAL TALUS**

Matthew DOBBS (UNITED STATES)

**DISCUSSION**

10:00 - 10:30 *Break*

10:30 - 12:00 *Clubfoot Congress – Surgical Management of Clubfoot*

*Moderator:*

Fabio VERDONI (ITALY)

**45104 DIFFERENTIAL DISTRACTION WITH JOSHI'S EXTERNAL STABILISATION SYSTEM (JESS) IN THE MANAGEMENT OF RESISTANT CLUBFEET IN CHILDREN**

Chittaranjan SAHU, Stalin CHOWDARY (INDIA)

**44422 USE OF SYSTEM APPROACH IN SURGICAL TREATMENT OF EQUINES DEFORMITY IN RECURRENT CLUBFEET WITH ASEPTIC NECROSIS OF TALUS**

Viachaslau BRADKO, Aleh SAKALOUSKI, Heorhi BRADKO (BELARUS)

**43197 CLINICAL OUTCOME OF MANAGEMENT OF ROCKER BOTTOM DEFORMITY IN CLUBFOOT**

Gaurav GARG (INDIA)

**45085 NEW TREATMENT IN ARTHROGRYPOSIS BY METHOD OF ALIMKHANOVA R.S.**

Roza ALIMKHANOVA (KAZAKHSTAN)

**43942 OUR EXPERIENCE IN EXTERNAL FIXATION IN RECURRENT CLUBFOOT**

Fabio VERDONI, Raffaele Dario D'AMATO, Silvia RICHETTA, Leopoldo PEDRETTI, Antonio MEMEO (ITALY)

**DISCUSSION**

*Moderator:*  
Max VAVILOV (RUSSIA)

- 45685 ILIZAROV DISTRACTION HISTOGENESIS IN RELAPSED CLUBFOOT**  
Mohamed FADEL, Mohamed AHMED, Hashem SHAWKY, Khalid ELKORANY, Abdel Aziz MOHAMED, Belal KHALIL (EGYPT)
- 42570 IS ATYPICAL CLUBFOOT IATROGENIC AND CAN IT BE CORRECTED BY PONSETI'S METHOD?**  
Sunny AGARWAL, Paresh BANG, Mathew VARGHESE, Abhishek KAUSHIK (INDIA)
- 43925 MANAGEMENT OF CLUBFOOT BY PONSETI TECHNIQUE – OUR EXPERIENCE**  
Sanjay KESHKAR, Nirmal DEY (INDIA)
- 44384 THE LEARNING CURVE IN THE PONSETI METHOD: EVOLUTION IN 15 YEARS**  
Tatiana GUERSCHMAN, Monica NOGUEIRA (BRAZIL)
- 42604 IS CASTING EFFECTIVE FOR RECURRENCE FOLLOWING PONSETI CLUBFOOT TREATMENT?**  
James G. WRIGHT, Veroniek Muriël VAN PRAAG, Rosanna YANKANAH, Barbara J. HARVEY, Gurpreet LAKHANPAL, Magdalena LYSENKO, Alia KARMALI, Kate GARGAN (CANADA)
- 43256 DISTRIBUTION OF THE PONSETI METHOD IN RUSSIA**  
Max VAVILOV, Valeriy BLANDINSKY, Ilia GROMOV (RUSSIA)

#### **DISCUSSION**

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**  
Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Industry-Sponsored Symposium*

14:00 - 15:30 *Clubfoot Congress – Ponseti Method*

*Moderator:*  
Gaetano PAGNOTTA (ITALY)

- 43780 TREATMENT OF IDIOPATHIC CONGENITAL CLUBFOOT IN ITALY: MULTICENTRE STUDY**  
Gaetano PAGNOTTA, Pasquale FARSETTI, Ignazio D'ADDETTA, Sergio MONFORTE, Daniela DIBELLO, Ernesto IPPOLITO (ITALY)
- 44975 POTENTIAL MECHANISM OF MANIPULATION, CASTING AND BRACE WEARING IN PONSETI METHOD FOR PROGRESSIVE DEFORMITY CORRECTION – A PRELIMINARY STUDY**  
Dahang ZHAO, Li ZHAO (CHINA)
- 44875 THE AFRICA CLUBFOOT TRAINING PROJECT – STRENGTHENING TRAINING CAPACITY FOR THE PONSETI METHOD**  
Linda HANSEN<sup>1</sup>, Scott REICHENBACH<sup>1</sup>, Stephen MANNION<sup>2</sup>, Rosalind OWEN<sup>2</sup>, Christopher LAVY<sup>2</sup>  
<sup>1</sup>(ZAMBIA), <sup>2</sup>(UNITED KINGDOM)
- 45492 A PROSPECTIVE RANDOMISED STUDY OF PONSETI CASTING BY A PHYSIOTHERAPIST AND A PAEDIATRIC ORTHOPAEDIC SURGEON**  
Pouya AKHBARI, Matthew JAGGARD, Vicky HILLIER, Om LAHOTI (UNITED KINGDOM)
- 45420 DESCRIPTIVE EPIDEMIOLOGY OF TALIPES EQUINOVARUS IN SOUTHERN NIGERIA**  
Joseph ASUQUO, Innocent ABANG, Chukwuemeka ANISI, Jude AIGBOMIAN, Onyebuchi OSAKWE, Ngim NGIM (NIGERIA)
- DISCUSSION**
- Moderator:*  
Alaric AROOJIS (INDIA)
- 45161 PONSETI METHOD IN CHILDREN AFTER WALKING AGE: A SYSTEMATIC REVIEW OF THE LITERATURE**  
Victoria ALLENDE NORES, Julieta PORTA, Belen LOPEZ VILLAGRA, Julio Javier MASQUIJO (ARGENTINA)
- 44684 MID-TERM OUTCOME IN IDIOPATHIC CLUBFOOT TREATED BY PONSETI METHOD USING SOFT CAST**  
Chien Chung KUO, Ken Nan KUO, Horng Chaung HSU (TAIWAN)
- 44632 RESULTS OF THE PONSETI METHOD OF CLUBFOOT TREATMENT IN OLDER CHILDREN (>1 YEAR OF AGE)**  
Alaric AROOJIS, Avi SHAH, Rujuta MEHTA (INDIA)
- 43791 THE PONSETI METHOD FOR THE TREATMENT OF CONGENITAL CLUBFOOT: THE PARENTAL OPINION**  
Daniela DIBELLO, Valentina DI CARLO, Marco CARBONE (ITALY)

**43732 PONSSETI TREATMENT OF RIGID RESIDUAL DEFORMITIES IN CONGENITAL CLUBFOOT AFTER WALKING AGE**

Massimiliano DRAGONI, Pierluigi MAGLIONE, Pasquale FARSETTI, Giuseppe VENA, Diego BELLINI, Ernesto IPPOLITO (ITALY)

**DISCUSSION**

**CLOSING STATEMENT**

Matthew DOBBS (UNITED STATES)

15:30 - 16:00 *Break*

16:00 - 17:30 *Symposium – Update in Paediatric Orthopaedics*

*Moderators:*

Patricia FUCS (BRAZIL), William MACKENZIE (UNITED STATES)

**UPDATE IN PERTHES' DISEASE – THE ROLE OF SHELF PROCEDURE IN THE MANAGEMENT OF PERTHES DISEASE**

Reggie HAMDY (CANADA)

**UPDATE IN PERTHES' DISEASE – HIP DISTRACTION**

Gamal HOSNY (EGYPT)

**QUESTIONS**

**PROXIMAL FEMORAL AND NECK FRACTURE IN CHILDREN WITH HEALTHY AND PATHOLOGICAL BONE – CONTROVERSIES OF TREATMENT**

Darko ANTICEVIC (CROATIA)

**SURGICAL METHODS FOR FEMORAL DEFORMITY CORRECTION IN FIBROUS DYSPLASIA**

Hae-Ryong SONG (SOUTH KOREA)

**EXTERNAL FIXATOR IN LOWER LIMB DEFORMITIES**

Silvio BOERO (ITALY)

**SUPRACONDYLAR HUMERAL FRACTURES**

Vincenzo GUZZANTI, Francesco FALCIGLIA (ITALY)

**QUESTIONS**

**CORRECTION OF ROTATIONAL DEFORMITY OF THE TIBIA IN CEREBRAL PALSY BY PERCUTANEOUS SUPRAMALLEOLAR OSTEOTOMY**

Antonio ANDREACCHIO (ITALY)

**UPDATE IN CP HIPS**

Patricia FUCS (BRAZIL)

**THE CAVUS FOOT IN CMT**

William MACKENZIE (UNITED STATES)



## Friday, 9 September

### Caravaggio 5-6

08:30 - 10:00 **Symposium – Fragility Fractures**

*Moderators:*

Phillip KOBBE (GERMANY), James WADDELL (CANADA)

#### **PATHOGENESIS OF FRAGILITY FRACTURES**

J. DHEENADHAYALAN (INDIA)

#### **MINIMALLY INVASIVE SURGERY FOR FRAGILITY FRACTURES OF THE SHOULDER**

Gershon VOLPIN (ISRAEL)

#### **MINIMALLY INVASIVE SURGERY VS. ORIF IN FRAGILITY FRACTURES OF THE DISTAL RADIUS**

Khaled EMARA (EGYPT)

#### **DHS VS. PROXIMAL FEMORAL NAILING IN FRAGILITY FRACTURES OF THE FEMORAL NECK**

James WADDELL (CANADA)

#### **MINIMALLY INVASIVE PERCUTANEOUS FIXATION OF THE PELVIS**

Boris ZELLE (UNITED STATES)

#### **FRAGILITY FRACTURES OF THE SPINE**

Phillip KOBBE (GERMANY)

#### **DEVELOPMENT OF A GERIATRIC TRAUMA CENTRE**

Hans-Christoph PAPE (GERMANY)

#### **DISCUSSION**

10:00 - 10:30 **Break**

10:30 - 12:00 **Free Papers – Trauma: Miscellaneous**

*Moderators:*

Jamal ASHRAF (INDIA), Hans-Christoph PAPE (GERMANY)

#### **43263 VENOUS THROMBOEMBOLISM IN THE TRAUMA AND ORTHOPAEDIC POPULATION**

Parag RAVAL, John BLACKWELL (UNITED KINGDOM)

- 45606 GERIATRIC TRAUMA: DOES THE PARTNERSHIP BETWEEN TRAUMA SURGEON AND GERIATRIC SPECIALIST IMPROVE THE QUALITY IN THE TREATMENT OF MULTIMORBID OLDER PATIENTS?**  
Gerhard HEINRICH, Andreas PAECH, Andreas UNGER, Maria THOMAS (GERMANY)
- 45468 FULMINANT INFECTION COMPLICATING AN OPERATED OPEN FEMUR FRACTURE – A CASE OF NECROTISING MUCORMYCOSIS**  
Vishesh KHANNA, Sunny AGARWAL, Mathew VARGHESE (INDIA)
- 44648 STUDY OF TREATMENT OF INFECTED NON-UNION OF LONG BONES (FEMUR AND TIBIA) WITH LIMB RECONSTRUCTION SYSTEM (LRS)**  
Ankit MADHARIA, Divya MADHARIA, Satya Ranjan PATRA, Anmol ARORA, Arun MADHARIA (INDIA)
- 45658 POST-TRAUMATIC BONE DEFECTS TREATED WITH INDUCED BIOMEMBRANE TECHNIQUE – A CASE SERIES**  
Suryakant SINGH, Unmesh SAHOO, Hitesh DAWAR, Deepak RAINA (INDIA)
- 44548 THE USE OF INTRAOPERATIVE LASER ANGIOGRAPHY TO PREDICT SKIN BRIDGE NECROSIS IN A MANGLED EXTREMITY**  
Vilas SALDANHA, Nathan TIEDEKEN (UNITED STATES)
- 45504 RIB FRACTURE FIXATION IN A MAJOR TRAUMA CENTRE: OUTCOMES FOLLOWING FIXATION WITH THE MATRIXRIB CONTOURED PLATE SYSTEM**  
Samuel WALTERS, Rebecca RUSSELL, Tanvir KHAN, Jessica NIGHTINGALE, Daren FORWARD, Christopher MORAN, Ben OLLIVERE (UNITED KINGDOM)
- 44720 EARLY FRACTURE FIXATION IN OPEN KNEE DISLOCATION**  
Ashith RAO, Tushar SINGHI, Nikhil SHETTY, Rohan GALA (INDIA)
- 43906 CAN A SMALL DISTRICT HOSPITAL ADHERE TO NICE GUIDELINES REGARDING TOTAL HIP REPLACEMENT FOR FRACTURED NECK OF FEMUR? A 2-YEAR RETROSPECTIVE ANALYSIS**  
Christine SCARSBROOK, Adelle FISHLOCK, Robert MARSH (UNITED KINGDOM)
- 43694 DERMOTAXIS V/S LOOP SUTURE TECHNIQUE FOR CLOSURE OF FASCIOTOMY WOUNDS: A STUDY OF 50 CASES**  
Naveen MITTAL, Robin BOHAT (INDIA)
- 42772 VIRTUAL FRACTURE CLINICS: HELPING TO MEET CLINICAL TARGETS**  
Hamish MACDONALD, Hammad PARWAIZ, Greg PICKERING, Barnaby SHERIDAN, Colin OGIIVIE (UNITED KINGDOM)

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**

Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Industry-Sponsored Symposium*

14:00 - 15:30 ***AORecon Symposium – Controversies in Proximal Humeral Fracture Treatment***

*Moderators:*

Pierre HOFFMEYER (SWITZERLAND), Stefaan NIJS (BELGIUM)

**INTRODUCTION TO AO RECONSTRUCTION**

Pierre HOFFMEYER (SWITZERLAND)

**CONSERVATIVE TREATMENT OR OSTEOSYNTHESIS – AN ACTIVE CHOICE**

Pierre HOFFMEYER (SWITZERLAND)

**HEMIARTHROPLASTY**

Martin JAEGER (GERMANY)

**REVERSED POLARITY PROSTHESIS**

Stefaan NIJS (BELGIUM)

**ARTHROPLASTY FOR FAILED TREATMENT**

Alexandre LAEDERMANN (SWITZERLAND)

**INTERACTIVE DISCUSSION**

15:30 - 16:00 *Break*

16:00 - 17:30 ***DMI'S (Dual Mobility International Society) Symposium – Dual Mobility in Hip Arthroplasty***

*Moderator:*

Jacques CATON (FRANCE)

**Introduction**

**DMI'S PRESENTATION**

Jean Louis PRUDHON (FRANCE)

**DUAL MOBILITY CONCEPT AND HISTORY**

Daniel NOYER (FRANCE)

**DISLOCATION RATE AND EVOLUTION IN THE EMILIA ROMANIA  
REGISTRY**

Tigani BOLOGNA (ITALY)

**DUAL MOBILITY: WHAT HAS BEEN PUBLISHED IN THE LAST 10 YEARS?**

Emilio ROMANINI (ITALY)

**Dual Mobility Over The World**

**EXPERIENCE IN THE MIDDLE EAST**

Chahine ASSI (LEBANON)

**EXPERIENCE IN SOUTH AMERICA**

Ricardo NEGREIROS VICENTE (BRAZIL)

**EXPERIENCE IN THE UNITED STATES**

Cyril MAUFFREY (UNITED STATES)

**EXPERIENCE IN DEEP SOUTH ALGERIA**

Ait El Hadj LYES (ALGERIA)

**Round Table: Dual Mobility – The Best Option**

*Moderators:*

Frederic FARIZON (FRANCE), André FERREIRA (FRANCE)

**HIP FRACTURE**

Yasuhiro HOMMA (JAPAN)

**RECURRENT INSTABILITY**

Francesco FALEZ (ITALY)

**OBESE PATIENT**

Philippe HERNIGOU (FRANCE)

**HIGH RISK PATIENTS**

Vincenzo SALINI (ITALY)

**TUMOUR**

Carmine ZOCCALI (ITALY)

**Conclusion**

**DUAL MOBILITY WORLDWIDE DATABASE**

Jean Alain EPINETTE (FRANCE)

**DISCUSSION**

Jacques CATON (FRANCE)

**CONCLUSION**

Jean Louis PRUDHON (FRANCE)



## Friday, 9 September

### Caravaggio 7-8

08:30 - 10:00

#### **ICRS (International Cartilage Repair Society)/SICOT Symposium – Osteochondral Defects: The Great Debate - Part I**

*Moderators:*

Stephen ABELOW (UNITED STATES), Pedro GUILLEN (SPAIN), Lars PETERSON (SWEDEN), Valerio SCIARRETTA (ITALY), Rene VERDONK (BELGIUM)

#### **OSTEOTOMIES ABOUT THE KNEE**

Giancarlo PUDDU (ITALY)

#### **MICROFRACTURE: THE VAIL EXPERIENCE – THE SCIENCE, TECHNIQUE AND RESULTS**

William G. RODKEY (UNITED STATES)

#### **THE STONE CLINIC TECHNIQUE**

Kevin STONE (UNITED STATES)

#### **AMIC WITH BONE MARROW CONCENTRATE AND/OR STEM CELLS**

Valerio SCIARRETTA (ITALY)

#### **BMAC (BONE MARROW ASPIRATE) AND NEWER TECHNOLOGIES**

Alberto GOBBI (ITALY)

#### **OSTEOCHONDRAL ALLOGRAFTS: STATE OF THE ART**

Stephen ABELOW (UNITED STATES)

10:00 - 10:30

**Break**

10:30 - 12:00

#### **ICRS (International Cartilage Repair Society)/SICOT Symposium – Osteochondral Defects: The Great Debate - Part II**

*Moderators:*

Stephen ABELOW (UNITED STATES), Pedro GUILLEN (SPAIN), Lars PETERSON (SWEDEN), Valerio SCIARRETTA (ITALY), Rene VERDONK (BELGIUM)

#### **CELL BASED CARTILAGE THERAPY**

Lars PETERSON (SWEDEN)

#### **AUTOLOGOUS CHONDROCYTE IMPLANTATION UTILISING CHARACTERISED CULTURED CHONDROCYTES**

Rene VERDONK (BELGIUM)

**ARTHROSCOPIC MACI AND ICC**

Marta GUILLEN (SPAIN)

**THE RIZZOLI/ITALIAN EXPERIENCE**

Stefano ZAFFAGNINI (ITALY)

**NO CELLS AND STEM CELLS**

Elizaveta KON (ITALY)

**DISCUSSION**

12:00 - 12:30

*Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**

Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00

*Break*

14:00 - 15:30

*Instructional Course – Sports Medicine: Meet the Experts - My Favourite Anterior Cruciate Ligament Technique*

*Moderators:*

Stephen ABELOW (UNITED STATES), William RODKEY (UNITED STATES)

**MY FAVOURITE ACL**

Rene VERDONK (BELGIUM)

**MY FAVOURITE ACL**

Vikas KHANDUJA (UNITED KINGDOM)

**MY FAVOURITE ACL**

Pedro GUILLEN (SPAIN)

**MY FAVOURITE ACL**

Giancarlo PUDDU (ITALY)

**MY FAVOURITE ACL**

Lars PETERSON (SWEDEN)

**MY FAVOURITE ACL**

Stefano ZAFFAGNINI (ITALY)

**MY FAVOURITE ACL**

Kevin STONE (UNITED STATES)

**MY FAVOURITE ACL**

Elizaveta KON (ITALY)

**MY FAVOURITE ACL**  
Alberto GOBBI (ITALY)

**MY FAVOURITE ACL**  
Fabio Valerio SCIARRETTA (ITALY)

**MY FAVOURITE ACL**  
Stephen ABELOW (UNITED STATES)

15:30 - 16:00 *Break*

16:00 - 17:30 *Free Papers – Sports Medicine of the Shoulder*

*Moderators:*

Srinath KAMINENI (UNITED STATES), Luigi MURENA (ITALY)

- 44545 CLINICAL OUTCOME AFTER ARTHROSCOPIC DOUBLE ROW REPAIR VERSUS MODIFIED MASON ALLEN SINGLE ROW REPAIR IN MEDIUM SIZED ROTATOR CUFF TEARS**  
Amr RASHWAN, Alaa Eldin SOLIMAN (EGYPT)
- 42608 ACCURACY OF SUTURE PASSAGE DURING ARTHROSCOPIC REMPLISSAGE: WHAT ANATOMIC LANDMARKS CAN IMPROVE IT?**  
Grant GARCIA, Ryan DEGEN, Joseph LIU, Joshua DINES (UNITED STATES)
- 44200 PRELIMINARY CLINICAL EFFECT OF ARTHROSCOPIC ASSISTED TREATMENT OF RECURRENT SHOULDER DISLOCATION WITH TENDON ALLOGRAFT RECONSTRUCTING ANTERIOR INFERIOR PORTION OF LABRUM AND GLENOHUMERAL LIGAMENT**  
Wentao ZHANG, Changqing JIANG, Wei LI, Peng CHEN (CHINA)
- 45620 MID-TERM RESULTS OF ARTHROSCOPIC TIGHTROPE TECHNIQUE FOR THE ACUTE ACROMIOCLAVICULAR JOINT DISLOCATION**  
M. Ammar ASLAM, Jitesh JAIN (INDIA)
- 44623 WHEN DOES PATIENTS' IMPROVEMENT PLATEAU AFTER ARTHROSCOPIC ROTATOR CUFF REPAIR?**  
Jerry CHEN, Tingfang LI, Hwei Chi CHONG, Kong Hwee LEE, Chang PAUL, Denny LIE (SINGAPORE)
- 45664 SURGICAL DRAPING FOR SHOULDER ARTHROSCOPY – IMPLICATIONS OF SIMPLIFICATION**  
Srinath KAMINENI, Adam TALAL (UNITED STATES)

- 44554** **“THE LABRAL BRIDGE”: A NOVEL TECHNIQUE FOR ARTHROSCOPIC ANATOMIC KNOTLESS BANKART REPAIR**  
 Roman Christian OSTERMANN<sup>1</sup>, Marcus HOFBAUER<sup>1</sup>, Patrick PLATZER<sup>1</sup>, Todd MOEN<sup>2</sup>  
<sup>1</sup>(AUSTRIA), <sup>2</sup>(UNITED STATES)
- 44899** **THE MANAGEMENT OF THE LONG HEAD OF BICEPS IN ROTATOR CUFF REPAIR: PROSPECTIVE COHORT STUDY OF HIGH VERSUS SUBPECTORAL TENODESIS**  
 Michele Attilio ROSA, Francesco FRANCESCHI, Edoardo FRANCESCHETTI, Luca LA VERDE (ITALY)
- 45285** **INFLUENCE OF SAFETY EQUIPMENT ADVANCES ON KITESURFING INJURIES**  
 Max Daniel KAUTHER, Sebastian BAUMBACH, Tanja STAWINSKI, Manuel BURGGRAF, Marcel DUDDA, Marcus JÄGER, Christian WEDEMEYER (GERMANY)



**Friday, 9 September**  
**Bramante 2**

08:30 - 10:00

*Invited Lecture & Free Papers – Clinical Research*

*Moderators:*

Antonio GIGANTE (ITALY), Eiji ITOI (JAPAN)

*Invited Speaker*

**STATE OF THE ART OF ORTHOPAEDIC RESEARCH IN ITALY**

Antonio GIGANTE (ITALY)

**45426** **HOW DO ORTHOPAEDIC TRAINEES LEARN CLINICAL EXAMINATION SKILLS (CESS)? THE EGYPTIAN FELLOWSHIP IN ORTHOPAEDICS AND TRAUMA (EFOT) EXPERIENCE**

Emad Samuel Boles SAWEERES (EGYPT)

**43622** **A CLINICAL RESEARCH COURSE FOR INTERNATIONAL ORTHOPAEDIC TRAUMA SURGEONS: TWO-YEAR OUTCOMES**

Paul LEVY, Hao-Hua WU, Kushal PATEL, Amber CALDWELL, Max LIU, David SHEARER, Jesse HAHN, Jeremie LAROUCHE, Richard GOSSELIN, Saam MORSHED (UNITED STATES)

**45642** **PLATELET RICH PLASMA: A NOVEL GROWTH FACTOR-BASED TREATMENT STRATEGY IN PLANTAR FASCIITIS**

Aditya K. AGGARWAL, Chandra SEKHAR, Neelam MARWAHA, Mahesh PRAKASH (INDIA)

- 42696 CROSS-SECTIONAL AND LONGITUDINAL ASSOCIATIONS BETWEEN SERUM INFLAMMATORY CYTOKINES AND KNEE BONE MARROW LESIONS IN PATIENTS WITH KNEE OSTEOARTHRITIS**  
Zhaohua ZHU (AUSTRALIA)
- 45270 PROPRIOCEPTION POTENTIAL OF THE INJURED ACL STUMPS AND ITS SIGNIFICANCE**  
Mayur NAYAK, Hira Lal NAG, Sahil BATRA, Naman WAHAL (INDIA)
- 45169 PREVENTING LATERAL FRACTURE WITH OPEN MEDIAL HIGH TIBIAL OSTEOTOMY**  
Saodat ASILOVA, Kamolhuja ESHNAZAROV (UZBEKISTAN)
- 43857 THE RELATIONSHIPS BETWEEN BONE TURNOVER MARKERS IN THE SYNOVIAL FLUID AND PROGRESSION OF OSTEOARTHRITIS**  
Kenichi KURATA, Yoshitomo SAITA, Takanori WAKAYAMA, Yohei KOBAYASHI, Susumu FUKASAKU, Kazuo KANEKO, Masayuki NEMOTO (JAPAN)
- 44895 LOW-INTENSITY PULSED ULTRASOUND DOES NOT INFLUENCE BONE HEALING BY DISTRACTION OSTEOGENESIS: A MULTICENTRE DOUBLE BLIND RANDOMISED CONTROL TRIAL**  
Nicholas CLEMENT, Hamish SIMPSON (UNITED KINGDOM)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Research in Biomaterials/Biomechanics*

*Moderators:*

Hamish SIMPSON (UNITED KINGDOM), Mohamed SUKEIK (UNITED KINGDOM)

- 42807 BIOMECHANICAL COMPARISON OF DOUBLE VERSUS TRIPLE ENDOBUTTON RECONSTRUCTION TECHNIQUES IN PATIENTS WITH ACROMIOCLAVICULAR JOINT DISLOCATION**  
Osman CIVAN, Levent UGUR, Halil ATMACA (TURKEY)
- 43231 DOES THE GAP SHAPE INFLUENCE BIOMECHANICAL PROPERTIES OF DISTAL HUMERAL FRACTURE? FINITE ELEMENT STUDY**  
Srecko SABALIC, Zvonimir TOMICEVIC, Martin SURJAK, Fabijan CUKELJ, Janos KODVANJ (CROATIA)
- 45478 ALTERNATIVE TENSION BAND TECHNIQUE FOR OLECRANON FRACTURES: A BIOMECHANICAL STUDY**  
Sanjit SINGH, Abol BEHZADIAN, Raghavendra MADUSUDHAN, Jan KUIPER, Amit SINHA (UNITED KINGDOM)

- 42824 BONE MORPHOGENETIC PROTEIN-2 ANTAGONISES INTERLEUKIN-18-INDUCED HUMAN INTERVERTEBRAL DISC DEGENERATION**  
Jong-Kil KIM, Seong-Il WANG, Kwang-Bok LEE (SOUTH KOREA)
- 44575 THE ROLE OF NITRIC OXIDE IN BONE HEALING**  
Nikolay KARCHEBNY, Vasiliy ZORYA, Sergey NOVIKOV, Arsenty KOSHKIN (RUSSIA)
- 42821 ENHANCED EFFECTS OF EXFOLIATED CARBON NANOFIBRES WITH BONE MORPHOGENETIC PROTEIN IN A RAT FEMORAL FRACTURE MODEL**  
Masashi MIYAZAKI, Masahiro TOYODA, Toyomi YOSHIIWA, Horoshi TSUMURA (JAPAN)
- 43031 THE EFFECT OF IMPLANT POSITION ON TIBIAL BONE STRAIN FOLLOWING LATERAL UNICOMPARTMENTAL KNEE REPLACEMENT: A BIOMECHANICAL MODEL USING DIGITAL IMAGE CORRELATION**  
Adam ALI, Simon NEWMAN, Pramod PUTHUMANAPULLY, Justin COBB (UNITED KINGDOM)

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**  
Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30 *Free Papers – Research in Cartilage/Tissue Engineering*

*Moderators:*

Pietro DE BIASE (ITALY), Miroslav HASPL (CROATIA)

**43093 A NOVEL DUAL-CHAMBER CULTURE SYSTEM WITH BIOMIMETIC TRIPHASIC SCAFFOLD FOR OSTEOCHONDRAL TISSUE ENGINEERING**  
Wei-Nan ZENG (CHINA)

**44730 TRANEXAMIN ACID DOES NOT HARM CHONDROCYTES**  
Federico DETTONI, Antonio MARMOTTI, Silvia MATTIA, Federica ROSSO, Davide Edoardo BONASIA, Roberto ROSSI (ITALY)

**44142 TREATMENT OF FULL THICKNESS CARTILAGE DEFECTS WITH PEDUNCULATED AND FREE SYNOVIAL GRAFTS: A COMPARATIVE STUDY IN AN ANIMAL MODEL**  
Ekin Kaya SIMSEK, Bahtiyar HABERAL, Orcun SAHIN, Rahmi Can AKGÜN, Ates MAHMUTI, Ismail Cengiz TUNCAY (TURKEY)

- 42651 IL-17A PROMOTES INTERVERTEBRAL DISC DEGENERATION BY INHIBITING AUTOPHAGY LEVELS VIA PI3K-GSK3B-BCL2 SIGNALING PATHWAY**  
Shujun ZHANG, Wenjun WANG (CHINA)
- 42557 BIOSAFETY OF THE NOVEL VANCOMYCIN LOADED BONE-LIKE HYDROXYAPATITE/POLYAMINO ACID BONY SCAFFOLD**  
Zhidong CAO (CHINA)
- 42965 TISSUE ENGINEERING THE TITANIUM IMPLANT HOST INTERFACE USING DENTAL FOLLICLE STEM CELLS**  
Ondine LUCACIU, Olga SORITAU, Noemi DIRZU, Radu CÂMPIAN, Grigore BACIUT, Petru BERCE, Mihaela BACIUT, Bogdan CRISAN (ROMANIA)
- 43398 ACOUSTIC-FREQUENCY VIBRATORY STIMULATION REGULATES THE BALANCE BETWEEN OSTEOGENESIS AND ADIPOGENESIS OF HUMAN BONE MARROW-DERIVED MESENCHYMAL STEM CELLS**  
Zong-Ping LUO, Xi CHEN (CHINA)
- 44109 HUMAN URINE DERIVED STEM CELLS IN COMBINATION WITH HYPOXIA AND 3D NANOFIBROUS SCAFFOLD CAN BE APPLIED FOR NUCLEUS PULPOSUS REGENERATION**  
Dawei ZHANG (CHINA)

15:30 - 16:00 *Break*

16:00 - 17:30 *Free Papers – Research: Miscellaneous*

*Moderators:*

Martin KELLY (IRELAND), Michel TEUBEN (GERMANY)

- 44393 SIMULATED PATIENTS AND PROFESSIONAL ACTORS VERSUS REAL PATIENTS AS LEARNING RESOURCES IN THE MUSCULOSKELETAL CLINICAL SKILL TRAINING OF MEDICAL STUDENTS – A PILOT RANDOMISED CONTROL TRIAL**  
Martin KELLY, Iain FEELEY, John O'BYRNE (IRELAND)
- 44385 A RANDOMISED CONTROL TRIAL COMPARING THE EFFECT OF BED SIDE TEACHING AND CASE BASED TEACHING ON OSCE PERFORMANCE IN THIRD-YEAR MEDICAL STUDENTS**  
Martin KELLY, Iain FEELEY, John O'BYRNE (IRELAND)
- 45423 FINANCIAL IMPACT OF DAMAGED STERILE WRAPPING IN ORTHOPAEDICS AND ITS EFFECT ON PATIENT CARE**  
Sudhir KANNAN, Aashish GULATI, Anup SHETTY, Timothy GREEN, Claire Jones MANNING (UNITED KINGDOM)

- 44336 X-RAY WAITING TIMES AFFECT THE EFFICIENT RUNNING OF THE TRAUMA AND ORTHOPAEDIC CLINIC: A STRATEGY TO OVERCOME THIS CHALLENGING PROBLEM**  
Alex CHOWDHURY, Muhammad Zahid SAEED, Leanne ROYLE, Philip AHRENS (UNITED KINGDOM)
- 43372 TGF- $\beta$  RESCUES EXTRACELLULAR MATRIX TURNOVER IN LHB IN ROTATOR CUFF PATHOLOGY**  
Marco SARMENTO, Jacinto MONTEIRO (PORTUGAL)
- 45044 THE EFFECT OF ANGIOTENSIN CONVERTING ENZYME INHIBITORS AND ANGIOTENSIN RECEPTOR BLOCKERS ON TENDON HEALING: AN EXPERIMENTAL STUDY**  
Ercan SAHIN, Fatih KORBAY, Murat SONGUR, Kanat GULLE, Selçuk KESER, Ahmet BAYAR (TURKEY)
- 45057 LEVELS OF EVIDENCE IN PELVIC TRAUMA: A BIBLIOMETRIC ANALYSIS OF THE TOP 50 CITED PAPERS**  
Ailbhe WHITE-GIBSON, Barry O'NEILL, Ashleigh LEVENDALE, John QUINLAN, Michael LEONARD, Brendan O'DALY (IRELAND)
- 44873 THE SYSTEMIC NEUTROPHIL RESPONSE TO LONG BONE FRACTURES AND INTRAMEDULLARY NAILING IN RATS**  
Michel TEUBEN, Roman PFEIFER, Qiao ZHI, Johannes GREVEN, Frank HILDEBRAND, Hans-Christian PAPE (GERMANY)
- 42492 AN ATTEMPT TO SPEED UP THE FRACTURE HEALING**  
Mustafa ARIK, Rahmi Can AKGÜN, Aysen TERZI, Remzi ERDEM, Orcun SAHIN, Cengiz TUNCAI (TURKEY)



**Friday, 9 September**

**Bramante 3**

08:30 - 10:00

*Instructional Course – Reviewers Course - Part I*

*Moderator:*

Andrew QUAILE (UNITED KINGDOM)

**INTRODUCTION/COURSE AIMS**

Andrew QUAILE (UNITED KINGDOM)

**WHY REVIEW A PAPER**

Andrew QUAILE (UNITED KINGDOM)

**WHAT IS EXPECTED FROM A REVIEWER**

Marc PATTERSON (UNITED KINGDOM)

**WHAT TOOLS ARE AVAILABLE**

Vikas KHANDUJA (UNITED KINGDOM)

**WHICH TYPES OF PAPER ARE PREFERRED**

Hatem SAID (EGYPT)

**THE PROCESS FROM SPRINGER'S PERSPECTIVE**

Gabriele SCHROEDER (GERMANY)

**DISCUSSION**

10:00 - 10:30 *Break*

10:30 - 12:00 *Instructional Course – Reviewers Course - Part II*

*Moderator:*

Andrew QUAILE (UNITED KINGDOM)

**PRACTICAL EXAMPLES**

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**

Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30 *Symposium – Academic Writing in Orthopaedics*

*Moderators:*

Cyril MAUFFREY (UNITED STATES), Marius SCARLAT (FRANCE)

**INTERNATIONAL ORTHOPAEDICS AND CURRENT STATUS**

Marius SCARLAT (FRANCE)

**QUALITY AND RELEVANCE OF YOUR RESEARCH**

Cyril MAUFFREY (UNITED STATES)

**THE PUBLISHER'S POINT OF VIEW**

Gabriele SCHROEDER (GERMANY)

**REVIEWERS, WRITERS AND EDITORS – WHAT MAKES A GOOD JOURNAL?**

Andrew QUAILE (UNITED KINGDOM)

**IMPACT AND CITATIONS: WHAT IS THE POWER OF A JOURNAL?**

Luca M.C. PIERANNUNZII (ITALY)

**FRAUD AND MISCONDUCT IN MEDICAL WRITING**

Andreas MAVROGENIS (GREECE)

**DISCUSSION**

15:30 - 16:00 *Break*

16:00 - 17:30 *Symposium – Management of Postoperative Pain*

*Moderator:*

Ajeya ADHIKARI (UNITED KINGDOM)

**THE PHARMACOLOGICAL BASIS AND PROTOCOLS**

Gerry CASHMAN (UNITED KINGDOM)

**THE USE OF SELECTIVE NERVE BLOCKS IN ANAESTHESIA AND ANALGESIA**

Alexander KIDD (UNITED KINGDOM)

**INTRAOPERATIVE TECHNIQUES – SURGEON’S PERSPECTIVE**

Ajeya ADHIKARI (UNITED KINGDOM)

**USE OF ADDUCTOR CANAL BLOCK IN TOTAL KNEE REPLACEMENT**

Ritesh RATHI (UNITED KINGDOM)



**Friday, 9 September**

**Bramante 4**

08:30 - 10:00 *Free Papers – Tuberculosis*

*Moderators:*

Ferdinando DA RIN DE LORENZO (ITALY), Heinz WINKLER (AUSTRIA)

- 44845 PRIMARY TUBERCULOSIS OF CLAVICLE – DIAGNOSIS, RADIOLOGY AND TREATMENT**  
Jatin PRAKASH, Anil MEHTANI (INDIA)
- 44762 COMPARISON OF EFFICACY OF ANTI TUBERCULAR TREATMENT IN SINGLE LEVEL AND MULTILEVEL POTT’S SPINE**  
Varun BHARDWAJ, Pankaj KANDWAL, Kamran FAROOQUE, Raju SHARMA, Arvind JAYASWAL (INDIA)
- 44751 EFFICACY OF 1-YEAR ANTI-TUBERCULAR TREATMENT IN SPINAL TUBERCULOSIS**  
Varun BHARDWAJ, Pankaj KANDWAL, Kamran FAROOQUE, Raju SHARMA, Arvind JAYASWAL (INDIA)
- 43498 STUDY OF 200 CASES OF TUBERCULOSIS OF HIP JOINT**  
Vijay Kumar KHARIWAL, Sadhna GARG (INDIA)
- 43306 MUSCULOSKELETAL TUBERCULOSIS ON PLANES AND MOUNTAINS**  
Shobha ARORA, Pankaj KANDWAL, Tarun GOYAL, Anant SINGH (INDIA)
- 45647 HYDATID CYST OF FEMUR MANAGED WITH CURETTAGE AND K-NAILING**  
Naveen MITTAL, Anmol SHARMA (INDIA)
- 44767 COMPARISON OF RESPONSE TO ANTI-TUBERCULAR TREATMENT IN CONTIGUOUS AND NON-CONTIGUOUS MULTILEVEL POTT’S SPINE**  
Varun BHARDWAJ, Pankaj KANDWAL, Kamran FAROOQUE, Raju SHARMA, Arvind JAYASWAL (INDIA)
- 45265 ARE WE MISSING SEPTIC ARTHRITIS IN PATIENTS WITH CRYSTAL ARTHROPATHY?**  
Dushan THAVARAJAH, Paul FLANNAGAN, Jeremy SOUTHGATE (UNITED KINGDOM)

10:00 - 10:30 *Break*

10:30 - 12:00 ***EBJIS (European Bone & Joint Infection Society) Symposium – Campaign Against Disability***

*Moderator:*  
Heinz WINKLER (AUSTRIA)

**BIOFILM – UNDERSTANDING THE FUNDAMENTALS SHALL GUIDE THE TREATMENT OF ORTHOPAEDIC INFECTIONS**  
Carlo ROMANO, Lorenzo DRAGO (ITALY)

**LONG BONE DEFECTS IN INFECTION – TREATMENT OPTIONS FOR FAST RECOVERY**  
Heinz WINKLER (AUSTRIA)

**CERTIFICATION OF HOSPITALS FOR MUSCULOSKELETAL INFECTIONS**  
Guenter LOB (GERMANY)

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**  
Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30 *Symposium – Osteoporosis-Related Fractures in Orthopaedic Surgery*

*Moderator:*  
Julio FERNANDES (CANADA)

**OSTEOPOROSIS FOR DUMMIES: WHAT AN ORTHOPAEDIC SURGEON SHOULD KNOW ABOUT THIS DISEASE?**  
Paolo FALASCHI (ITALY)

**FLS: LET YOUR TEAM DO THE WORK FOR YOU!**  
Josée DELISLE (CANADA)

**THE MULTIDISCIPLINARY CARE OF THE FRAGILITY FRACTURE PATIENT**  
David MARSH (UNITED KINGDOM)

**ROUND TABLE “FOR AND AGAINST WE STAND: A CROSSFIRE ON CONTROVERSIES AND CURRENT PRACTICES”**

15:30 - 16:00 *Break*

16:00 - 17:30 *Free Papers – Osteoporosis & Metabolic Disorders*

*Moderators:*  
Julio FERNANDES (CANADA), Mikheil ZIMLITSKI (GEORGIA)

**43501 OSTEOPOROTIC DISTAL RADIUS FRACTURES: CAN TEN MINUTES OF DAILY HAND GRIP EXERCISE PREVENT THEM?**  
Biswajit SAHU, Rajesh RAJAVELU, Barsha TUDU (INDIA)

**45332 CHOLECALCIFEROL SUPPLEMENTATION FOR GERIATRIC HIP FRACTURE PATIENTS**  
Ianiv KLABER, Tomas ZAMORA, Eduardo BOTELLO, Daniel SCHWEITZER, Pedro Pablo AMENABAR, Maria Jesus LIRA (CHILE)

- 45123 REVERSE SHOULDER ARTHROPLASTY FOR PROXIMAL HUMERUS FRAGILITY FRACTURES**  
Riccardo IUNDUSI, Cecilia RAO, Eleonora PICCIRILLI, Maurizio FEOLA, Elena GASBARRA, Umberto TARANTINO (ITALY)
- 44218 EFFECT OF AN INTENSIVE CONSERVATIVE THERAPY WITH DAILY TERIPARATIDE ADMINISTRATION AND REHABILITATION FOR OSTEOPOROTIC DELAYED VERTEBRAL COLLAPSE AND PARALYSIS**  
Norimitsu WAKAO, Mitsuhiro KAMIYA, Mikinobu TAKEUCHI, Atsuhiko HIRASAWA, Masataka DEIE (JAPAN)
- 43447 HEMIARTHROPLASTY IN THE HIP FRACTURE PATIENT WITH RENAL IMPAIRMENT: TO CEMENT OR NOT TO CEMENT?**  
Tong Leng TAN (SINGAPORE)
- 43804 CORRELATION OF DIABETES WITH OSTEOPOROTIC FRACTURES**  
Mridul ARORA, Pradeep K. SINGH (INDIA)
- 43289 WHAT'S THE IMPACT ON AN ORTHOPAEDIC DEPARTMENT OF PROXIMAL FEMUR FRACTURES IN THE ELDERLY POPULATION? A RETROSPECTIVE STUDY WITH AN AVERAGE 84 MONTHS OF FOLLOW-UP**  
Maribel GOMES, Nuno NAMORA, Marco OLIVEIRA, Roberto COUTO, João MOURA, Maria João ABREU, Helena RIBEIRO, Teresa MARTINS, Catarina PINHO, Carla PEREIRA, Carlos VILELA (PORTUGAL)
- 43002 TOTAL HIP REPLACEMENT POSTOPERATIVE DEXA EVALUATION IN DIFFERENT TYPES OF FEMORAL STEMS**  
Giorgi LORIA, Mikheil ZIMLITSKI, Levan NATCHKEBIA, George ZIMLITSKI, Vaga GAPRINDASHVILI (GEORGIA)
- 44867 COMPARISON OF BONE FORMATION MAKER PINP BETWEEN BONE UNION GROUP AND DELAYED UNION GROUP IN THORACOLUMBAR VERTEBRAL COMPRESSION FRACTURES WITH CONSERVATIVE TREATMENT UNDERWENT ADMINISTRATION OF DAILY TERIPARATIDE**  
Masaru KOBAYASHI, Takahiro SASA (JAPAN)



**Friday, 9 September**

**Bramante 6-7**

09:30 - 15:30

*Industry-Sponsored Hands-on Course*



## Friday, 9 September

### Bramante 8-9

10:00 - 12:00 *Industry-Sponsored Hands-on Course*

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**  
Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30 *Free Papers – Lower Extremity Trauma II*

*Moderators:*

Filippo CASELLA (ITALY), Mohamed RASHED (LIBYA)

**43200 TIP APEX DISTANCE IN DYNAMIC HIP SCREW SURGERY**

Avinash JOSHI, Umesh NAGARE, Simon KELLY, Roger CLOSE (UNITED KINGDOM)

**42936 SCIATIC NERVE PALSY FOLLOWING TRANSCATHETER ARTERIAL EMBOLISATION FOR AN ACETABULAR FRACTURE: A CASE REPORT**

Chiaki HORII, Koga DAISUKE, Azuma SEIICHI, Akira IZUMI (JAPAN)

**42680 TRAUMATOLOGICAL APPLICATION OF THREE-DIMENSIONAL RECONSTRUCTION AND RAPID PROTOTYPING TECHNOLOGY IN COMPLEX ACETABULAR FRACTURES**

Concetto BATTIATO, Luca BASIGLINI, Dante BATTISTA, Alessio CIUFFOLETTI, Francesca GIOVANNINI, Dimitri MARSEGLIA, Alain MULAP, Marcella RIZZO (ITALY)

**42472 QUADRILATERAL PLATE FRACTURES OF THE ACETABULUM: SUGGESTED NOVEL CLASSIFICATION**

Mahmoud ABDEL KARIM, Walid Ashraf ELNAHAL, Sherif KHALED, Ahmed Hazem ABDELAZEEM, Hazem ABDELAZEEM (EGYPT)

- 45065 CLINICAL OUTCOME OF BILATERAL SACRAL INSUFFICIENCY FRACTURES BY BISEGMENTAL TRANSACRAL FIXATION VERSUS LUMBOPELVIC STABILISATION**  
Friederike KLAUKE, Bernhard ULLRICH, Felix GOEHRE, Philipp SCHENK, Gunther HOFMANN, Thomas MENDEL (GERMANY)
- 44702 SEXUAL DYSFUNCTIONS AFTER PELVIC FRACTURES**  
Aruljothi VAITHILINGAM, Vivek TRIKHA (INDIA)
- 44015 POSTOPERATIVE CT EVALUATION AND DEFINITION OF SAFE CORRIDORS IN THE ANTERIOR COLUMN FRACTURES OF ACETABULUM FIXED USING IN OUT IN TECHNIQUE**  
Laasya Vasisht DWARAKANATH, Purushotham LAL (INDIA)
- 43365 FUNCTIONAL AND RADIOLOGICAL OUTCOMES OF SURGICALLY TREATED LATERAL COMPRESSION TYPE II PELVIC INJURIES**  
Aruljothi VAITHILINGAM, Vivek TRIKHA (INDIA)
- 45565 LOCKING VERSUS NON-LOCKING PLATE IN THE MANAGEMENT OF SYMPHYSIS PUBIS FRACTURE: DOES IT REALLY MAKE A DIFFERENCE?**  
Sally WRIGHT, Taher ABDELRAHMAN, Angus LEWIS, Jasvinder DAURKA (UNITED KINGDOM)
- 44979 SHORT-TERM COMPLICATIONS IN HIV PATIENTS WITH FEMUR FRACTURE: MATCHED PAIR STUDY**  
Alfonso MANZOTTI, Francesca MOIOLI, Davide BRIOSCHI, Giuliano SALVADORI, Lorenzo MARCHESI (ITALY)
- 43444 MISSED/MISDIAGNOSED PELVIC INJURIES ON CT SCAN WITH PELVIC BINDER IN-SITU**  
Naveen LOKIKERE, Ulhas SONAR, Amol CHITRE, Henry WYNN JONES, Nikhil SHAH, Tony CLAYSON (UNITED KINGDOM)

15:30 - 16:00 *Break*

16:00 - 17:30 *Symposium – Leadership Management*

*Moderator:*

Mohamed SUKEIK (UNITED KINGDOM)

**LEARNING STYLES**

Mohamed SUKEIK (UNITED KINGDOM)

**DEFINING LEADERSHIP AND MANAGEMENT**

Mohamed SUKEIK (UNITED KINGDOM)

**LEADERSHIP STYLES**

Mohamed SUKEIK (UNITED KINGDOM)

**PERSONALITY TRAITS AND LEADERSHIP**

Mohamed SUKEIK (UNITED KINGDOM)

**MANAGING CHANGE**

Joud ABDELJAWAD (UNITED KINGDOM)

**THE EFFECTIVE TEAM**

Joud ABDELJAWAD (UNITED KINGDOM)

**ASSERTIVENESS**

Joud ABDELJAWAD (UNITED KINGDOM)

**MANAGING CONFLICT**

Joud ABDELJAWAD (UNITED KINGDOM)



**Friday, 9 September**

**Bramante 10-11**

09:00 - 17:00

*Industry-Sponsored Hands-on Course*



**Friday, 9 September**

**Bramante 12-14**

14:00 - 15:30

*Best Papers Session*

**42556**

**HOW STABLE IS OUR TOTAL KNEE REPLACEMENT? – INTRAOPERATIVE NAVIGATION ASSESSMENT OF MID FLEXION INSTABILITY**

Melvin J. George IRIMPEN, Adnan ZAHOOR, Jai Thilak KAILATHUVALAPPIL (INDIA)

**43065**

**SURVIVAL OF A SECOND-GENERATION DUAL MOBILITY CUP AFTER 14 YEARS: PROSPECTIVE STUDY OF 490 IMPLANTS**

Jean Marc PUCH, Loys DESCAMPS, Guy DERHI (FRANCE)

- 43115 A COMPARATIVE STUDY OF MINIMALLY INVASIVE APPROACH USING PERCUTANEOUS PEDICLE SCREWS FIXATION VERSUS OPEN APPROACH IN METASTATIC SPINE TUMOUR SURGERY**  
Karthikeyan MAHARAJAN, Aye ZAW, Rishi MALHOTRA, Naresh KUMAR (SINGAPORE)
- 43226 IS QUADRICEPS SPARING APPROACH BETTER THAN MEDIAL PARAPATELLAR APPROACH IN PRIMARY TOTAL KNEE ARTHROPLASTY AT SHORT TERM? A SYSTEMATIC REVIEW AND META-ANALYSIS**  
Mark BLOMFIELD<sup>1</sup>, Alcelik ILHAN<sup>1</sup>, Ben HAUGHTON<sup>1</sup>, Waheed MARIAH<sup>1</sup>, Cenk OZTURK<sup>2</sup>, David CASH<sup>1</sup>, Peter CAMPBELL<sup>1</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(TURKEY)
- 43279 CT CLASSIFICATION OF POSTERIOR MALLEOLUS FRACTURES**  
Michal TUCEK, Jan BARTONICEK, Ondrej NANKA (CZECH REPUBLIC)
- 43336 TANTALUM CONES FOR SEVERE BONE LOSS IN REVISION TOTAL KNEE ARTHROPLASTY – A MINIMUM OF 5-YEAR FOLLOW-UP**  
Valerio MASTROIANNI<sup>1</sup>, Ivan DE MARTINO<sup>2</sup>, Sculco PETER<sup>2</sup>, Elvira PORCO<sup>1</sup>, Olimpio GALASSO<sup>1</sup>, Giorgio GASPARINI<sup>1</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(UNITED STATES)
- 43562 MUSCLE REGENERATION FOLLOWING ROTATOR CUFF REPAIR**  
Mustafa RASHID, Butt USMAN (UNITED KINGDOM)
- 43897 SURGERY FOR SPINAL TUBERCULOSIS: A MULTI-CENTRE EXPERIENCE OF 621 CASES**  
M. Shah ALAM<sup>1</sup>, M. Rezaul KARIM<sup>1</sup>, Sharif Ahmed JONAYED<sup>1</sup>, Kevin PHAN<sup>2</sup>, Hasan Khalid MUNIR<sup>1</sup>, Chakraborty SHUBHENDU<sup>1</sup>, Tashfique ALAM<sup>1</sup>  
<sup>1</sup>(BANGLADESH), <sup>2</sup>(AUSTRALIA)
- 44413 EXTERNAL FIXATION OF TROCHANTERIC FRACTURES UNDER LOCAL ANAESTHESIA – OUTCOMES OF THE TREATMENT OF 200 PATIENTS WITH A LONG FOLLOW-UP OF 24 MONTHS**  
Mohamed Altayeb MUSSA, Adel Refaat AHMED (EGYPT)
- 45361 CLASSIFICATION OF THE ACETABULAR-LABRAL-PINCER COMPLEX: AN ARTHROSCOPIC AND RADIOLOGICAL STUDY INTO VARIANCE OF THE ACETABULAR LABRUM IN RELATION TO PINCER LESIONS**  
Debbie SHAW, Gareth STABLES, Aslam MOHAMMED (UNITED KINGDOM)



## Friday, 9 September

### Tintoretto 2

08:30 - 10:00

#### *Short Free Papers – Shoulder*

*Moderators:*

Don BUFORD (UNITED STATES), Pierre MANSAT (FRANCE)

- 45226 REVERSE SHOULDER ARTHROPLASTY AND LATISSIMUS DORSI TRANSFER – WHAT CAN WE EXPECT?**  
Reinhold ORTMAIER, Herbert RESCH (AUSTRIA)
- 44880 IS THE IRREPARABILITY OF ROTATOR CUFF TEARS PREDICTABLE?**  
In-Bo KIM (SOUTH KOREA)
- 43272 OUTCOMES OF ARTHROSCOPIC-ASSISTED LATISSIMUS DORSI TRANSFER FOR IRREPARABLE MASSIVE ROTATOR CUFF TEARS**  
Daria Anna RICCELLI, Roberto CASTRICINI, Marco DE GORI, Giovanni GRANATA, Nicola ORLANDO, Olimpio GALASSO, Giorgio GASPARINI (ITALY)
- 44740 RADIAL HEAD RESECTION AND HEMI-INTERPOSITION ARTHROPLASTY IN MASADA TYPE II DEFORMITY IN PATIENTS WITH MULTIPLE OSTEOCHONDROMAS: EVALUATION OF A NEW SURGICAL TECHNIQUE**  
Mark FLIPSEN<sup>1</sup>, Arnard VAN DER ZWAN<sup>1</sup>, John HAM<sup>1</sup>, Konrad MADER<sup>2</sup>  
<sup>1</sup>(NETHERLANDS), <sup>2</sup>(GERMANY)
- 43480 INCREASING INCIDENCE OF DISTAL BICEPS RUPTURE – OUTCOMES FOLLOWING SURGICAL REPAIR WITH A SINGLE INCISION TECHNIQUE**  
Blair TWEEDIE, Terence SAVARIDAS, Alan HILLEY, Allan STIRRAT (UNITED KINGDOM)
- 45640 COMPARATIVE STUDY OF PLATING VERSUS CONSERVATIVE TREATMENT IN MID-SHAFT FRACTURE OF CLAVICLE**  
Ram Krishan SINGH DHAKAD (INDIA)
- 45356 ARTHROSCOPIC RECONSTRUCTION OF ANTERIOR INSTABILITY WITH ALL-SUTURE ANCHORS**  
Don BUFORD (UNITED STATES)
- 44373 AN INNOVATIVE APPROACH FOR INTRAMEDULLARY NAILING FOR CLAVICLE FRACTURES – A CASE SERIES**  
Mridul ARORA, Ashok ARORA (INDIA)
- 45472 IS THERE A PLACE FOR CONSERVATIVE TREATMENT OF OLD SHOULDER DISLOCATIONS OBSERVED IN AFRICA?**  
Farikou IBRAHIMA (CAMEROON)

- 44850 HYDRODILATATION FOR FROZEN SHOULDER: DOES IT REALLY WORK?**  
Petrea IFTIMIE, Joan Tomas GEBELLI, Ester BLANCH, Antonio BUÑUEL,  
Jordi RECASENS (SPAIN)
- 44368 IDIOPATHIC ADHESIVE CAPSULITIS IN THE DIABETIC SHOULDER  
– RESULTS OF A META-ANALYSIS**  
Nasri ZREIK<sup>1</sup>, Rayaz MALIK<sup>2</sup>, Charalambos CHARALAMBOUS<sup>1</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(QATAR)
- 44093 OUTCOMES OF DISTAL CLAVICLE FRACTURES BY BRIDGING HOOK-PLATE  
FIXATION**  
Satoshi IWASHITA, Hiroshi HASHIGUCHI, Atsushi OKUBO, Minoru  
YONEDA, Shinro TAKAI (JAPAN)
- 43548 MIGRATION OF METAL SUTURE ANCHORS USED FOR BANKART REPAIRS  
TO THE EXTRA-ARTICULAR REGION**  
Serkan BILGIÇ, Ibrahim YANMIS, Selami CAKMAK, Murat SENGUL  
(TURKEY)
- 43370 EARLY MOBILISATION AFTER RADIAL CAPSULOTOMY IN ADHESIVE  
CAPSULITIS**  
Marco SARMENTO, Nuno MOURA, António CARTUCHO (PORTUGAL)

10:00 - 10:30 *Break*

10:30 - 12:00 *Short Free Papers – Hip*

*Moderators:*

Pietro DALLA VEDOVA (ITALY), Jochen EULERT (GERMANY)

- 43165 ACCURACY OF COMPONENT ORIENTATION USING IMAGE-FREE  
NAVIGATION IN TOTAL HIP ARTHROPLASTY**  
Yu TAKEDA, Shigeo FUKUNISHI, Syoji NISHIO, Shiniti YOSHIYA (JAPAN)
- 42912 TOTAL HIP ARTHROPLASTY IN 6,690 PATIENTS WITH INFLAMMATORY  
ARTHRITIS: IMPACT OF MEDICAL COMORBIDITIES AND AGE ON EARLY  
MORTALITY**  
Rüdiger WEISS, Göran GARELLICK, Johan KÄRRHOLM, Nils HAILER  
(SWEDEN)
- 45466 TOTAL HIP REPLACEMENT: INCREASING FEMORAL OFFSET IMPROVES  
FUNCTIONAL OUTCOME**  
Nicholas CLEMENT, Rebecca PATRICK-PATEL, Deborah MACDONALD,  
Steffen BREUSCH (UNITED KINGDOM)

- 44749 MILD OR MODERATE RENAL INSUFFICIENCY DOES NOT INCREASE RISK FOR ACCUMULATION OF COBALT AND CHROMIUM IN PATIENTS WITH METAL-ON-METAL HIP REPLACEMENTS**  
Olli LAINIALA, Aleksi REITO, Antti ESKELINEN (FINLAND)
- 44887 3D GAIT ANALYSIS REVEALS EARLY BENEFITS AFTER HIP ARTHROPLASTY**  
Oskar A. SCHMID<sup>1</sup>, Ines HAFERKAMP<sup>2</sup>, Peter THAN<sup>1</sup>  
<sup>1</sup>(HUNGARY), <sup>2</sup>(GERMANY)
- 45245 PREDICTORS OF READMISSION AFTER HIP AND KNEE ARTHROPLASTY**  
Harold AKEHURST, Alex VAUGHAN, Bessie AYRES, Cathryn EITEL, Madhu RAO (UNITED KINGDOM)
- 45340 OUTCOMES OF REVISION FOR RECURRENT PRIMARY TOTAL HIP REPLACEMENT DISLOCATION**  
Nisarg MEHTA, Thomas MARSHALL, Veneesh SELVARATNAM, Carol CHAN, Nigel DONNACHIE, Fintan Adrian CARROLL (UNITED KINGDOM)
- 45255 UNDERSTANDING THE DIFFERENCE IN LENGTH OF STAY BETWEEN PRIMARY ARTHROPLASTIES OF THE HIP AND KNEE**  
Harold AKEHURST, Alex VAUGHAN, Bessie AYRES, Cathryn EITEL, Madhu RAO (UNITED KINGDOM)
- 45236 FOR A CEMENTLESS HIP STEM, IS 100% PRESS-FIT ACHIEVED AND ESSENTIAL? A FINITE ELEMENT STUDY**  
Natalia NUÑO, Michael REIMERINGER (CANADA)
- 45301 EXCHANGE ARTHROPLASTY TO TREAT PERIPROSTHETIC FEMUR FRACTURES**  
Wolfram STEENS, Jan AHRENS, Alexander KATZER (GERMANY)
- 44278 VALIDATION OF THE RANGE OF MOTION WITH MRI OF THE HIP JOINT IN YOUNG ELITE SKIERS AND NON-ATHLETES**  
Anna SWÄRD, Cecilia AGNVALL, Carl TODD, Olof THORESON, Wisam WITWIT, Leif SWÄRD, Adad BARANTO (SWEDEN)
- 42947 MID-TERM RESULTS OF ECOFIT PRIMARY CEMENTLESS TOTAL HIP ARTHROPLASTY – COHORT ANALYSIS OF 618 HIPs WITH UP TO 6-YEAR FOLLOW-UP**  
Vane ANTOLIC, Taras SARLER, Blaz MAVCIC (SLOVENIA)
- 44212 RETENTION OF DUAL MOBILITY UHMWPE LINER: UNDERSTANDING OF WEAR MECHANISM**  
Thomas NERI, Bertrand BOYER, Jean GERINGER, Remi PHILIPPOT, Frederic FARIZON (FRANCE)
- 44870 THIRTY-DAY MORTALITY POST ELECTIVE HIP REPLACEMENT**  
Ahmed FADULELMOLA, Akmal TURAEV, Videsh RAUT (UNITED KINGDOM)

12:00 - 12:30 *Plenary Lecture – Seth A. Greenwald (in Michelangelo 1)*

**ALTERNATIVE BEARING SURFACES: AN EVOLUTION IN TIME**  
Seth A. GREENWALD (UNITED STATES)

12:30 - 14:00 *Break*

14:00 - 15:30 *Short Free Papers – Knee*

*Moderators:*

Cesare CHEMELLO (ITALY), Matteo PAPALIA (ITALY)

**44805 WHAT HAPPENS WHEN A SUCCESSFUL KNEE REPLACEMENT BECOMES OBSOLETE?**

David BUTT, Andreas LEONIDOU, Rishi CHANA, Alison NICHOLL, Helen SANKEY, Felicity LUSTED, Paul GIBB (UNITED KINGDOM)

**45293 INFLUENCE OF AGE, GENDER, BMI AND PRIOR KNEE SURGERY ON PATELLAR HEIGHT IN PATIENTS UNDERGOING PRIMARY TOTAL KNEE ARTHROPLASTY**

Miten Rajendra SHETH<sup>1</sup>, Bartosz BORECKI<sup>2</sup>, Khaled Hamed SALEM<sup>2</sup>  
<sup>1</sup>(INDIA), <sup>2</sup>(GERMANY)

**44510 INCIDENTAL FINDINGS IN PLANNING MRI SCAN FOR PSI TKR – IMPORTANCE OF RADIOLOGY REPORTING**

Srinivas THATI, Gurvinder KAINTH, Hassan HAMID, Muthu GANAPATHI (UNITED KINGDOM)

**43086 INAPPROPRIATENESS OF EXPLICIT CRITERIA USED TO ASSESS THE APPROPRIATENESS OF INDICATION FOR TOTAL KNEE REPLACEMENT – A VALIDATION OF ESCOBAR’S CRITERIA IN INDIAN SCENARIO**

Ganeshkumar ROHINIKUMAR, Senthil SAMBANDAM, Jayadev CHANDRASEKHARAN, Varadaraj MOUNASAMY (INDIA)

**44020 COMBINED ADDUCTOR CANAL BLOCK AND PERIARTICULAR INJECTION, BOTH WITH LIPOSOMAL BUPIVICAINE: AN INNOVATIVE APPROACH FOR ANALGESIA IN TOTAL KNEE ARTHROPLASTY**

Foster CHEN, Yossef BLUM, Andrew SCHWARTZ, Victor POLSHIN, Naum SHAPARIN, Boleslav KOSHARSKYY (UNITED STATES)

**44954 A RANDOMISED CONTROL TRIAL TO EVALUATE THE EFFECTIVENESS OF INTRAVENOUS, INTRA-ARTICULAR AND TOPICAL WASH REGIMES OF TRANEXAMIC ACID IN PRIMARY TOTAL KNEE ARTHROPLASTY**

Jatin PRAKASH, Jong Keun SEON, Young Joo SHIN, Eun Kyon SONG (SOUTH KOREA)

- 44892 THE EFFICIENCY OF SUPPLEMENTAL INTRAVENOUS TRANEXAMIC ACID IN FURTHER REDUCING HIDDEN BLOOD LOSS IN PRIMARY TOTAL KNEE ARTHROPLASTY: A PROSPECTIVE PILOT STUDY OF 43 CASES**  
Minwei ZHAO, Li ZIJIAN (CHINA)
- 44255 BLOOD LOSS IN PATIENTS UNDERGOING BILATERAL KNEE REPLACEMENTS WITH AND WITHOUT TOURNIQUET**  
Mansoor KHAN, Mohannad Amin CHINYOY, Syed Kamran AHMED, Tarique KHAN (PAKISTAN)
- 45010 THE INCIDENCE OF DVT/PE IN UNILATERAL VS. ONE-STAGED BILATERAL TKA USING CONTRAST ENHANCED CT AND VENOUS ULTRASONOGRAPHY IN JAPANESE PATIENTS**  
Atsushi SATO, Soshi ASAI, Fumiyoshi KAWASHIMA, Kazunari TOMITA, Hiroshi TAKAGI (JAPAN)
- 44801 ANTHROPOMETRIC STUDY OF THE HAEMOPHILIC KNEE JOINTS UNDERGOING TOTAL KNEE ARTHROPLASTY**  
S.M. Javad MORTAZAVI, Babak HAGHPANAH, Mohammad Hasan KASEB, Mohammad AYATI FIROUZABADI (IRAN)
- 43207 IMPACT OF PREOPERATIVE PLANNING BY SURGEON ON OXFORD KNEE SCORE IN PATIENT SPECIFIC INSTRUMENTATION TOTAL KNEE ARTHROPLASTY**  
Srinivas THATI, Muthu GANAPATHI (UNITED KINGDOM)
- 42596 A PROSPECTIVE COHORT STUDY COMPARING COMPUTERISED TOMOGRAPHY-BASED 'PATIENT SPECIFIC BLOCKS' VERSUS CONVENTIONAL INSTRUMENTS IN PRIMARY TOTAL KNEE ARTHROPLASTY**  
Harsh SINGH (INDIA)
- 43630 THE ANTERIOR TIBIAL PROFILE AS REFERENCE FOR SAGITTAL ALIGNMENT OF TIBIAL COMPONENT IN TOTAL KNEE ARTHROPLASTY**  
Francesca Romana RIPANI, Ettore CARUSO, Pino FLORIO, Pasquale SESSA, Gianluca CINOTTI (ITALY)
- 45198 TOTAL KNEE ARTHROPLASTY IN PATIENTS WITH VALGUS DEFORMITY: WHAT CONSTRAINT IS NECESSARY?**  
S.M. Javad MORTAZAVI, Mohammad Naghi TAHMASEBI, Mohammad Hasan KASEB, Babak HAGHPANAH (IRAN)
- 44504 SAFETY CRITERIA FOR SHORT HOSPITAL STAY AFTER TOTAL JOINT REPLACEMENT**  
Morteza MEFTAH, Ira KIRSCHENBAUM (UNITED STATES)

15:30 - 16:00 *Break*

16:00 - 17:30

*Short Free Papers – Spine*

*Moderators:*

Keith DK LUK (HONG KONG), Darya TESAKOVA (BELARUS)

- 45143 THE NON-OPERATIVE MANAGEMENT OF TYPE II ODONTOID PROCESS FRACTURES IN THE ELDERLY**  
Will KIEFFER, Jonathan FRENCH, Shuaib KARMANI, Benedict ROGERS (UNITED KINGDOM)
- 45189 THE USE OF DORSAL TRANSPEDICULAR (TP) FIXATION AND VENTRAL SPONDYLODESIS IN PATIENTS UNDER 18 YEARS**  
Darya TESAKOVA, Alexander BELETSKY, Sergey ZALEPUGIN, Andrey MAZURENKO, Sergey MAKAREVICH (BELARUS)
- 43701 EFFICACY AND SAFETY OF ROPIVACAIN MONOTHERAPY IN FLUOROSCOPIC-GUIDED FACET INFILTRATION IN LUMBAR FACET SYNDROME**  
Oskar SCHMID, Martin Yijian FÄRBER, Peter THAN (HUNGARY)
- 44182 MID- AND LONG-TERM CLINICAL OUTCOMES OF LUMBAR SPONDYLOLISTHESIS FOLLOWING UNILATERAL INSTRUMENTED TRANSFORAMINAL LUMBAR INTERBODY FUSION**  
Yun LIANG, Xiaoxing JIANG, Zhenzhou FENG, Chun JIANG, Zixian CHEN, Fubing LIU (CHINA)
- 45318 KITCHEN-ELBOW SIGN (KE SIGN) ON THE SKIN OF THE ELBOW: A POSSIBLE INDICATOR OF IMPAIRMENT DUE TO SAGITTAL IMBALANCE IN PATIENT WITH LUMBAR DEGENERATIVE KYPHOSIS**  
Kei MIYAMOTO, Yuichi KONDO, Takahiro MASUDA, Kazunari FUSHIMI, Akira HIOKI, Haruhiko AKIYAMA, Katsuji SHIMIZU (JAPAN)
- 44104 OPTIMAL TERMS OF TRACHEOSTOMY IN PATIENTS WITH ACUTE COMPLICATED CERVICAL SPINE TRAUMA**  
Pavel VOLOTOVSKI, Victorya SUPINA, Alexandre SITNIK, Andrei MAZURENKA, Sergey MAKAREVICH (BELARUS)
- 42473 REVISION SURGERIES OF FAILED CERVICAL ARTIFICIAL DISC REPLACEMENT**  
Jin KANG, Jong-Beom PARK (SOUTH KOREA)
- 45107 SIGNIFICANCE OF ENDPLATE FAILURE IN SYMPTOMATIC LUMBAR DISC HERNIATION**  
Madan SAHOO, Sudhir MAHAPATRA, Jitendra SARANGI, Sheetal KAUR (INDIA)

- 42791 NOVEL METHOD OF CORRECTION OF EARLY ONSET SCOLIOSIS WITH CONGENITAL THORACOLUMBAR KYPHOSIS BY POSTERIOR TETHERING AND VERTEBRAL MODULATION**  
Alaaeldin AHMAD, Loai AKER, Yahia HANBALI, Aesha SBAIH (PALESTINE)
- 43897 SURGERY FOR SPINAL TUBERCULOSIS: A MULTI-CENTRE EXPERIENCE OF 621 CASES**  
M. Shah ALAM<sup>1</sup>, M. Rezaul KARIM<sup>1</sup>, Sharif Ahmed JONAYED<sup>1</sup>, Kevin PHAN<sup>2</sup>, Hasan Khalid MUNIR<sup>1</sup>, Chakraborty SHUBHENDU<sup>1</sup>, Tashfique ALAM<sup>1</sup>  
<sup>1</sup>(BANGLADESH), <sup>2</sup>(AUSTRALIA)
- 43472 THE SAFETY AND EFFICACY OF INTRAOPERATIVE ACUTE NORMOVOLAEMIC HAEMODILUTION (ANH) IN COMPLEX SPINE SURGERY AT AN SRS GOP SITE IN GHANA**  
Irene WULFF, Jenny AYAMGA, Robert DJAGBLETEY, Cornelia QUARCOOPOME, Theresa YIRERONG, Oheneba BOACHIE-ADJEI, Focos Research Group (GHANA)
- 44659 POSTERIOR LIGAMENTOUS COMPLEX INJURY IN BURST FRACTURES: SURGICAL CORRELATION WITH KYPHOSIS, LOSS OF VERTEBRAL HEIGHT AND CANAL COMPROMISE**  
Rabindra Lal PRADHAN, Bimal Kumar PANDEY, Krishna Raj KHANAL, Kiran Prasad RIJAL (NEPAL)
- 43587 SOCIAL DRIFT – A COMPARATIVE ANALYSIS OF BALLOON KYPHOPLASTY FOR OSTEOPOROTIC VERTEBRAL COMPRESSION FRACTURES AND SURGERY FOR FRACTURED NECK OF FEMUR**  
Edmund CHARLES, Shashi KUMAR, Joby JOHN, Girish SWAMY, Tarek ABUZAKUK, Denis CALTHORPE, Rajendra BOMMIREDDY, Zdenek KLEZL (UNITED KINGDOM)

# Saturday, 10 September

Time	Michelangelo 3	Caravaggio 1-2	Caravaggio 3-4	Caravaggio 5-6	Bramante 3	Bramante 4
08:30-10:00	<i>Invited Lecture &amp; Free Papers Paediatrics I</i>  Page 101	<i>Free Papers Spine I</i>  Page 103	<i>Free Papers Hip Arthroplasty II</i>  Page 106	<i>Invited Lecture &amp; Free Papers Upper Extremity Trauma III &amp; Miscellaneous</i>  Page 108	<i>Symposium &amp; Free Papers Road Trauma</i>  Page 110	<i>Free Papers Foot &amp; Ankle</i>  Page 112
10:00-10:30	<i>Break</i>					
10:30-12:00	<i>Free Papers Paediatrics II</i>  Page 102	<i>Free Papers Spine II</i>  Page 104	<i>Free Papers Hip Arthroplasty III</i>  Page 107	<i>Free Papers Lower Extremity Trauma III &amp; Miscellaneous</i>  Page 109	<i>Free Papers Multiligament Knee Injuries</i>  Page 111	<i>Free Papers Conservative Treatment</i>  Page 114
12:15-13:30	<b>CLOSING CEREMONY</b>					

Bramante 6-7	Bramante 8-9	Tintoretto 2
<i>Free Papers</i> <b>Total Knee Arthroplasty III</b>  Page 115	<i>Free Papers</i> <b>Hand &amp; Rheuma- tology</b>  Page 117	<i>Short Free Papers</i> <b>Sports Medicine</b>  Page 120

*Break*

<i>Free Papers</i> <b>Total Knee Arthroplasty IV</b>  Page 116	<i>Free Papers</i> <b>Pain Management</b>  Page 119	<i>Short Free Papers</i> <b>Trauma</b>  Page 121
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## Saturday, 10 September

### Michelangelo 3

08:30 - 10:00

#### *Invited Lecture & Free Papers – Paediatrics I*

*Moderators:*

Clóris KESSLER (BRAZIL), Carlo MILANI (BRAZIL)

**Invited Speaker**

**ADVANCES IN PAEDIATRIC ORTHOPAEDICS: ITALIAN CONTRIBUTION**  
Cosimo TUDISCO (ITALY)

- 43157 THE TRIGONOMETRIC PLANNING METHOD FOR FEMORAL LENGTHENING ALONG THE ANATOMICAL AXIS WITH OR WITHOUT DEFORMITY CORRECTION (A NEW METHOD)**  
Sherif GALAL (EGYPT)
- 43409 GAIT ANALYSIS OF ACHONDROPLASTIC PATIENTS WHO HAVE UNDERGONE LOWER LIMB LENGTHENING USING THE ILIZAROV METHOD: A 5-19-YEAR FOLLOW-UP STUDY**  
Maria STEFANO, Nikolaos DARRAS, Dimitrios PASPARAKIS (GREECE)
- 42646 DEGA OSTEOTOMY FOR THE MANAGEMENT OF DEVELOPMENTAL DYSPLASIA OF THE HIP IN CHILDREN AGED 2-8 YEARS: RESULTS OF 58 CONSECUTIVE OSTEOTOMIES AFTER 13-25 YEARS OF FOLLOW-UP**  
Mohamed EL-SAYED (EGYPT)
- 44695 POSTERIOR ROTATIONAL FEMUR OSTEOTOMY IN TREATMENT OF II TYPE KALAMCHI DEFORMITIES IN CHILDREN AFTER AVN**  
Viachaslau BRADKO, Aleh SAKALOUSKI (BELARUS)
- 43609 COMPARING THE STRENGTH OF HIP SPICA CASTS APPLIED WITH TWO DIFFERENT TECHNIQUES**  
Aik SAW, Kwong-Lee WAN, Rukmanikanthan SHANMUGAM, Kun-Yun LEE (MALAYSIA)
- 43131 DISTAL FEMORAL EXTENSION OSTEOTOMY & PATELLAR TENDON ADVANCEMENT IN THE MANAGEMENT OF CROUCH GAIT IN CEREBRAL PALSY**  
Alaric AROOJIS, Maulik PATEL (INDIA)
- 44449 RISK FACTORS OF HIP LUXATION IN CEREBRAL PALSY**  
Yevhen HOLIUK, Victor FILIPCHUK, Myroslav KABATSII, Mykhailo MELNYK (UKRAINE)
- 44561 GAIT PATTERN RECOGNITION IN CEREBRAL PALSY PATIENTS USING NEURAL NETWORK MODELLING**  
Jan MUHAMMAD (UNITED KINGDOM)

- 43450 MODIFIED GRICE-GREEN SUBTALAR ARTHRODESIS PERFORMED USING A PARTIAL FIBULAR GRAFT YIELDS SATISFACTORY RESULTS IN PATIENTS WITH CEREBRAL PALSY**  
Melih GÜVEN, Abbas TOKYAY, Budak AKMAN, Ugur SAYLI, Faik ALTINTAS (TURKEY)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Paediatrics II*

*Moderators:*

Matthew DOBBS (UNITED STATES), Ken KUO (TAIWAN)

- 45213 OUTCOME OF HUMERAL SHAFT FRACTURE IN CHILDREN AND ADOLESCENTS: COMPARISON BETWEEN NON-OPERATIVE TREATMENT (DESAULT'S BANDAGE), EXTERNAL FIXATION AND ELASTIC STABLE INTRAMEDULLARY NAILING**  
Lorenza MARENGO<sup>1</sup>, Federico CANAVESE<sup>2</sup>, Carlo ORIGO<sup>1</sup>, Mattia CRAVINO<sup>1</sup>, Matteo PAONESSA<sup>1</sup>, Vanessa GIACOMETTI<sup>1</sup>, Antonio ANDREACCHIO<sup>1</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(FRANCE)
- 43844 OPERATIVE TREATMENT OF MISSED TYPE I MONTEGGIA FRACTURE OF CHILDREN**  
Ziming ZHANG, Qiu CHEN, Qing FAN, Hai LI (CHINA)
- 44361 MANAGING DISPLACED PAEDIATRIC SUPRACONDYLAR FRACTURES IN A DISTRICT GENERAL HOSPITAL: IS REFERRAL TO SPECIALISED CENTRES NECESSARY?**  
Chukwudi UZOHO, Dimitrios TSEKES, Jagwant SINGH, Daniel ROSSOUW, Sabrina BEZZAA (UNITED KINGDOM)
- 44416 EARLY VERSUS LATE HIP SPICA APPLICATION FOR PAEDIATRIC FEMORAL SHAFT FRACTURES**  
Manaf YOUNIS, Talal IBRAHIM (QATAR)
- 45190 ELASTIC STABLE INTRAMEDULLARY NAILING IN DISPLACED FEMUR FRACTURE: RESULTS AND COMPLICATIONS IN CHILDREN WEIGHING 50 KG (110 LB) OR MORE**  
Antonio ANDREACCHIO<sup>1</sup>, Lorenza MARENGO<sup>2</sup>, Matteo PAONESSA<sup>1</sup>, Marie ROUSSET<sup>2</sup>, Antoine SAMBA<sup>2</sup>, Federico CANAVESE<sup>2</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(FRANCE)
- 43573 LONG-TERM SEQUELAE OF NEONATAL SEPTIC ARTHRITIS OF THE SHOULDER**  
Rafael PORTELA DA SILVA, Rita GRAZINA, Fabíola FERREIRA, Andreia FERREIRA, Domingues RODRIGUES, Mafalda SANTOS (PORTUGAL)

- 44928 NATURAL HISTORY OF 200 RACHITIC KNEE DEFORMITIES**  
Jatin PRAKASH, Anil MEHTANI (INDIA)
- 44381 INTRAMEDULLARY SKELETAL KINETIC DISTRACTOR: RETROSPECTIVE SERIES**  
Vishal KUMAR, Andrew GAFFEY, Donald BUCHANAN, Sachin KUMAR (UNITED KINGDOM)
- 44973 LIMB RECONSTRUCTION PROCEDURES IN TIBIAL HEMIMELIA**  
M. Mofakhkharul BARI (BANGLADESH)
- 42993 LIMB-LENGTHENING FOR DEFORMITIES OF THE FOREARM IN MULTIPLE EXOSTOSES**  
Hiromasa FUJII, Kanya HONOKI, Akira KIDO, Shinji TSUKAMOTO, Shingo KISHI, Yasuhito TANAKA (JAPAN)
- 42840 GUIDED GROWTH AS A PART OF THE COMPLEX MANAGEMENT OF KNEE FLEXION CONTRACTURES IN PATIENTS WITH AMC**  
Svetlana TROFIMOVA, Alexey BAINBURASHVILI, Dmitriy BUCKLAEV, Nikita KHUSAINOV (RUSSIA)

12:15 - 13:30

**CLOSING CEREMONY**



**Saturday, 10 September**  
**Caravaggio 1-2**

08:30 - 10:00

**Free Papers – Spine I**

*Moderators:*

Thamer HAMDAN (IRAQ), Leo MASSARI (ITALY)

- 43467 CAN HALO GRAVITY TRACTION (HGT) WITH POSTERIOR SPINAL FUSION AND POSTERIOR COLUMN OSTEOTOMY (PCO) AND RIB RESECTIONS ACHIEVE SIMILAR AND SAFER CORRECTION OF COMPLEX SPINE DEFORMITY AS VERTEBRAL COLUMN RESECTION (VCR)**  
Oheneba BOACHIE-ADJE<sup>1</sup>, Jenny AYAMGA<sup>1</sup>, Feran PELLISE<sup>2</sup>, Cristina SACRAMENTO<sup>2</sup>, Theresa YIRERONG<sup>1</sup>, Irene WULFF<sup>1</sup>, Harry AKOTO<sup>1</sup>, Focos Research Group<sup>1</sup>  
<sup>1</sup>(GHANA), <sup>2</sup>(SPAIN)

- 44460 REDUCTION OF CONGENITAL KYPHOSCOLIOSIS BY AN ANTERIOR CONCAVE OSTEOTOMY AND POSTERIOR INSTRUMENTATION**  
Mourad HAMIDANI<sup>1</sup>, Lotfi MILADI<sup>2</sup>, Amine TOUHAMI<sup>1</sup>  
<sup>1</sup>(ALGERIA), <sup>2</sup>(FRANCE)
- 44722 NON DISCOGENIC SCIATICA SYNDROME: A REPORT ON 35 PATIENTS**  
Thamer HAMDAN (IRAQ)
- 43077 ANALYSIS OF FACTORS AFFECTING POSTOPERATIVE LOSS OF REDUCTION IN UNSTABLE THORACOLUMBAR FRACTURES AFTER PERFORMED POSTERIOR SURGERY**  
Jaewan SOH, Si John HONG (SOUTH KOREA)
- 45672 AN EVALUATION OF THE FUNCTIONAL AND RADIOLOGICAL RESULTS OF PERCUTANEOUS VERTEBROPLASTY VERSUS CONSERVATIVE TREATMENT FOR ACUTE SYMPTOMATIC OSTEOPOROTIC SPINAL FRACTURES**  
Huseyin BALKARLI, Mesut KILIC, Ayse BALKARLI, Murat ERDOGAN (TURKEY)
- 44075 EVALUATION OF CERVICAL CORD COMPRESSION ON T2-WEIGHTED SEQUENCES IN PATIENTS WITH CERVICAL SPONDYLOTIC MYELOPATHY USING FLEXION-EXTENSION MRI**  
Areena D'SOUZA, Harvinder CHHABRA, Kedar PHADKE (INDIA)
- 43512 THE OCCURRENCE FREQUENCY AND RISK FACTORS FOR DELIRIUM AFTER SPINAL SURGERY IN ELDERLY PATIENTS**  
Nobuo YAMAMOTO, Hiroyuki YASUDA, Sadahiko KONISHI, Shunpei HAMA, Ken IIDA, Hiroaki NAKAMURA (JAPAN)
- 45355 COMPARISON OF STAGED RECONSTRUCTION WITH EXTREME LATERAL INTERBODY FUSION (XLIF) AND MULTILEVEL CORRECTIVE PLIF/TLIF WITH PONTE OSTEOTOMY FOR ADULT THORACOLUMBAR KYPHOSCOLIOTIC DEFORMITY**  
Hidetoshi YAMAGUCHI, Tokumi KANEMURA, Kotaro SATAKE, Naoki SEGI, Jun OUCHIDA (JAPAN)
- 43747 MEP IN PREVENTION OF MOTOR-DEFICIT DURING PAEDIATRIC SPINE SURGERIES**  
Mirza BISCEVIC, Amir ZJAKIC, Mahir MORO, Severin ZUJO (BOSNIA)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Spine II*

*Moderators:*

Kedar PHADKE (INDIA), Carlo RUOSI (ITALY)

- 44656 SEGMENTAL CORRECTION IN SURGICAL TREATMENT OF IDIOPATHIC SCOLIOSIS IN ADOLESCENTS**  
Muratjan SALIEV, Zafar KHOLLOV, Sanjar KADIROV, Olim JABBARBERGENOV, Shavkat RAVSHANOV (UZBEKISTAN)
- 45269 FORMATION FEATURES OF ANATOMIC TYPE IN PATIENTS WITH COMBINED SCOLIOSIS SPINE DEFORMITIES**  
Darya TESAKOVA, Alexander BELETSKY, Dmitry TESAKOV, Leonid LOMAT, Alexandr MUHLA (BELARUS)
- 45105 FACTORS INFLUENCING OUTCOMES DURING AND POST HOSPITALISATION IN CERVICAL SPINE INJURIES IN YOUNG AND OLD ELDERLY**  
Kedar PHADKE, Srinivasa MOOLYA, Areena D'SOUZA, Harvinder CHHABRA (INDIA)
- 43118 EVALUATION OF INFLUENCING FACTORS FOR BLOOD LOSS AND TRANSFUSION REQUIREMENT IN SPINAL TUMOUR SURGERY**  
Karthikeyan MAHARAJAN, Aye Sandar ZAW, Naresh KUMAR (SINGAPORE)
- 44559 EFFECTIVENESS OF TRAINING OF PEDICLE SCREW INSERTION TECHNIQUE USING A REAL-SIZE 3D PRINTED MODEL FOR REDUCTION OF LEARNING CURVE**  
Kook Jin CHUNG, Hyong Nyun KIM (SOUTH KOREA)
- 45147 ANTERIOR CERVICAL DECOMPRESSION, FUSION AND STABILISATION BY CERVICAL PLATE & SCREW FOR TRAUMATIC LOWER CERVICAL SPINAL INJURY – A SERIES OF 78 PATIENTS**  
Sharif Ahmed JONAYED, Shah ALAM (BANGLADESH)
- 43508 RETROSPECTIVE EVALUATION OF INDICATIONS AND OUTCOME OF SURGERY IN TB SPINE**  
Anil Kumar JAIN, Ankur JAIN, Mahi Pal SINGH (INDIA)
- 44514 SCHEUERMANN KYPHOSIS: COMPARISON OF TWO STAGE ANTERIOR/POSTERIOR FUSION AND POSTERIOR FUSION ONLY**  
Darren LUI, Hai Ming YU, Adam BENTON, Jessica OSBORN, Khoyratty SARA, Arash AFPASHAD, Sean MOLLOY, Alexander GIBSON (UNITED KINGDOM)
- 42799 AN INVESTIGATION INTO THE PREVALENCE AND CORRELATION OF SPINE AND HIP PAIN IN ATHLETES**  
Adad BARANTO (SWEDEN)



## Saturday, 10 September

### Caravaggio 3-4

#### 08:30 - 10:00 **Free Papers – Hip Arthroplasty II**

*Moderators:*

Filippo CASELLA (ITALY), Philippe HERNIGOU (FRANCE)

- 45682 PATIENT-SPECIFIC INSTRUMENTATION LEADS TO ACCURATE ACETABULAR COMPONENT PLACEMENT IN TOTAL HIP ARTHROPLASTY**  
Steve MCMAHON, L. SPENCER-GARDNER, Jim PIERREPONT, Jon BARE, Andrew SHIMMIN (AUSTRALIA)
- 43529 HIP DISLOCATION PREVENTION IN OBESE PATIENTS: DUAL MOBILITY LINER AND CONSTRAINED LINERS VERSUS PREOPERATIVE BARIATRIC SURGERY**  
Philippe HERNIGOU, Charles-Henri FLOUZAT LACHANIETTE (FRANCE)
- 43922 IMPACTION BONE GRAFTING IN REVISION HIP ARTHROPLASTY FOR ASEPTIC LOOSENING: DOES STEM LENGTH REALLY MATTER?**  
Akash SARAOGI, Hajime NAGAI, Naveen LOKIKERE, Paul SINEY, Peter KAY, Videsh RAUT, Bodo PURBACH (UNITED KINGDOM)
- 43588 DUAL MOBILITY CUP FOR PREVENTION OF EARLY TOTAL HIP ARTHROPLASTY DISLOCATION IN PATIENTS WITH NEUROLOGICAL DISORDERS**  
Haytham ABDELAZIM (EGYPT)
- 44183 TOTAL HIP ARTHROPLASTY WITH TRIPODAL DUAL MOBILITY SOCKET TO PREVENT DISLOCATION – A PROSPECTIVE FOLLOW-UP OF 303 HIPS**  
Thomas NERI, Remi PHILIPPOT, Bertrand BOYER, Frederic FARIZON (FRANCE)
- 43065 SURVIVAL OF A SECOND-GENERATION DUAL MOBILITY CUP AFTER 14 YEARS: PROSPECTIVE STUDY OF 490 IMPLANTS**  
Jean Marc PUCH, Loys DESCAMPS, Guy DERHI (FRANCE)
- 42868 OUTCOMES OF CERAMIC BEARINGS AFTER REVISION THA IN THE MEDICARE POPULATION**  
Steven KURTZ, Edmund LAU, Doruk BAYKAL, Bryan SPRINGER (UNITED STATES)
- 43216 SYMPTOMATIC IMPAIRED FIXATION IN HIGH OFFSET FEMORAL STEMS: INCIDENCE AND RISK FACTORS**  
Philippe CHAUDIER, Anthony VISTE, Olivier CANTIN, Romain DESMARCHELIER, Michel Henry FESSY, Cyril COURTIN (FRANCE)

**44145 NOISE AFTER CERAMIC-ON-CERAMIC TOTAL HIP ARTHROPLASTY: DOES COMPUTER NAVIGATION HELP REDUCE THE INCIDENCE?**  
Kamal DEEP, Siddharth SHAH, Chai SIRAMANAKUL, Vivek MAHAJAN, Frederic PICARD, David ALLEN, Joseph BAINES, Angela DEAKIN (UNITED KINGDOM)

**43329 MID-TERM RESULTS OF A CONSECUTIVE SERIES OF 153 BIOLOX® DELTA CERAMIC-ON-CERAMIC TOTAL HIP ARTHROPLASTY**  
Tanguy MOUTON, Romain DESMARCHELIER, Anthony VISTE, Michel Henri FESSY (FRANCE)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Hip Arthroplasty III*

*Moderators:*

Jacques Henri CATON (FRANCE), Gianluca CINOTTI (ITALY)

**43833 TOTAL HIP ARTHROPLASTY IN SICKLE CELL ANEMIA**  
Pedro GARCIA, Pedro SOUSA FILHO, Osvaldo BITU, Plínio GARCIA, Osamu KIMURA, Marco FERNANDES (BRAZIL)

**45311 SMOKING IS ASSOCIATED WITH WORSE PATIENT-REPORTED OUTCOMES AFTER TOTAL HIP REPLACEMENT**  
Ola ROLFSON, Szilard NEMES, Olle SVENSSON, Göran GARELLICK, Maziar MOHADDES (SWEDEN)

**43321 LONG-TERM CLINICAL AND RADIOGRAPHIC OUTCOMES OF A TITANIUM PROXIMALLY POROUS-COATED TAPERED STEM IN PRIMARY HIP ARTHROPLASTY: A MINIMUM OF 15-YEAR FOLLOW-UP**  
Matteo STICOZZI<sup>1</sup>, Ivan DE MARTINO<sup>2</sup>, Francesco LA CAMERA<sup>1</sup>, Rocco D'APOLITO<sup>1</sup>, Olimpio GALASSO<sup>1</sup>, Giorgio GASPARINI<sup>1</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(UNITED STATES)

**44067 SAGITTAL ALIGNMENT OF SHORT-TAPERED COMPARED TO STANDARD TAPERED FEMORAL STEM**  
Abdulrahman ALGARNI (SAUDI ARABIA)

**45350 HIP ARTHROPLASTY IN CHILDREN WITH STAGE III COXARTHROSIS**  
Vladimir BASKOV, Alexey BAINDURASHVILI, Valentin NEVEROV (RUSSIA)

**43348 VITAMIN E STABILISED POLYETHYLENES FOR TOTAL KNEE ARTHROPLASTY EVALUATED UNDER HIGHLY DEMANDING DAILY ACTIVITIES IN VITRO**  
Thomas Michael GRUPP, Bernhard FRITZ, Ines KUTZNER, Georg BERGMANN, Jens SCHWIESAU (GERMANY)

- 46032** **BILATERAL TOTAL HIP ARTHROPLASTY IN FEMORAL HEAD AVASCULAR NECROSIS: FUNCTIONAL OUTCOMES AND COMPLICATIONS**  
Afshin TAHERIAZAM, Amin SAEIDINIA, Farshad SAFDARI (IRAN)
- 44952** **QUALITY OF LIFE FOLLOWING TOTAL HIP ARTHROPLASTY IN PATIENTS IN NORTH INDIA WITH ACETABULAR FRACTURES, PREVIOUSLY MANAGED BY OPEN REDUCTION AND INTERNAL FIXATION – OUR EXPERIENCE AT A TERTIARY CARE HOSPITAL**  
Prasoon KUMAR, Ramesh Kumar SEN (INDIA)
- 44112** **THE ROLE OF PREOPERATIVE ASYMPTOMATIC BACTERIURIA IN THE DEVELOPMENT OF PERIPROSTHETIC JOINT INFECTION OF THE HIP**  
Gábor SKALICZKI, Annamária PÁL (HUNGARY)
- 45137** **INFLUENCE OF PASSIVE SMOKING ON THE DEVELOPMENT OF LEGG-CALVE-PERTHES: META-ANALYSIS**  
Fernando GARCIA FILHO, Lucas CORTIZO GARCIA, Marcos ALMEIDA MATOS, Maria Beatriz CORTIZO GARCIA, Fernanda CORTIZO GARCIA, Fabio MATOS (BRAZIL)



## Saturday, 10 September

### Caravaggio 5-6

08:30 - 10:00

#### *Invited Lecture & Free Papers – Upper Extremity Trauma III & Miscellaneous*

*Moderators:*

Marco SARMENTO (PORTUGAL), Michele Attilio ROSA (ITALY)

*Invited Speaker*

#### **OPERATIVE TREATMENT OF DISPLACED MID-SHAFT CLAVICULAR FRACTURES**

Jamal ASHRAF (INDIA)

**44065** **FUNCTIONAL OUTCOME OF ELBOW FOLLOWING EXCISION OF COMMINUTED CAPITELLAR FRACTURES**

Karan DOSHI, M. Shantharam SHETTY, M. Ajith KUMAR (INDIA)

**44004** **DUAL LOCKING PLATE OVER PROXIMAL HUMERUS FRACTURES WITH SEVERE METAPHYSEAL COMMINATION**

Sungwook CHOI, Gyeong-Min KIM, Taejung KIM, Yongsuk KWON, Hyun Seong KANG (SOUTH KOREA)

**43841** **ANTEROMEDIAL CORONOID PROCESS FIXATION USING A FIGURE-EIGHT SUTURE PATTERN WITH KIRSCHNER WIRES**

Longxiang SHEN, Xingang YU, Biao ZHONG, Jian DING (CHINA)

- 43185 COMPLICATION FOLLOWING SURGICAL TREATMENT OF PROXIMAL HUMERUS FRACTURE FIXATION – THREE YEARS’ FOLLOW-UP**  
Ali ABDELWAHAB, Ahmed NAGY, Tobias BARING (UNITED KINGDOM)
- 43059 NON-OPERATIVE MANAGEMENT OF UNRECONSTRUCTIBLE DISTAL HUMERUS FRACTURES IN THE ELDERLY**  
Timothy BATTEN, Claire SIN-HIDGE, Mark BRINSDEN, Paul GUYVER (UNITED KINGDOM)
- 42754 MANAGEMENT OF DISPLACED DIAPHYSEAL FRACTURES OF HUMERUS BY INTRAMEDULLARY INTERTERLOCKING (IMIL) AND LCDCP – A COMPARATIVE STUDY**  
Sajeev SHEKHAR, Veer Abhishek GOUD (INDIA)
- 43368 PHOSPHATE BETA-TRICALCIUM MONOBLOCK AS AN ADJUVANT ON PROXIMAL HUMERAL FRACTURES**  
Marco SARMENTO, Jorge ARVELA, Samuel MARTINS, Jacinto MONTEIRO (PORTUGAL)
- 42716 SURGICAL STRATEGY FOR THE TREATMENT OF DISTAL RADIUS FRACTURES**  
Boris MAXIMOV, Pavel SHANTRUKOV, Nikolay VEDERNIKOV (RUSSIA)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Lower Extremity Trauma III & Miscellaneous*

*Moderators:*

Francesco BIGGI (ITALY), NN

- 43975 POSTEROLATERAL APPROACH FOR TREATMENT OF POSTERIOR MALLEOLUS FRACTURE OF THE ANKLE – AN ANATOMICAL AND SAFE APPROACH**  
Romeu PINHO, Marta GOMES, António TORRES (PORTUGAL)
- 43583 EXTERNAL FIXATOR AS A PRIMARY AND DEFINITIVE TREATMENT FOR OPEN TIBIAL FRACTURES – SYRIAN WAR EXPERIENCE**  
Abduljabbar ALHAMMOUD<sup>1</sup>, Mahmood ARBASH<sup>2</sup>, Bakry MAAZ<sup>1</sup>  
<sup>1</sup>(SYRIA), <sup>2</sup>(QATAR)
- 43453 COMPLICATIONS FOLLOWING UNILATERAL FASCIOTOMY FOR COMPARTMENT SYNDROME OF THE LOWER LEG**  
Arnold SUDA, Christian ABT, Oliver BISCHEL, Marco TINELLI (GERMANY)
- 44738 CLINICAL BENEFIT OF ASIATIC GAMMA 3 NAIL IN THE TREATMENT OF TROCHANTERIC FRACTURES IN KOREA**  
Jihyo HWANG, Hwang JIHYO, Jehyun YOO (SOUTH KOREA)

- 44317 A NEW ELASTIC MINI-INVASIVE OSTEOSYNTHESIS FOR PETROCHANTERIC FRACTURES**  
Paolo PALOMBI, Andrea PALOMBI (ITALY)
- 42831 FACTORS INFLUENCING OUTCOME IN IPSILATERAL FEMUR NECK AND FEMUR SHAFT FRACTURES – AN ANALYSIS OF 35 CASES**  
Bhaskara Kanakeshwar RAJA, Arun C. KAMAL, J. DHEENADHAYALAN, Shanmuganathan RAJASEKARAN (INDIA)
- 43995 MANAGEMENT AND OUTCOMES OF OPEN TIBIAL FRACTURES AT A UK LEVEL 1 ADULT TRAUMA CENTRE**  
Yuen CHAN, Badri NARAYAN, Durai NAYAGAM, Nikos GIOTAKIS (UNITED KINGDOM)
- 44162 ASPIRATION PNEUMONIA POST HIP FRACTURE IN AN ELDERLY POPULATION: A DEADLY COMPLICATION**  
Ahmed FADULELMOLA, Akmal TURAEV, Diraviyam BALASUBRAMANIAN (UNITED KINGDOM)
- 44251 AN AUDIT OF POSTOPERATIVE BLOOD TRANSFUSION IN PATIENTS WITH FRACTURED NECK OF FEMUR IN A UK DISTRICT GENERAL HOSPITAL**  
Oliver LLEWELLYN, Joshua NADIMI, Julie YATES, Jerome MCCANN (UNITED KINGDOM)



**Saturday, 10 September**

**Bramante 3**

08:30 - 10:00

*Symposium & Free Papers – Road Trauma*

*Moderators:*

Guenter LOB (GERMANY), Shanmuganathan RAJASEKARAN (INDIA)

**ADVOCACY FOR ROAD SAFETY – INDIAN EXPERIENCE**

Shanmuganathan RAJASEKARAN (INDIA)

**POLYTRAUMA IN THE ELDERLY: WHAT INFORMATION CAN WE GET FROM THE GERMAN?**

NN

**CHILDREN NEED OUR PROTECTION – POLYTRAUMA IN CHILDREN: WHAT MAKES THE DIFFERENCE?**

Guenter LOB (GERMANY)

- 44443 PATTERN OF MORTALITY IN SEVERELY INJURED TRAUMA PATIENTS: A SYSTEMATIC REVIEW OF AUTOPSY STUDIES**  
Roman PFEIFER, Michel TEUBEN, Hagen ANDRUSZKOW, Frank HILDEBRAND, Hans-Christoph PAPE (GERMANY)
- 43658 STUDY OF STERNAL FRACTURES: ASSOCIATION WITH VERTEBRAL BODY FRACTURES**  
Ken NISHIMURA, Hiroyuki KANAI, Hidenobu FUJITA, Hiroyuki OKADA (JAPAN)
- 45122 ROLE OF UNILATERAL EXTERNAL FIXATION AS A PRIMARY AND DEFINITIVE TREATMENT FOR OPEN TIBIA FRACTURES**  
Devendra AGRAHARAM, S.V. Kartheek TELAGAREDDY, Dhayalan DHEENU (INDIA)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Multiligament Knee Injuries*

*Moderators:*

Francesco FALEZ (ITALY), Wai Pan YAU (HONG KONG)

- 44323 BIOMECHANICAL STUDY OF STRENGTH AND STIFFNESS OF THE KNEE ANTEROLATERAL LIGAMENT**  
Camilo HELITO, Marcelo BONADIO, João ROZAS, Joao WEY, Tulio CARDOSO, Jose PECORA, Gilberto CAMANHO, Marco DEMANGE (BRAZIL)
- 45576 ANTEROLATERAL LIGAMENT OF THE KNEE: CADAVERIC STUDY OF ANATOMICAL VARIATIONS**  
Aleksandar MUNJIN, Diego VALIENTE, Roberto ABUSLEME, Alvaro VALENZUELA, Marco VALENZUELA (CHILE)
- 42856 THE IMPACT OF SOCIOECONOMIC STATUS ON CHOICE OF TREATMENT FOR PATIENTS WITH CRUCIATE LIGAMENT INJURIES IN THE KNEE: A POPULATION-BASED COHORT STUDY**  
Alejandro MARCANO<sup>1</sup>, Richard NORDENVALL<sup>1</sup>, Johanna ADAMI<sup>1</sup>, Mårten PALME<sup>1</sup>, Ville MATTILA<sup>2</sup>, Shahram BAHMANYAR<sup>1</sup>, Li FELLÄNDER-TSAI<sup>1</sup>  
<sup>1</sup>(SWEDEN), <sup>2</sup>(FINLAND)
- 44124 COMBINED ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION AND ANTERIOR-LATERAL LIGAMENT RECONSTRUCTION**  
Wai Pan YAU (HONG KONG)

- 43615 ARTHROSCOPIC REDUCTION AND INTERNAL FIXATION OF POSTERIOR CRUCIATE LIGAMENT AVULSION USING AN ADJUSTABLE-LENGTH LOOP DEVICE**  
Ryuichiro AKAGI, Yuta MURAMATSU, Shunsuke MUKOYAMA, Hiroshi SUGIYAMA, Takahiro ENOMOTO, Yusuke SATO, Ryosuke NAKAGAWA, Satoshi YAMAGUCHI, Takahisa SASHO (JAPAN)
- 43669 MID-TERM OUTCOME OF BPTB GRAFT, FREE STG GRAFT AND STG GRAFT WITH PRESERVED INSERTIONS IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION SURGERY IN PROFESSIONAL SPORTSPERSONS: A PROSPECTIVE RANDOMISED CONTROL STUDY**  
Ravi GUPTA, Anil KAPOOR, Sidharth AGGARWAL, Ashish CHHABRA, Anubhav MALHOTRA, Munish SOOD, Gladson David MASHI, Sudhir GARG (INDIA)
- 42854 EFFICACY OF THE STAR EXCURSION BALANCE TESTS IN DETECTING POSTURAL DEFICITS IN ANTERIOR CRUCIATE LIGAMENT DEFICIENCY**  
Atul MAHAJAN, Himanshu KATARIA (INDIA)
- 44195 PREVALENCE AND PATTERNS OF INJURIES OF ANTEROLATERAL LIGAMENT IN ACUTE ACL TEARS**  
Andrea FERRETTI, Edoardo MONACO, Mattia FABBRI, Antonio PONZO, Andrea REDLER, Angelo DE CARLI (ITALY)



**Saturday, 10 September**

**Bramante 4**

08:30 - 10:00 *Free Papers – Foot & Ankle*

*Moderators:*

Francesco ALBO (ITALY), Henry Siu Fai YIP (HONG KONG)

- 42517 USE OF THE TENDOSCOPIC MODIFIED DAS DE PROCEDURE FOR RECURRENT PERONEAL TENDON DISLOCATION**  
Akinobu NISHIMURA, Shigeto NAKAZORA, Naoya ITO, Aki FUKUDA, Ko KATO, Akihiro SUDO (JAPAN)
- 45559 USE OF 2 K-WIRES VS. 1 K-WIRE FOR FIXATION OF PIPJ FIXATION**  
Turab SYED, Yousuf SABAH, Richard HARDING, Aureola TONG, Ben HICKEY, Anthony PERERA (UNITED KINGDOM)

- 42967 CORRECTION OF FLATFOOT DEFORMITY BY DOUBLE JOINT ARTHRODESIS THROUGH SINGLE MEDIAL APPROACH**  
Guangrong YU, Mingzhu ZHANG (CHINA)
- 43895 THE LEARNING CURVE FOR TOTAL ANKLE REPLACEMENT USING A MOBILE BEARING PROSTHESIS**  
Federico USUELLI, Luigi MANZI, Cristian INDINO, Camilla MACCARIO (ITALY)
- 44608 CONGENITAL CLUBFOOT IN TOGO: FIVE-YEAR RESULTS OF TREATMENT USING THE PONSETI METHOD ON A NATIONAL SCALE**  
Tchaa Hodabalo TOWOEZIM<sup>1</sup>, Kondo BIGNANDI<sup>1</sup>, Virginie AMEGAN<sup>1</sup>, Linda HANSEN<sup>2</sup>  
<sup>1</sup>(TOGO), <sup>2</sup>(TANZANIA)
- 43574 SUPRAMALLEOLAR OSTEOTOMY FOR TREATMENT OF ASYMMETRIC ANKLE OSTEOARTHRITIS**  
Alexandra SOPU, Seyed Ashgar ALI (UNITED KINGDOM)
- 43561 AGE OF RECURRENCE IN IDIOPATHIC CLUBFOOT TREATED WITH THE PONSETI METHOD**  
Alice CHU, Rachel GOLDSTEIN, Debra SALA, Wallace LEHMAN (UNITED STATES)
- 43629 MANAGEMENT AND EVALUATION OF CLUBFEET WITH ULTRASONOGRAPHIC METHOD IN INDIAN PAEDIATRIC POPULATION: A PROSPECTIVE STUDY**  
Pankaj Kumar SHARMA, Rishi RAJ, D.K. SINHA (INDIA)
- 44452 MINIMALLY INVASIVE LATERAL LIGAMENTS RECONSTRUCTION WITH AUTOGRAFT IN PATIENTS WITH CHRONIC ANKLE INSTABILITY**  
Cristian INDINO, Camilla MACCARIO, Miriam GRASSI, Federico USUELLI (ITALY)
- 42823 ULTRASONOGRAPHIC EVALUATION OF ENTHESEAL THICKNESS IN THE PLANTAR APONEUROSIS AND THE ACHILLES TENDON WITHIN A COHORT OF JAPANESE PATIENTS WITH HEEL ENTHESITIS**  
Tomonao CHIKAMA, Kenta KAMO (JAPAN)
- 43865 TREATMENT OF DIABETIC FOOT: FROM CONSERVATIVE TREATMENT TO MINOR AND MAJOR AMPUTATIONS**  
Michele Attilio ROSA, David Joaquin ORTOLÀ MORALES, Luca LA VERDE, Teresa MALARA, Domenico FENGA (ITALY)

10:00 - 10:30 *Break*

*Moderators:*

Khaled EMARA (EGYPT), Joshua HYMAN (UNITED STATES)

- 44643 DEMOGRAPHIC AND CLINICAL PROFILE ANALYSIS IN SYMPTOMATIC JOINT HYPERMOBILITY SYNDROME IN A TERTIARY CARE INSTITUTION OF EASTERN INDIA**  
Satya Ranjan PATRA, Divya MADHARIA, Ankit MADHARIA, Anmol ARORA, Saswat SAMANT (INDIA)
- 45338 CONSERVATIVE TREATMENT OF TUBERCULAR PERIPROSTHETIC INFECTION IN A PATIENT WITH ANKYLOSING SPONDYLITIS**  
Naman WAHAL, Rajesh MALHOTRA, Deepak GAUTAM (INDIA)
- 43184 PAIN REDUCTION IN SEVERE OSTEOARTHRITIS OF THE KNEE WITH INTRA-ARTICULAR ACP**  
Michael BORSKY (SWITZERLAND)
- 42918 PROSPECTIVE STUDY OF EFFECTIVENESS OF PLATELET RICH PLASMA IN THE TREATMENT OF EARLY OSTEOARTHRITIS OF THE KNEE**  
Siddharth SHARMA, Virender GAUTAM (INDIA)
- 43592 RIGO SYSTEM CHENEAU BRACE PROVIDES BETTER IN-BRACE CORRECTION THAN TRADITIONAL TLSO BRACE**  
Joshua HYMAN, Michael VITALE, Jennifer HOPE, Hiroko MATSUMOTO, Nicholas FEINBERG, Hasani SWINDELL, Julie YOSHIMACHI, David ROYE (UNITED STATES)
- 43155 OUTCOME OF EARLY SURGICAL MANAGEMENT VERSUS CONSERVATIVE MANAGEMENT AFTER ACUTE THORACOLUMBAR INJURIES OF SPINE IN A TERTIARY CARE HOSPITAL OF NORTH INDIA**  
Anoop Raj SINGH, Ghanshyam Narayan KHARE, Narender KUMAR (INDIA)
- 42867 TREATMENT OF CARPAL TUNNEL SYNDROME WITH PALMITOYLETHANOLAMIDE (PEA)**  
Jordi FAIG-MARTÍ, Adriana MARTÍNEZ-CATASÚS (SPAIN)



## Saturday, 10 September

### Bramante 6-7

08:30 - 10:00

#### *Free Papers – Total Knee Arthroplasty III*

*Moderators:*

S.M. Javad MORTAZAVI (IRAN), Valerio SCIARRETTA (ITALY)

- 43839** **PATELLAR HEIGHT ASSESSMENT IN TKA: A NEW METHOD**  
Jacques Henri CATON, Jean Louis PRUDHON, Regis VERDIER (FRANCE)
- 43873** **HOW PATELLA HEIGHT IS MODIFIED AFTER TOTAL KNEE ARTHROPLASTY?**  
Jean Louis PRUDHON, Jacques Henri CATON, Regis VERDIER (FRANCE)
- 43892** **LONG-TERM STUDY WITH TISSUE SPARING SURGERY AND COMPUTER ASSISTANCE IN KNEE REPLACEMENT: BI-UNI VS. TOTAL AT 12 YEARS' MINIMUM FOLLOW-UP STUDY**  
Norberto CONFALONIERI, Alfonso MANZOTTI (ITALY)
- 45215** **PATELLA RECONSTRUCTION – AN IMPORTANT STEP IN PATELLECTOMISED CANDIDATE UNDERGOING A PRIMARY TOTAL KNEE ARTHROPLASTY**  
Amit CHAUHAN, Shanmugam MAHESWARAN (UNITED KINGDOM)
- 43424** **THE IMPACT OF INTRAVENOUS TRANEXAMIC ACID (TXA) IN REDUCING BLOOD LOSS AFTER TOTAL KNEE ARTHROPLASTY (TKA) – A CASE-CONTROL ANALYSIS**  
Marta SILVA, João RAPOSO, Pedro SERRANO, Pedro NEVES, Paula SÁ, Filipa PEREIRA, Ricardo SOUSA (PORTUGAL)
- 43823** **INTRA-ARTICULAR TRANEXAMIC ACID IN TOTAL KNEE ARTHROPLASTY: ZERO BLOOD TRANSFUSION, MARKED DECREASE IN COST**  
João CASTRO, Thiago AGUIAR, Jose PADIN, Miguel Mari BELTRAN (PORTUGAL)
- 45375** **INTRA-ARTICULAR VERSUS INTRAVENOUS TRANEXAMIC ACID IN TOTAL KNEE ARTHROPLASTY WITHOUT USING A DRAIN: A RANDOMISED CLINICAL TRIAL**  
S.M. Javad MORTAZAVI, Babak SATTARTABAR, Babak HAGHPANAH (IRAN)
- 45135** **CLINICAL COURSE OF RESIDUAL FLEXION CONTRACTURE AFTER TOTAL KNEE ARTHROPLASTY IN PATIENTS WITH HAEMOPHILIC ARTHROPATHY**  
Babak HAGHPANAH, S.M. Javad MORTAZAVI, Mohammad Hasan KASEB, Mehdi EBRAHIMINASAB (IRAN)

**45288** **COMPARATIVE ANALYSIS OF MEDIAL AND LATERAL PARAPATELLAR APPROACH FOR TOTAL KNEE ARTHROPLASTY WITH VALGUS DEFORMITY**  
Karan SHARMA, Shailendra Kumar SHARMA (INDIA)

**43546** **ANALYSIS OF DIFFERENT POLYETHYLENE INSERT CONGRUENCIES IN MOBILE BEARING TOTAL KNEE ARTHROPLASTY DURING DAILY ACTIVITIES**  
Gianluca CASTELLARIN<sup>1</sup>, Silvia PIANIGIANI<sup>1</sup>, Gennaro RICCIARDI<sup>1</sup>,  
Bernardo INNOCENTI<sup>2</sup>  
<sup>1</sup>(ITALY), <sup>2</sup>(BELGIUM)

10:00 - 10:30 *Break*

10:30 - 12:00 *Free Papers – Total Knee Arthroplasty IV*

*Moderators:*

Mario MANILI (ITALY), Alfredo SAVARESE (ITALY)

**43788** **PROSPECTIVE STUDY OF 100 TOTAL KNEE ARTHROPLASTIES USING PSI: REAL ADVANTAGES AND DISADVANTAGES OF A STILL EVOLVING TECHNIQUE**  
Cesare CHEMELLO, Enrico SCALCO, Nicola CALZAVARA, Giovanni COSTACURTA (ITALY)

**43926** **ANTERIOR VS. POSTERIOR REFERENCING IN TOTAL KNEE ARTHROPLASTY: A PERSONAL PREFERENCE OR ANY OBJECTIVE EVIDENCE?**  
Akash SARAOGI, Aryn RAJANI, Nadir SHAH (INDIA)

**43220** **RADIOGRAPHIC ANALYSIS OF KINEMATICALLY VERSUS MECHANICALLY ALIGNED TOTAL KNEE ARTHROPLASTY**  
Tomoyuki MATSUMOTO, Koji TAKAYAMA, Kazunari ISHIDA, Toshikazu TANAKA, Takao INOKUCHI, Takehiko MATSUSHITA, Ryosuke KURODA, Masahiro KUROSAKA (JAPAN)

**43923** **EXPECTATIONS OF YOUNGER PATIENTS CONCERNING ACTIVITIES AFTER KNEE ARTHROPLASTY: ARE WE ASKING THE RIGHT QUESTIONS?**  
Suzanne WITJES, Rutger VAN GEENEN, Koen KOENRAADT, Cor VAN DER HART, Leendert BLANKEVOORT, Gino KERKHOFFS, Paul KUIJER (NETHERLANDS)

**45395** **A COHORT STUDY COMPARING THE FUNCTIONAL AND GENERAL HEALTH OUTCOMES OF STAGED VS. SIMULTANEOUS BILATERAL PRIMARY TOTAL KNEE REPLACEMENTS**  
Amelia DAVIDSON, Richard MENZIES-WILSON, Tamimi ISKANDAR, Roy TWYMAN, Richard E. FIELD (UNITED KINGDOM)

- 43465 HAS THE INTRODUCTION OF AN ENHANCED RECOVERY PROGRAMME IMPROVED PATIENT-REPORTED OUTCOME MEASURES FOR PATIENTS UNDERGOING A TOTAL KNEE REPLACEMENT?**  
Thomas MARKS, John MOOREHEAD, James FOUNTAIN, Cronan KERIN (UNITED KINGDOM)
- 43186 SHORT-TERM CLINICAL OUTCOMES OF MEASURED RESECTION AND GAP BALANCING TECHNIQUES USING ATTUNE TKR IMPLANT**  
Mun Chun LAI, Hee Nee PANG, Andy Khye Soon YEW, Darren Keng Jin TAY, Shi-Lu CHIA, Seng Jin YEO (SINGAPORE)
- 44227 QUALITY OF LIFE FOLLOWING TKR IN 3 DISTINCT PATIENT POPULATIONS**  
Sureshan SIVANANTHAN<sup>1</sup>, Christopher MOW<sup>2</sup>, Rob NELISSEN<sup>3</sup>, Nicolaas BUDHIPARAMA<sup>4</sup>  
<sup>1</sup>(MALAYSIA), <sup>2</sup>(UNITED STATES), <sup>3</sup>(NETHERLANDS), <sup>4</sup>(INDONESIA)
- 44797 THE CLINICAL OUTCOMES OF TIBIAL DETACHMENT OF MEDIAL COLLATERAL LIGAMENT DURING LIGAMENT BALANCING IN PRIMARY TOTAL KNEE ARTHROPLASTY – MINIMUM FOLLOW-UP OF 5 YEARS**  
Choong Hyeok CHOI, Jin Kyu LEE, Chang Hoon LEE (SOUTH KOREA)
- 43328 PATIENT EXPECTATIONS AND SATISFACTION AFTER COMPUTER-ASSISTED TOTAL KNEE ARTHROPLASTY**  
Masahiro HASEGAWA, Toshio YAMAGUCHI, Shinichi MIYAZAKI, Hironori UNNO, Yoshiaki SUZUKI, Shine TONE, Naoya ITO, Hiroki WAKABAYASHI, Akihiro SUDO (JAPAN)
- 42538 FAILURE MECHANISMS, RADIOGRAPHIC AND CLINICAL FEATURES OF TIBIAL COMPONENT FAILURE IN KINEMATICALLY ALIGNED TKA**  
Alexander NEDOPIL, Stephen HOWELL, Maury HULL (UNITED STATES)



**Saturday, 10 September**

**Bramante 8-9**

08:30 - 10:00

*Free Papers – Hand & Rheumatology*

*Moderators:*

Bruno BATTISTON (ITALY), Frederic SCHUIND (BELGIUM)

**43657 EFFICACY OF IGRATIMOD IN PATIENTS OF RHEUMATOID ARTHRITIS IN OUR HOSPITAL**

Atsunori TOKUSHIGE, Takashi IMAGAMA, Kazunari SEKI, Toshihiko TAGUCHI (JAPAN)

- 46092 POST-TRAUMATIC LONGITUDINAL INSTABILITIES AFFECTING WRIST AND ELBOW FUNCTION**  
Bruno BATTISTON (ITALY)
- 46093 EVOLUTION OF TREATMENT IN FRACTURES OF THE DISTAL END OF THE RADIUS IN THE ELDERLY**  
Giancarlo CARUSO, Andrea VITALI (ITALY)
- 46094 PYROCARBON IN ARTHRITIS IN THE TRAPEZIOMETACARPAL JOINT: 40 CASES**  
Paolo GHIGGIO (ITALY)
- 46096 ENDOSCOPIC RELEASE OF THE CUBITAL CHANNEL**  
Federica BERGAMIN (ITALY)
- 44733 PLATELET ASSOCIATED IGG IN PATIENTS WITH RHEUMATOID ARTHRITIS**  
Masataka NISHIKAWA, Shoichi KANESHIRO, Hajime OWAKI, Takeshi FUJI (JAPAN)
- 44847 DISEASE ACTIVITY IN PATIENTS WITH RHEUMATOID ARTHRITIS ACCORDING TO THE VITAMIN D STATUS**  
Vladyslav POVOROZNYUK, Omelyan SYNENKY, Nataliya BALATSKA (UKRAINE)
- 42843 COMPARATIVE ANALYSIS OF LOCAL COMPLICATIONS OF HIP AND KNEE ARTHROPLASTY IN PATIENTS WITH RHEUMATOID ARTHRITIS AND OSTEOARTHRITIS**  
Alexander KHRAMOV, Maxim MAKAROV, Sergey MAKAROV, Evgeniy BYALIK, Vadim PAVLOV, Vera AMIRDZHANOVA, Gayane VARDIKOVA, Alexey RYBNIKOV, Evgeniy NARYSHKIN (RUSSIA)
- 42842 STRATEGY FOR PREVENTION OF VENOUS THROMBOEMBOLISM (VTE) IN PATIENTS WITH RHEUMATOID ARTHRITIS UNDERGOING JOINT ARTHROPLASTY**  
Alexey RYBNIKOV, Evgeniy BYALIK, Tatiyana RESHETNYAK, Sergey MAKAROV, Maksim MAKAROV, Vadim PAVLOV, Alexander KHRAMOV, Gayane VARDIKOVA, Evgeniy NARYSHKIN (RUSSIA)

10:00 - 10:30 **Break**

*Moderators:*

Ajeya ADHIKARI (UNITED KINGDOM), Dariush GOURAN SAVADKOOHI (IRAN)

- 44284 A PROSPECTIVE RANDOMISED CONTROLLED STUDY COMPARING THE PAIN RELIEF IN PATIENTS WITH OSTEOPOROTIC VERTEBRAL COMPRESSION FRACTURES WITH THE USE OF VERTEBROPLASTY OR FACET BLOCKING**  
Hua GUO, Biao WANG, Dingjun HAO, Xiaodong WANG (CHINA)
- 44330 REGIONAL ANALGESIA IN TRAUMA: THE FUTURE OF PRE-OPERATIVE ANALGESIA**  
Christopher O'DOWD-BOOTH, Christopher THORNHILL (UNITED KINGDOM)
- 44400 SHOULD WE BE USING NON PARTICULATE STEROIDS IN TRANSFORAMINAL EPIDURAL STEROID INJECTIONS? A SYSTEMATIC REVIEW AND META-ANALYSIS**  
Iain FEELEY, Martin MURPHY (IRELAND)
- 45537 PAIN MANAGEMENT IN NECK OF FEMUR PATIENTS: DOES IT MAKE A DIFFERENCE?**  
Wei LEONG, Ferda IBRAM, Nancy PROSPERO, Janardhan RAO (UNITED KINGDOM)
- 43386 Hylan G-F 20 VERSUS LOW MOLECULAR HYALURONIC ACIDS FOR KNEE OSTEOARTHRITIS: A META-ANALYSIS**  
Hongmou ZHAO, Xiaojun LIANG, Yi LI (CHINA)
- 44997 LOCAL INFILTRATIVE ANALGESIA (LIA) TECHNIQUE FOR PAIN CONTROL AFTER SIMULTANEOUS BILATERAL TOTAL KNEE ARTHROPLASTY**  
Saurabh GIRI, Mahesh KULKARNI, Hemant WAKANKAR (INDIA)
- 44252 COMPARISON OF ANTERIOR KNEE PAIN FOLLOWING PATELLAR DENERVATION VERSUS NON-DENERVATION IN UNILATERAL TOTAL KNEE ARTHROPLASTY – A RANDOMISED CONTROLLED TRIAL WITH 12 MONTHS' FOLLOW-UP**  
Balaraju MENEGE, Krishna Kiran ECHAMPATI, Sukeshrao SANKINEANI, Chiranjeevi TAYA, Guravareddy ANNAPAREDDY VEKKATA (INDIA)
- 43954 ROLE OF VISCOSUPPLEMENTATION FOR PAIN RELIEF IN PRIMARY OSTEOARTHRITIS OF KNEE JOINT**  
Yuvraj HIRA (INDIA)



## Saturday, 10 September

### Tintoretto 2

08:30 - 10:00

#### **Short Free Papers – Sports Medicine**

*Moderators:*

Haytham ABDEL-MONEIM (EGYPT), Nicola SANTORI (ITALY)

- 42985 SUCCESSFUL EARLY RETURN TO SPORTS AFTER INTERNAL BRACING PRIMARY ACL REPAIR**  
David CABORN, John NYLAND, Alaa KALLOUB (UNITED STATES)
- 44890 DOES THE RELEASE OF TRANSVERSE LIGAMENT IMPROVE THE RESULTS OF HIGH ARTHROSCOPIC TENODESIS?**  
Michele Attilio ROSA, Francesco FRANCESCHI, Edoardo FRANCESCHETTI, Luca LA VERDE (ITALY)
- 42584 IS BASELINE STRAIN INDEX A PROGNOSTIC FACTOR FOR SMALL UNILATERAL SUPRASPINATUS TENDON TEARS? A 2-YEAR FOLLOW-UP STUDY**  
Salvatore BISICCHIA, Cosimo TUDISCO, Andrea CAPPIELLO, Salvatore MASALA, Marco ANTONICOLI, Erald VASILI (ITALY)
- 44176 QUALITY OF SEXUAL LIFE AFTER ARTHROSCOPIC RELEASE OF GLUTEAL MUSCLE CONTRACTURE IN FEMALE PATIENTS**  
Xintao ZHANG (CHINA)
- 43378 ARE SEVERE DEFORMITIES AN ABSOLUTE CONTRAINDICATION FOR HIP ARTHROSCOPY?**  
Nicola SANTORI, Antonio BERTINO, Domenico POTESTIO (ITALY)
- 42792 DIAGNOSTIC ANKLE ARTHROSCOPY: IS IT USEFUL?**  
Haytham ABDEL-MONEIM, Kamal ABDEL-MEGUID, Ahmed KHOLEIF, Amr RASHWAN, Sherif ATTIA (EGYPT)
- 43014 TO WHAT EXTENT CAN THE APPLICATION OF A CELL-FREE SCAFFOLD IMPROVE THE OUTCOMES IN PATIENTS TREATED FOR FOCAL OSTEOCHONDRAL LESIONS OF THE KNEE?**  
Hakan SOFU, Nizamettin KOCKARA, Ali ONER, Yalkin CAMURCU, Ahmet ISSIN, Vedat SAHIN (TURKEY)
- 43047 USE OF LOW MOLECULAR WEIGHT HYALURONIC ACID IS ASSOCIATED WITH A SHORTER TIME TO KNEE ARTHROPLASTY IN THE ELDERLY U.S. KNEE OA POPULATION**  
Faizan NIAZI, Kevin ONG, Allen ANDERSON, Edmund LAU, Steven KURTZ, Roy ALTMAN (UNITED STATES)

- 43046 SYNERGISTIC EFFECTS OF HYALURONIC ACID AND CORTICOSTEROID INJECTIONS IN EXTENDING TIME TO KNEE ARTHROPLASTY IN KNEE OA PATIENTS**  
Faizan NIAZI, Kevin ONG, Allen ANDERSON, Edmund LAU, Steven KURTZ, Roy ALTMAN (UNITED STATES)
- 44978 CARTILAGE REGENERATION AFTER ISOLATED HIGH TIBIAL OSTEOTOMY: 2ND LOOK ARTHROSCOPIC STUDY**  
Sang Jin PARK, Jae Hoon CHUNG (SOUTH KOREA)
- 43066 ACTIVITY TOLERANCE AFTER MENISCAL ALLOGRAFT TRANSPLANTATION**  
Xintao ZHANG, Wentao ZHANG (CHINA)
- 44128 NEW ARTHROSCOPIC FINDINGS ON MENISCAL TEAR**  
Dasheng LIN (CHINA)
- 45214 DEVELOPMENT AND EVALUATION OF ADJUSTABLE KINEMATIC JOINT MODELS FOR UNDERSTANDING JOINT DISLOCATIONS AND REDUCTION TECHNIQUES**  
Markus REGAUER, Mirjam LANGE, Matthias SIEBECK, Wolfgang BÖCKER, Ben OCKERT (GERMANY)
- 44961 IDEAL ALIGNMENT OF HIGH TIBIAL OSTEOTOMY IN LATERAL DISCOID MENISCUS PATIENTS: OUR EXPERIENCE**  
Jatin PRAKASH, Jong Keun SEON, Young Joo SHIN, Eun Kyoo SONG (SOUTH KOREA)
- 42909 MINIMUM 6-YEAR FOLLOW-UP OF ARTHROSCOPIC MEDIAL REEFING FOR PATELLAR INSTABILITY**  
Osman CIVAN, Mesut SANCMIS, Nazim TOPCUOGLU, A. Merter OZENCI (TURKEY)
- 10:00 - 10:30 *Break*
- 10:30 - 12:00 *Short Free Papers – Trauma*
- Moderators:*  
Reinhard SCHNETTLER (GERMANY), NN
- 45483 WHICH COLLES' FRACTURE REQUIRES AN OPERATION?**  
Jan ROELFING, Daniel WAEVER, Mette Normann LUND, Lars BORRIS, Rikke THORNINGER (DENMARK)
- 45090 OUTCOME OF ONLY POSTERIOR FIXATIONS OF DISPLACED ACETABULUM FRACTURES**  
Devendra AGRAHARAM, Velmurugesan PURNA GANAPATHY SUNDARAM, Ramesh PERMUL, Deenadayalan JAYARAM RAJU, Shanmuganathan RAJASEKARAN (INDIA)

- 45200 USE OF FIBULAR STRUT GRAFT WITH LOCK PLATE IN UNSTABLE FRACTURE OF PROXIMAL HUMERUS**  
Anil SINGHAL (INDIA)
- 45025 MINIMALLY INVASIVE PERCUTANEOUS PLATE OSTEOSYNTHESIS (MIPPO) VS. OPEN PLATING IN SUPERIOR PLATING OF MIDSHAFT CLAVICLE FRACTURES: A PROSPECTIVE RANDOMISED TRIAL**  
Ercan SAHIN, Sinan ZEHIR, Murat SONGUR (TURKEY)
- 44560 BIPOLAR CLAVICLE FRACTURE: A REVIEW OF THE MANAGEMENT OF THIS COMPLEX INJURY THROUGH A CASE ANALYSIS**  
Jonathan PETERS, Christopher O'DOWD-BOOTH, Jeremy GRANVILLE-CHAPMAN, Enis GURYEL (UNITED KINGDOM)
- 44550 RADIAL HEAD FRACTURE: PROSTHETIC REPLACEMENT OUTCOME**  
Elsayed SAID, Ahmed ADDOSSOKI (EGYPT)
- 45353 PERIPROSTHETIC FEMORAL FRACTURES – TREATMENT PARADIGM SHIFT?**  
Reinhard SCHNETTLER<sup>1</sup>, Alexander CHELNOKOV<sup>2</sup>, Djoldas KULDJANOV<sup>3</sup>, Igor PIVEN<sup>2</sup>, Alexey SEMENISTY<sup>2</sup>, Mykola HORODYSKY<sup>4</sup>  
<sup>1</sup>(GERMANY), <sup>2</sup>(RUSSIA), <sup>3</sup>(UNITED STATES), <sup>4</sup>(DENMARK)
- 42730 INITIAL RADIOGRAPHIC FINDINGS OF INTERTROCHANTERIC FRACTURES THAT MAY HERALD UNSUCCESSFUL CLOSED REDUCTION**  
Syed Suhaib JAMEEL<sup>1</sup>, Martinique Vella BALDACHINNO<sup>1</sup>, Jong Keon OH<sup>2</sup>  
<sup>1</sup>(UNITED KINGDOM), <sup>2</sup>(SOUTH KOREA)
- 42656 MINIMALLY INVASIVE POSTERIOR APPROACH IN THE TREATMENT OF FRACTURES OF THE ACETABULUM: THE ITALIAN EXPERIENCE, CONSIDERATIONS AND INDICATION AFTER 10 YEARS**  
Francesco SALA, Rosario SPAGNOLO, Francesco LUCERI, Fabrizio CAROLI (ITALY)
- 43354 POLYTRAUMA TEAM TRAINING: SIMULATION TEAM TRAINING LEADS TO IMPROVED TEAMWORK AND EFFECTIVENESS OF THE PRIMARY SURVEY**  
Sebastian KUHN, Wolfgang MARX, Carsten LOTT, Pol M. ROMMENS (GERMANY)
- 45132 COMPARISON OF POSTERIOR BUTTRESS PLATE, A-P SCREW AND P-A SCREW FOR THE FIXATION OF THE POSTERIOR MALLEOLAR FRAGMENT IN SURGICAL FIXATION OF TRIMALLEOLAR FRACTURES**  
Ercan SAHIN, Mahmut KALEM, Murat SONGUR, Hakan KINIK (TURKEY)
- 44262 ASSESSMENT OF 3-MONTH POSTOPERATIVE MORTALITY IN PATIENTS UNDERGOING SURGICAL FIXATION OF HIP FRACTURES WITH THE NOTTINGHAM HIP FRACTURE SCORE**  
Zohaib Gulzar NAQVI, Mansoor KHAN, Mohannad Amin CHINOY, Syed Kamran AHMED (PAKISTAN)
- 44102 THE TECHNICAL REFINEMENT AND CLASSIFICATION OF THE LOWER EXTREMITY DEGLOVING INJURIES**  
Weidong WENG, Hede YAN, Weiyang GAO (CHINA)