



Università degli Studi di Torino
DIPARTIMENTO DI TRAUMATOLOGIA,
ORTOPEDIA E MEDICINA DEL LAVORO
Centro Traumatologico Ortopedico

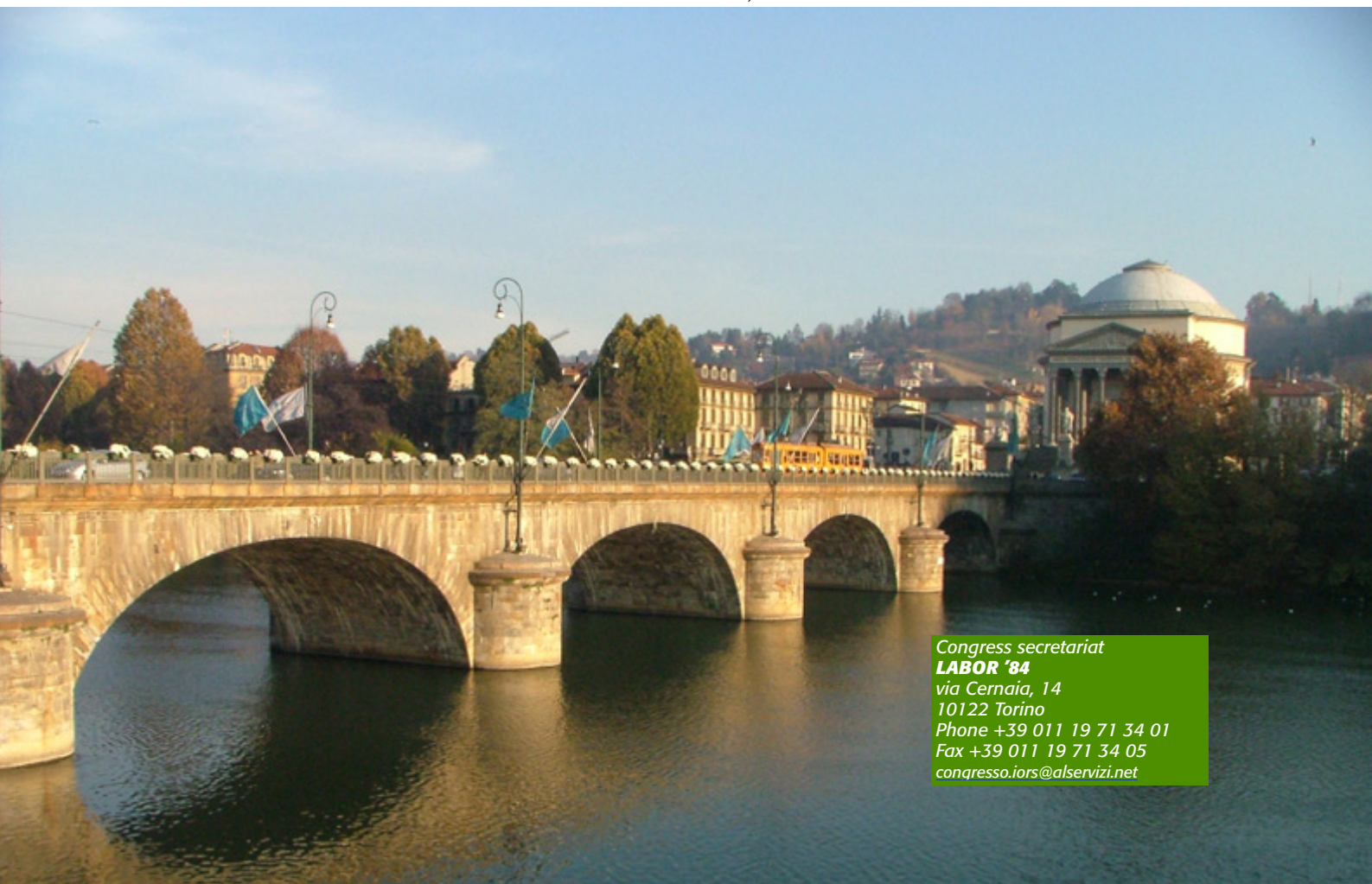


IORS
ITALIAN ORTHOPAEDIC
RESEARCH SOCIETY

IX NATIONAL CONGRESS
ITALIAN ORTHOPAEDIC
RESEARCH SOCIETY
IORS

Turin, June 14th - 15th 2007

Aula Magna Centro Traumatologico Ortopedico
Via Zuretti, 29



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All information about the Congress can be found on the website

www.iors.ior.it - *meeting section.*



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Thursday, June 14th

- 10.00 – 10.10 **President's welcome and opening of the activities**
- 10.10 – 12.20 **Chairmen: Maurizio Crova and Luigi Costa**
- 10.10 PROBLEMS RELATED TO THE MEASUREMENT OF POLYETHYLENE PENETRATION IN VIVO
Salvi, V.
- 10.20 STABILIZATION OF PROSTHETIC UHMWPE WITH VITAMIN E
Bracco, P.; Costa, L.; Brach del Prever, E.M.
- 10.30 SURFACE GRAFTING OF BIOMATERIALS WITH ALKALINE PHOSPHATASE
Vernè E.; Ferraris, S.; Spriano, S.; Vitale Brovarone, C.; Bianchi, C.; Morra, M.; Cassinelli, C.
- 10.40 INTERNAL STABILIZATION SYSTEMS: A FINITE ELEMENT STUDY OF DIFFERENT DESIGNS
Martinelli, B.; Valentini, R.; Cosmi, F.; Hoglievina, M.; Nogherotto, P.
- 10.50 SURFACE MODIFICATION OF COBALT ALLOYS FOR ARTICULAR PROSTHESES
Spriano, S.; Vernè, E.; Guala, C.; Faga, M.G.; Eitel, F.
- 11.00 ANTIBACTERIAL AND BIOCOMPATIBLE SILVER-CONTAINING GLASSES AND GLASS-CERAMICS
Ferraris, S.; Miola, M.; Robotti, P.; Bianchi, G.; Di Nunzio, S.; Vernè, E.
- 11.10 BIOMIMETIC TREATMENTS OF TITANIUM SURFACE TO IMPROVE MSC ADHESION
Devescovi, V.; Pagani, S.; Ciapetti, G.; Dettin, M.; Baldini, N.; Giunti, A.
- 11.20 A NOVEL TITANIUM SURFACE TREATMENT FOR THE IMPROVEMENT OF ORTHOPAEDIC IMPLANT OSSEOINTEGRATION
Simoncini, M.; Sandrini, E.; Cigada, A.; Castoldi, F.; Marmotti, A.; Rossi, R.; Rossi, P.
- 11.30 COMPUTER ASSISTED SYSTEM FOR THE INTRA-OPERATIVE EVALUATION OF JOINT KINEMATIC BEHAVIOUR IN KNEE ARTHROPLASTY
Zaffagnini, S.; Iacono, F.; Casino, D.; Lopomo, N.; Bignozzi, S.; Martelli S.; Marcacci, M.
- 11.40 MIS + CAS IN KNEE REPLACEMENT: BI-UNICOMPARTMENTAL (BI-UKR) vs TOTAL KNEE (TKR) - A MATCHED PAIRED STUDY
Confalonieri, N.; Manzotti, A.
- 11.50 PRIMARY REPAIR WITH HEALING STIMULATION TECHNIQUE FOR PARTIAL TEARS OF THE ANTERIOR CRUCIATE LIGAMENT
Gobbi, A.; Ramces, F.; Arrigoni, P.

- 12.00 A COMPUTER ASSISTED SURGICAL TECHNIQUE FOR TOTAL KNEE ARTHROPLASTY REVISION
Marcacci, M.; Nofrini, L.; Bignozzi, S.; Iacono, F.; Zaffagnini, S.; Lo Presti, M.; Di Martino, A.
- 12.10 RECURRENCE OF VARUS/VALGUS DEFORMITY AFTER TKR AT 3 YEARS' FOLLOW-UP
Russo, A.; Bragonzoni, L.; Trozzi, C.; Bruni, D.; Marcacci M.
- 12.20 – 13.00 **Lectio magistralis - Ugo Pazzaglia**
A model of the intracortical canals and vessels system in the rabbit femur
- 13.00 – 14.00 Lunch
- 14.00 – 16.00 Chairmen: Ranieri Cancedda, Anna Maria Biondi, Flavio Quaglia and Enrica Vernè
- 14.00 FORENSIC ASPECTS OF STEM CELL USE FOR THERAPEUTIC AIMS
Ottaviano, L.; Palmieri, D.; Falco, A.; Martini, G.
- 14.10 TREATMENT OF CARTILAGE LESIONS IN THE KNEE WITH PVA-H HYDROGEL. ROME'S EXPERIENCE SINCE 2002
Sciarretta, F.V.; Versari, P.; Basile, A.; Di Cave, E.
- 14.20 TYPE I AND TYPE II COLLAGEN MEMBRANES AND SUBCHONDRAL PERFORATIONS IN RABBIT ARTICULAR CARTILAGE REPAIRING: HISTOLOGICAL AND HISTOMORPHOMETRICAL EVALUATION
Gigante, A.; Enea, D.; Cesari, E.; Greco, F.
- 14.30 PLATELET DERIVED GROWTH FACTORS IN ROTATOR CUFF REPAIR - A PROSPECTIVE STUDY: ONE YEAR FOLLOW-UP
Randelli, P.; Arrigoni, P.; Randelli, F.; Tassi, A.; Cabitza, P.
- 14.40 THE TREATMENT OF RECALCITRANT LONG BONE NON-UNIONS WITH BONE MORPHOGENETIC PROTEIN-7 (BMP-7)
Biasibetti, A.; Aloj, D.; Di Gregorio, G.; Salomone, C.; Massè, A.
- 14.50 TREATMENT OF LONG BONE NON UNION WITH BMPS OR AGFS: ADVANCED RESULTS
Calori, G.M.; Albisetti, W.; Tagliabue, L.; D'Avino, M.; D'Imporzano, M.; Peretti, G.
- 15.00 THE OSTEOCHONDRAL REPAIRED SURGERY WITH AUTOLOGOUS TRANSPLANT OF STEM CD 133+
Santoro, G.; Russo, S.; Donato, R.; Di Napoli, G.; Corrado, E.M.
- 15.10 EFFECTS OF FREEZING ON THE BIOMECHANICAL AND STRUCTURAL PROPERTIES OF HUMAN POSTERIOR TIBIAL TENDONS
Buda, R.; Di Caprio, F.; Fornasari, P.; Giannini, S.;

- 15.20 IN VITRO ADHESION AND PROLIFERATION OF RABBIT BONE MARROW PRECURSOR CELLS ON PCL SURFACE
Perut, F.; Capetti, G.; Capitani, O.; Marletta, G.; Giunti, A.; Baldini, N.
- 15.30 COMPARATIVE EVALUATION OF BONE RESPONSE TO POLY-L-LACTIC ACID (PLLA) AND HYDROXYAPATITE (HA): IN VIVO STUDY
Palmieri, D.; Falco, A.; Ottaviano L.; Martini, G.
- 15.40 VASCULARIZATION OF THE FUSION MASS IN A EXPERIMENTAL POSTEROLATERAL INTERTRANSVERSE PROCESS FUSION WITH CORALLINE HYDROXYAPATITE AND CULTURED MESENCHIMAL STEM CELLS
Giannicola, G.; Cinotti, G.; Riminucci, M.; Corsi, A.; Ferrari, E.; Mancini, U.; Citro, G.; Sacchetti, F.; Sacchetti, B.; Bianco, P.; Postacchini, F.
- 15.50 3D CULTURE OF ARTICULAR CARTILAGE EXPLANTS: NEW PERSPECTIVES FOR FUTURE POSSIBLE CLINICAL APPLICATIONS
Steimberg, N.; Zarattini, G.; Morandini, E.; Pazzaglia, U. E.; Mazzoleni, G.
- 16.00 – 16.20 Coffee break
- 16.20 – 17.00 **Lectio magistralis – Ranieri Cancedda**
Cell therapy and tissue engineering for bone repair
- 17.00 – 18.00 **Round table**
Bank tissues and bone substitutes
- Chairmen: Ranieri Cancedda, Anna Maria Biondi, Enrica Vernè and Flavio Quaglia
- 17.00 Maarten Persenaire (USA)
The importance of scaffold design for the effectiveness of synthetic bone graft substitutes
- 17.10 Maarten Persenaire (USA)
Characteristics and potential advantages of a novel syntetic bone void filler
- 17.20 Alessandro Pecchia
Musculoskeletal human tissue processing performed under pharmaceutical conditions
- 17.30 – 18.00 **Discussion**
- 18.00 – 18.30 **IORS Members' Meeting**

Friday, June 15th

- 08.30 – 10.00 Chairmen: Ugo Pazzaglia and Paolo Gallinaro
- 08.30 NEOANGIOGENESIS IN ADULT SOFT TISSUE SARCOMAS (STS): PROGNOSTIC SIGNIFICANCE OF MICROVESSEL DENSITY (MVD) CORRELATED TO GRADING AND STAGE. A PERSPECTIVE STUDY.
Comandone, A.; Boglione, A.; Berardengo, E.; Bernardi, A.; Bergnolo, P.; Linari, A.; Forni, M.; Chiadò Cutin, S.; Gino, G.; Brach del Prever, E.M.
- 08.40 CELL INVASIVENESS: A NEW PROGNOSTIC PARAMETER PREDICTIVE OF TUMOR PROGRESSION IN A CASE OF HUMAN CHONDROSARCOMA
Fazioli, F.; De Chiara A.; Carriero M. V.; Bifulco K.; Lombardi, M.L.; Longanesi Cattani I.; Cantelmo A.R.; Rocco G.; Federico G.; Iacono V.; Lettera M.G.
- 08.50 METOTREXATE-ADDED ACRYLIC CEMENT: HISTOLOGICAL AND PHYSICAL PROPERTIES
Maccauro, G.; Muratori, F.; Piconi C.; Spadoni, A.; Arrabito, G.; Aliberti, C.; Rosa M.A.
- 09.00 ALTERATIONS OF GENES IN SOFT TISSUE SARCOMAS: METHYLATION STATUS OF RASSF1A AND MGMT GENES
Pulerà, F.; Linari, A.; Forni, M.; Gino, G.C.; De Marchi, A.; Brach del Prever, E.M.
- 09.10 TERMINO-LATERAL NEURORRHAPHY FOR PERIPHERAL NERVE REGENERATION
Boux, E.; Tos, P.; Raimondo, S.; Papalia, I.; Geuna, S.; Battiston, B.
- 09.20 LACK OF TOPOGRAPHIC SPECIFICITY IN NERVE FIBER REGENERATION OF RAT FORELIMB MIXED NERVES
Tos, P.; Lee, J.M.; Raimondo, S.; Papalia, I.; Fornaio, M.; Geuna, S.; Battiston, B.
- 09.30 EXPERIMENTAL STUDY ON THE USE OF MUSCLE-VEIN COMBINED GUIDES FOR THE REPAIR OF RAT MEDIAL NERVE
Raimondo, S.; Nicolino, S.; Audisio, C.; Gaidano, V.; Gambarotta, G.; Tos, P.; Battiston, B.; Perroteau, I.; Geuna, S.
- 09.40 TYPE-I COLLAGEN MEMBRANE AS A SCAFFOLD FOR TENDON REPAIR: AN IN VITRO AND IN VIVO STUDY
Gigante, A.; Cesari, E.; Manzotti, S.; Busilacchi, A.; Greco, F.
- 09.50 TENDOSCOPY AND PERONEAL VINCULA: A CADAVERIC AND HISTOLOGICAL STUDY
Marmotti, A.; Del Din, R.; Germano, M.; Castoldi, F.; Rossi, R.; Mosso, L.
- 10.00 – 10.20 Coffee break

10.20 – 12.30 Chairmen: Paolo Rossi and Giancarlo Isaia

- 10.20 RESURFACING OF THE HIP: A BIOMECHANICAL STUDY ON THE CORRECT POSITIONING OF THE IMPLANT ON CADAVERIC FEMURS
Indelli, P. F.; Dominguez, D.; Kitaoka, K.; Vail, T. P.
- 10.30 MINIMAL INVASIVE SURGERY IN TIBIAL PLATEAU FRACTURES
Betti, E.; Riani, E.; Vitale, M.; Bigliuzzi, N.; Vaglini, M.
- 10.40 ANXIETY TRAIT LEVEL AND PATIENT MANAGEMENT IN FOOT SURGERY
Parrini, M.M.; Spada, A.; Betti, S.; Randelli, P.; Cabitza, P.
- 10.50 PATHOLOGY OF SURGICALLY RETRIEVED FEMORAL HEADS FOLLOWING A FAILED VASCULARIZED FIBULAR GRAFT IN THE TREATMENT OF A VASCULAR NECROSIS OF THE FEMORAL HEAD
Meloni, M.C.; Fornasier, V.L.; Denaro, V.
- 11.00 RUPTURE OF THE ROTATOR CUFF TENDON: A HISTOPATHOLOGIC STUDY
Franceschi, F.; Longo, U.G.; Ruzzino, L.; Rizzelo, G.; Marinozzi, A.; Denaro, V.
- 11.10 LEG MUSCLE ATROPHY IN THE IDIOPATHIC CONGENITAL CLUB FOOT - HISTOPATHOLOGICAL AND MRI STUDY
Ippolito, E.; De Maio, F.; Bellini, D.; Mancini, F.; Masala, S.A.
- 11.20 GENE THERAPY FOR INTERVERTEBRAL DISC DEGENERATION: PROOF OF EFFICACY AND IMPROVED SAFETY
Vadalà, G.; Kang, J.D.; Denaro, V.
- 11.30 EXTRACORPOREAL SHOCK WAVES INDUCE BONE REPAIR ACTION IN MURINE CALVARIA OSTEOBLASTS
Moretti, B.; Notarnicola, A.; Foscarini, P.; Tamma, R.; Zallone, A.; Patella, V.
- 11.40 VITAMIN K INDUCES OSTEOGENIC DIFFERENTIATION OF MESENCHYMAL STEM CELLS DERIVED FROM FRACTURE CALLUS
Gigante, A.; Boldrini, E.; Torcianti, M.; Manzotti, S.; Greco, F.
- 11.50 ASSOCIATION BETWEEN IL-6 AND MMP-3 GENEPOLYMORPHISMS AND ADOLESCENT IDIOPATHIC SCOLIOSIS (AIS): A CASECONTROL STUDY
Pola, E.; Scaramuzzo, L.; Oggiano, L.; Logroscino, C.A.
- 12.00 MORPHOMETRIC STUDY OF CORTICAL BONE MODELING AND OSTEOONAL DEVELOPMENT IN THE RABBIT FEMUR
Pazzaglia, U.E.; Rodella, L.; Bonaspetti, G.; Ranchetti, F.; Bettinsoli, P.; Salari, M.
- 12.10 ESTROGEN DEFICIENCY INCREASES OSTEOCLASTOGENESIS UPREGULATING T CELLS ACTIVITY: A KEY MECHANISM IN OSTEOPOROSIS
D'Amelio, P.; Grimaldi, A.; Di Bella, S.; Brianza, S. Z. M.; Tamone C.; Pescarmona, G.P.; Isaia, G.

12.20 EX VIVO GENE THERAPY APPROACH USING HUMAN LIM MINERALIZATION PROTEIN-3 TO INDUCE BONE HEALING IN A RODENT MODEL
Pola, E.; Oggiano, L.; Lattanzi, W.; Logroscino G.; Robbins, P.D.

12.30 – 13.00 **Posters discussion**

RADIOGRAPHIC-EVALUATED LINEAR WEAR AT 5 YEARS FOR CROSSLINKED VS CONVENTIONAL UHMWPE

Bistolfi, A.; Testa, D.; Massazza, G.; Damilano, M.; Molino, L.; Pautasso, P.; Gallo, A.; Faletti, C.; Crova, M.

HIGH PRESSURE PROCESSING OF UHMWPE FOR TOTAL JOINT REPLACEMENT PROSTHESES: ADVANTAGES & LIMITATIONS

Bistolfi, A.; D'Angelo, F.; Turell, M.B.; Bellare, A.

OXIDATION OF PROSTHETIC UHMWPE: ETO VERSUS RADIATION STERILISATION, AN ACCELERATED STUDY

Brach del Prever, E.M.; Costa, L.; Bracco, P.

PACKAGING OF MUSCOLO - SKELETAL TISSUES AT -80°C COULD BE IMPROVED

Brach del Prever, E.M.; Biondi, A.M.; Bracco, P.; Bistolfi, A.; Boffano, M.; Costa, L.

PHYSICO-CHEMICAL ANALYSES OF UHMWPE PROSTHETIC COMPONENTS: A 15-YEARS EXPERIENCE.

Bracco, P.; Brunella, V.; Bistolfi, A.; Costa, L.; Brach del Prever, E.M.

SENSORY PROTECTION ON DENERVATED SKELETAL MUSCLES: EXPERIMENTAL RESULTS

Ciclamini, D.; Chirila, L.; Tos, P.; Vasario, G.; Geuna, S.; Ronchi, G.; Battiston, B.

OSTEOINTEGRATION OF TANTALUM TIBIAL PLATEAU IN THE SUPERFICIAL PTG NEXGEN: SHORT TERM RESULTS

Damilano, M.; Fiammengo, M.; Lancione, V.; Caresio, M.; Indemini, E.

A MINIMALLY INVASIVE TECHNIQUE ("HEALING RESPONSE") TO TREAT PARTIAL PROXIMAL ACL INJURIES.

Drocco, L.; Graziano, E.; Testa, D.; Dolfin, M.; Massazza, G.; Bistolfi, A.; Cenna, E.; Crova, M.

CLINICAL RESULTS OF ARTHROSCOPIC REPAIR OF ROTATOR CUFF TEARS ASSOCIATED WITH TYPE 2 SLAP LESIONS: A RETROSPECTIVE STUDY

Franceschi, F.; Longo, U.; Ruzzini, L.; Rizzello, G.; Marinozzi, A.; Denaro, V.

RANDOMIZED CLINICAL TRIAL COMPARING THE EFFECTS ON SHOULDER FUNCTION OF SINGLE ROW OR DOUBLE ROW SUTURE ANCHOR REPAIR

Franceschi, F.; Longo, U.; Ruzzini, L.; Rizzello, G.; Marinozzi, A.; Denaro, V.

SIMULTANEOUS ARTHROSCOPIC IMPLANTATION OF AUTOLOGOUS CHONDROCYTES AND HIGH TIBIAL OSTEOTOMY IN THE VARUS KNEE

Franceschi, F.; Longo, U.; Ruzzini, L.; Rizzello, G.; Marinozzi, A.; Denaro, V.

THE DOUBLE PULLEY TECNIQUE FOR ROTATOR CUFF REPAIR: A PRELIMINARY REPORT

Franceschi, F.; Longo, U.; Ruzzini, L.; Rizzello, G.; Marinozzi, A.; Denaro, V.

ARTHROSCOPIC SUBACROMIAL DECOMPRESSION

Graziano, E.; Drocco, L.; Balboni, E.; Galetto, F.; Peyrani, A.; Cenna, E.

ACL RECONSTRUCTION WITH AUTOLOGOUS PLATELET BIOLOGIC STIMULATION

Graziano, E.; Molino, L.; Drocco, L.; Cenna, E.; Crova, M.

THE CONSERVE-PLUS METAL-ON-METAL HIP RESURFACING SYSTEM: SURGICAL TECHNIQUE, CLINICAL RESULTS AND COMPLICATIONS ON A CONSECUTIVE SERIES

Indelli, P.F.; Vail, T.P.

RM ACERBULAR COMPONENT A CLINICALLY GUIDED EVOLUTION OF DESIGNE AND MATERILS

Lazzara, D.

IN VITRO STUDY ON THE BEHAVIOUR A GLIAL CELL LINE (NOBEC) SEEDED ON DIFFERENT TYPES OF BIOMATERIALS IN THE PERSPECTIVE OF THEIR EMPLOYMENT FOR PERIPHERAL NERVE RECONSTRUCTION

Nicolino, S.; Audisio, C.; Chiaravalloti, A.; Rechichi, A.; Gambarotta, G.; Di Scipio, F.; Fregnan, F.; Raimondo, S.; Geuna, S.; Tos, P.; Battiston, B.; Ciardelli, G.; Perroteau, I.

CHONDROSARCOMA, DIAGNOSIS AND TREATMENT, OUR EXPERIENCE.

Nicolosi, F.; Leonardi, W.; Leonardi, E.

CLINICAL FACTORS ASSOCIATED WITH AN INCREASED RISK OF PERIOPERATIVE BLOOD TRANSFUSION IN NONANEMIC PATIENTS UNDERGOING TOTAL HIP ARTHROPLASTY

Pola, E.; Venosa, M.; Oggiano, L.; Pagano, E.; Logroscino, G.

POTENTIAL DIAGNOSTIC VALUE OF REVERSE-TRANSCRIPTASE POLYMERASE CHAIN REACTION ON SOFT TISSUE SARCOMA

Pulerà, F.; Linari, A.; Forni, M.; Gino, G.C.; De Marchi, A.; Faletti, C.; Brach del Prever E.M.

REDUCTION OF GLENO-HUMERAL MOTION AFTER ARTHROSCOPIC ROTATOR INTERVAL CLOSURE AND BANKART REPAIR. IN VIVO RETROSPECTIVE STUDY

Randelli, P.; Polli, L.; Arrigoni, P.; Tassi, A.; Ragone, V.; Parrini, M.; Cabitza, P.

DIFFERENT SURGICAL POSSIBILITIES FOR RECONSTRUCTION OF SCHELETAL CONTINUITY AFTER HUGE RESECTIONS FOR MALIGNANT TUMOURS IN THE GROWING AGE

Rosa, M.A.; Maccauro, G.; Alesci, M.; Amato, D.; Aliberti, C.

SURVIVORSHIP OF UNCEMENTED THI – METAL-METAL COUPLING IN JOUNG PATIENTS WITH A MEAN OF 12 YEARS (F.U MAX. 14 YR)

Scarponi, R.; Scarponi, S.

ABOUT A NEW SYSTEM OF PERCUTANEOUS SYNTHESIS: "THE DELTA SYNTHESIS"

Tangari, M.; Minniti De Simeonibus, A.U.

13.00

Conclusion

