

14.00-15.00 Special Poster Sessions

These posters are the special posters to be briefly presented orally in the Exhibition Area

MOTION PRESERVATION

Chairs: P. BARSA and B. BOSZCZYK

- SP1** PROSPECTIVE, RANDOMIZED, MULTICENTER FOOD AND DRUG ADMINISTRATION INVESTIGATIONAL DEVICE EXEMPTION STUDY OF LUMBAR TOTAL DISC REPLACEMENT WITH THE CHARITÉ ARTIFICIAL DISC VERSUS LUMBAR FUSION
R. Guyer, P.C. McAfee, R.J. Banco, F. Bitan, A. Cappuccino, F.H. Geisler, H. Hochschuler, L.G. Jenis, J.J. Regan, S.L. Blumenthal
Texas Back Institute, Texas, USA
- SP2** BIAS AND PRECISION ERRORS IN COBBOMETER TOTAL DISC REPLACEMENT ANGLE MEASUREMENTS
V. Kosmopoulos, K. Stafylas, J. McManus, C. Schizas
Hôpital Orthopédique de la SuiEuroSpine Romande, Centre Hospitalier Universitaire Vaudois and The University of Lausanne, Switzerland
- SP3** HYBRID CONSTRUCT: ALIF L5S1 AND DISC ARTHROPLASTY L4L5 FOR TWO LEVELS DEGENERATIVE DISC DISEASE. CLINICAL OUTCOMES AT 3 YEARS
S. Aunoble, J.C. Le Huec, R. Meyrat
Spine Unit, Bordeaux University Hospital, France
- SP4** PROBABILISTIC FINITE ELEMENT ANALYSIS OF THE LUMBAR SPINE AFTER TOTAL DISC REPLACEMENT
A. Rohlmann, A. Mann, T. Zander, G. Bergmann
Charité, Campus Virchow Klinikum, Biomechanics Laboratory, Berlin, Germany
- SP5** GOOD FUNCTIONAL OUTCOME 10 YEARS AFTER SINGLE LEVEL ANTERIOR LUMBAR INTERBODY FUSION WITH ADDITIONAL POSTERIOR FIXATION
P.P. Horsing, P.W. Pavlov, M. Obradov-Rajic, J.L. Merx, W. Jacobs, J. van Limbeek
Departments of Orthopaedic Surgery, Radiology and Research, Development & Education, Nijmegen, NL
- SP6** NATURAL HISTORY OF ASYMPTOMATIC LUMBAR CANAL STENOSIS IN PATIENTS SURGICALLY TREATED FOR CERVICAL MYELOPATHY
T. Tsutsumimoto, M. Shimogata, H. Oota, M. Yui, H. Misawa
Spine Center, Yodakubo Hospital, Nagano, Japan
- SP7** PATIENT BASED OUTCOME AFTER LUMBAR FUSION VS. TOTAL DISC ARTHROPLASTY Ñ A MATCHED COHORT ANALYSIS
A. Tuschel, A. Chavanne, S. Becker, M. Ogon
Orthopaedic Hospital Vienna Speising, Spine Departement, Vienna, Austria

BASIC SCIENCE, REGISTRY

Chairs: A. WILKE and A. MANNION

- SP8** PIECEMEAL SPONDYLECTOMY FOR EXTENDED PRIMARY CERVICAL SPINAL TUMORS: ROLES OF SURGICAL EXPOSURE AND FOLLOW UP IN LOCAL CONTROL
F. Wei, Z.J. Liu, Q.J. Ma, X.G. Liu, Z.S. Yu, L. Jiang, G.T. Dang
Peking University 3rd Hospital Orthopaedic department, ROC
- SP9** SPINE TANGO: PRESENTATION OF THE EUROPEAN RESULTS OF OPERATIVE THERAPY OF LUMBAR SPINAL STENOSIS (LSS)
R. Sobottke, T.M. Kaulhausen, C. Röder, K.S. Delank, P. Eysel
Department of Orthopaedic Surgery, University of Cologne, Cologne, Germany; MEM Research Center for Orthopaedic Surgery at the University of Berne, Switzerland
- SP10** A NOVEL BIOMATERIAL FOR SPINAL FUSION: AN EXPERIMENTAL STUDY IN A CANINE LUMBAR INTERBODY FUSION MODEL
M. Takemoto, S. Fujibayashi, M. Neo, T. Nakamura
Department of Orthopaedic Surgery, Graduate School of Medicine, Kyoto University, Japan

- SP11** FUNCTIONAL ANATOMY OF THE ALAR LIGAMENTS IN AXIAL ROTATION
A.P. Littlewood, M. Tsegaye, R. Putz, B. Boszczyk
The Centre for Spinal Studies and Surgery, Queen's Medical Centre, Nottingham, UK and Ludwig-Maximilians-Universität, Munich, Germany
- SP12** NUCLEOTOMY AND RESTABILIZATION OF THE OVINE AND HUMAN SEGMENT L 3/4. A BIOMECHANICAL COMPARATIVE STUDY
K.J. Schnake, B. Osterholt, F. Kandziora
Spine Center, Center for Musculoskeletal Surgery, Charité-Universitätsmedizin Berlin, Germany
- SP13** CORTICOMOTOR EXCITABILITY OF PARASPINAL MUSCLES IS AFFECTED DIFFERENTIALLY BY INTERVERTEBRAL DISC LESION
P.W. Hodges, M.P. Galea, A. Kaigle Holm, S. Holm
The University of Queensland, The University of Melbourne, Sahlgrenska University Hospital, Brisbane, Australia
- SP14** AUTOLOGOUS POSSIBILITIES FOR OSTEOPROMOTION
S.W.J. Becker, T. Stoll, T. Meury, P. Heini, M. Alini
Spine Center, Orthopaedic Hospital Speising Vienna Austria; Synthes Biomaterials, Switzerland; AO-Research Institute Davos-Platz, Switzerland; Department of Orthopaedics, Surgery, Inselspital, Bern, Switzerland
- CERVICAL SPINE**
Chairs: L PAPAVERO and P. SELL
- SP15** STAGE III ANEURYSMAL BONE CYST TUMOR OF THE CERVICAL SPINE IN A PATIENT WITH A LEFT DOMINANT VERTEBRAL ARTERY: MULTIDISCIPLINARY CHALLENGES AND MANAGEMENT STRATEGY
A. Faundez, E. Tessitore, H. Yilmaz, D. Weber, D. Salvo, A. Kaelin
Service de Chirurgie Orthopédique et de Traumatologie de l'Appareil Moteur, Hôpitaux Universitaires de Genève, Switzerland
- SP16** AN ALTERNATIVE SURGICAL OPTION FOR SPONDYLITIC CERVICAL RADICULOMYELOPATHY: CLINICAL STUDY WITH MINIMUM TWO YEARS FOLLOW-UP
H. Simsek, K. Topuz, M. Kutlay, A. Çolak, M.N. Demircan, A. Ir
Gülhane Military Medical Academy, Haydarpasha Training Hospital, Dept. of Neurosurgery, Üsküdar Istanbul, TR
- SP17** BIOMECHANICAL EFFECTS OF LAMINOPLASTY VERSUS LAMINECTOMY: STENOSIS AND STABILITY
N.R. Crawford, V. Subramaniam, R.H. Chamberlain, S. Baek, S. Safavi-Abbasi, M. Senoglu, V.K.H. Sonntag, N. Theodore
Barrow Neurological Institute, Phoenix, AZ, USA
- SP18** ENDOSCOPIC TRANS-NASAL TRANS-CLIVAL ODONTOIDECTOMY: A NEW APPROACH TO DECOMPRESSION
W.C. Huang, J.C. Wu, H. Cheng
Center for Neural Regeneration, Dept. of Neurosurgery, Neurological Institute, Taipei Veterans General Hospital, Taipei, Taiwan
- SP19** CLINICAL RESULTS OF MUSCLE PRESERVING OPEN DOOR LAMINOPLASTY WITH PLLA LATERAL MASS SCREW ANCHORING
T. Maeno, H. Terai, S. Dozono, K. Takayama, A. Suzuki, H. Toyoda, A. Matsumura, T. Tujio, H. Nakamura, K. Takaoka
Osaka City University Graduate School of Medicine, Osaka, Japan
- SP20** ANTERIOR CERVICAL FUSION WITH A BIO-RESORBABLE COMPOSITE CAGE (TCP/PLLA): CLINICAL RESULTS AT 2 YEARS
J.C. Le Huec, S. Aunoble, R. Meyrat
Spine Unit, Bordeaux university hospital, France

EUROSPINE

SPECIAL POSTER PRESENTATIONS

EXHIBITION AREA

- SP21 THE RELATED FACTOR OF POSTERIOR SHIFT OF SPINAL CORD IN 24 HRS AFTER CERVICAL LAMINOPLASTY
S. Takashi, O. Hironori, N. Yoshihiro
Akita Social Insurance Hospital, Noshiro, Japan

DEFORMITY

Chairs: N. PASSUTI and J. VITAL

- SP22 RISK FACTORS OF LOW BACK PAIN IN CHILDHOOD AND ADOLESCENCE - ASSESSMENT OF SPORTS ACTIVITIES
T. Sato, T. Ito, T. Hirano, O. Morita, R. Kikuchi, N. Endo, N. Tanabe
Division of Orthopedic Surgery, Department of Regenerative and Transplant Medicine, Niigata University Graduate School of Medical and Dental Sciences, Japan

- SP23 PRELIMINARY RESULTS WITH THE UNIVERSAL CLAMP FOR THE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS: A PROSPECTIVE STUDY
B. Ilharborde, E. Morel, Y. Lefevre, F. Fitoussi, A. Presedo, G.F. Penneçot, K. Mazda
Robert Debré Hospital, Paris 7 University, Paris, France

- SP24 ANALYSIS OF PELVIC INCIDENCE IN SPINAL STENOSIS, SPONDYLOLISTHESIS AND LUMBAR DEGENERATIVE KYPHOSIS
J.H. Lee, K.T. Kim, K.S. Suk, J.S. Kim
Kyung Hee University, Seoul, Korea

- SP25 RESULTS OF SPINE TO RIB CAGE DISTRACTION IN THE TREATMENT OF EARLY ONSET SCOLIOSIS
M. Telj, R. Zeller, M. Brayda-Bruno, A. Lovi, G. Grava
Galeazzi Orthopaedic Institute, Milan Italy & Hospital for Sick Children, Toronto, Ontario Canada

- SP26 ABNORMAL EXPRESSION AND ETIOLOGICAL SIGNIFICANCE OF RUNX2 IN MSCS FROM ADOLESCENT IDIOPATHIC SCOLIOSIS
S. Qiang, Q. Yong
Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC

- SP27 ABNORMAL EXPRESSION AND ETIOLOGICAL SIGNIFICANCE OF BMPR- B IN MESENCHYMAL STEM CELLS FROM ADOLESCENT IDIOPATHIC SOLIOSIS
W. Bin, S. Qiang, Q. Yong
Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC

- SP28 THE ROLE OF HYPEREXTENSION FULCRUM GRAPHIES TAKEN UNDER GENERAL ANESTHESIA IN THE EVALUATION OF FLEXIBILITY OF KYPHOSIS IN SCHEUERMANN DISEASE
M. Aydogan, C. Ozturk, O. Karatoprak, M. Tezer, M. Debre, A. Hamazaoglou
Istanbul Spine Center, Florence Nightingale Hospital, Istanbul, Turkey

LUMBAR STENOSIS

Chairs: C. GREENOUGH and E. MUNTING

- SP29 THE DIFFERENT EFFECT OF FLEXION AND EXTENSION ON THE LUMBAR CANAL DIAMETER IN NORMAL AND STENOTIC CANALS: A KINETIC MRI STUDY
F. Wei, A. Alanay, J.J. Abitbol, J. Wang
UCLA Comprehensive Spine Center, Sta Monica, USA

- SP30 ACCURACY, RADIATION AND PROCEDURE TIME - EFFICACY OF MINIATURE ROBOTIC GUIDANCE IN SPINAL SURGERY
M. Hardenbrook, I. Lieberman, A.J. Khanna, R.D. Guyer, J. Wan
Naval Medical Center, Portsmouth, VA, USA; Cleveland Clinic Foundation, Cleveland, OH, USA; Johns Hopkins University, Baltimore, MD, USA; Texas Back Institute, Plano, TX, USA; 5University of California, Los Angeles, CA, USA

- SP31 MINIMUM 2-YEAR RESULTS OF MICOENDOSCOPIC POSTERIOR DECOMPRESSION FOR LUMBAR SPINAL STENOSIS
K. Ikuta, J. Arima, S. Nakano, T. Tanaka, K. Sasaki, O. Tono, T. Watanabe, M. Tamada, M. Oga
Department of Orthopedic Surgery, Hiroshima Red Cross and Atomic-bomb Survivors Hospital, Hiroshima, Japan

EUROSPINE

SPECIAL POSTER PRESENTATIONS

EXHIBITION AREA

- SP32 IS THERE A DIFFERENCE IN CLINICAL OUTCOME BETWEEN USAGE OF LOW AND MEDIUM VISCOSITY PMMA BONE CEMENT IN PERCUTANEOUS VERTEBROPLASTY?
S.P.J. Muijs, M.J. Nieuwenhuijse, P.D.S. Dijkstra, A.R. van Erkel
Leiden University Medical Center, Leiden, NL

- SP33 VERTEBRAL ENDPLATE CHANGES (MODIC CHANGES) POSITIONING AND THEIR RELATIONSHIP WITH LOW BACK PAIN INTENSITY
H.B. Albert, J.S. Soerensen, C. Manniche
The Back Research Center, Part of Clinical Locomotion Science, University of Southern Denmark

- SP34 LUMBAR SPINE DECOMPRESSION IN THE ELDERLY: TO MUCH, TOO LATE? A COMPARISON OF OUTCOMES & COMPLICATIONS
F. Chinwalla, M. Shafafy, J. Nagaria, M.P. Grevitt
Centre for Spinal Surgery, Queen's Medical Centre, Nottingham University Hospitals NHS Trust, Nottingham, UK

- SP35 SURGICAL TREATMENT OF FAILED BACK SURGERY SYNDROME DUE TO SAGITTAL IMBALANCE
J.S. Jang, S.H. Lee, J.H. Min, S.K. Kim, K.M. Han, D.H. Maeng
Gimpo Airport Wooridul Spine Hospital, Seoul, Republic of Korea

14.00-14.45 Special Poster Session 1

These posters are the special posters to be briefly presented orally in the Exhibition Area

LOW BACK PAIN

Chairs: A. HOWARD and F. B. CHRISTENSEN

- SP36** LIDOCAINE CYTOTOXICITY TO THE CARTILAGIOUS TISSUE OF ZYGAPOPHYSIAL (FACET) JOINT
T. Miyazaki, S. Kobayashi, K. Takeno, K. Uchida, T. Yayama, A. Meir, H. Baba
Faculty of Medical Sciences, The University of Fukui, Department of Orthopaedics and Rehabilitation Medicine, Fukui, Japan
- SP37** IN VIVO MEASUREMENT OF LUMBAR FACET JOINT AREA IN ASYMPTOMATIC AND CHRONIC LOW BACK PAIN SUBJECTS
Y. Otsuka, H. S. An, R. S. Ochia, A. A. Espinoza Orías, G. B.J. Andersson, N. Inoue
Rush University Medical Center, Orthopaedic Surgery, Chicago, IL, United States
- SP38** TREATMENT OF LOW BACK PAIN: A RANDOMIZED TRIAL COMPARING GROUP-BASED MULTIDISCIPLINARY REHABILITATION AND INTENSIVE INDIVIDUAL THERAPIST-ASSISTED BACK MUSCLE STRENGTHENING EXERCISE
N. Dufour, G. Thamborg, A. Oefeldt, C. Lundsgaard, S. Stender
Glostrup University Hospital, Rheumatology, Hilleroed, Denmark
- SP39** EFFECTIVENESS OF L2 NERVE ROOT BLOCK FOR SELECTIVE DISCOGENIC LOW BACK PAIN PATIENTS
S. Ohtori, S. Nakamura, M. Yamashita, T. Koshi, Y. Takahashi, M. Yamagata, K. Takahashi
Graduate School of Medicine, Chiba University, Japan, Department of Orthopaedic Surgery, Chiba, Japan
- SP40** MOLECULAR MARKERS THAT DIFFERENTIATE PAINFUL FROM NON-PAINFUL DISCS
Z. Buser, J. Liu, S. Berven, S. Hu, L. Metz, J. Lotz
UCSF, Orthopaedic Surgery, San Francisco, United States
- HNP/SPINAL STENOSIS**
Chairs: D. SAKAI and M. MAYER
- SP41** CAUDA EQUINA SYNDROME: A STUDY OF 50 CASES
S. Dhatt, R. Bahadur
Pgimer, Chandigarh, Orthopaedics, Mohali, India
- SP42** NERVE GROWTH FACTOR RECEPTORS RELATED INFLAMMATORY PAIN DO NOT INCREASE IN DORSAL ROOT GANGLION NEURONS AFTER APPLICATION OF TWO TYPES NUCLEUS PULPOSUS ONTO SCIATIC NERVE IN MICE
M. Yamashita, S. Ohtori, T. Koshi, K. Yamauchi, M. Suzuki, S. Orita, K. Takahashi
Graduate School of Medicine, Chiba University, Department of Orthopaedic Surgery, Chiba, Japan
- SP43** DIRECT APPLICATION OF TNF INHIBITOR ETANERCEPT DOES NOT AFFECT CGRP EXPRESSION AND PHENOTYPIC CHANGE OF DRG NEURONS FOLLOWED BY APPLICATION OF NUCLEUS PULPOSUS ONTO SCIATIC NERVE IN RATS
M. Norimoto, S. Ohtori, M. Yamashita, G. Inoue, K. Yamauchi, T. Koshi, K. Takahashi
Graduate School of Medicine, Chiba University, Department of Orthopaedic Surgery, Chiba, Japan
- SP44** MEASURES OF WALKING IN LUMBAR SPINAL STENOSIS: CRITERION VALIDITY
C. Tomkins, M. C. Battié
University of Alberta, Rehabilitation Medicine, Edmonton, Alberta, Canada
- SP45** LUMBAR SPINAL CANAL STENOSIS STRONGLY AFFECTS HEALTH-RELATED QOL RATHER THAN OSTEOARTHRITIS OF THE KNEE IN COMMUNITY
K. Otani, S.-i. Kikuchi, S.-i. Konno, S. Yabuki, T. Nikaido
Fukushima Medical University School of Medicine, Orthop. Surg., Fukushima, Japan

MUSCLE

Chairs: C. COLLOCA and W. MARRAS

- SP46** ACUTE INSPIRATORY MUSCLE FATIGUE HAS A NEGATIVE EFFECT ON BACK MUSCLE FATIGABILITY IN PERSONS WITH AND WITHOUT LOW BACK PAIN
S. Brumagne, L. Janssens, K. Polspoel, E. Janssens, L. Goddyn, E. Johanson, T. Troosters
University of Leuven, Rehabilitation Sciences, Leuven, Belgium
- SP47** PARASPINAL MUSCLE CROSS-SECTIONAL AREA IN PATIENTS
K. Ishida, H. Yoshimoto, S. Satoh
Eniwa Hospital, Rehabilitation, Eniwa, Japan
- SP48** MEASUREMENT OF VOLUNTARY ACTIVATION OF THE BACK MUSCLES USING TRANSCRANIAL MAGNETIC STIMULATION
P. Strutton, J. Lagan, P. Lang
Imperial College London, Biosurgery & Surgical Technology, London, United Kingdom
- SP49** TRUNK MUSCLE ACTIVITY CAUSED BY 360 DEGREE ROBOTIC TILTING
G. Kawchuk, L.-A. Clayholt, S. Douglas, S. Fitzgerald, A. Willis
University of Alberta, Physical Therapy, Edmonton, Canada
- SP50** EFFECT OF ISOMETRIC HIP ABDUCTION ON THE MULTIFIDUS AND ERECTOR SPINAE MUSCLE ACTIVITIES DURING TRUNK EXTENSION
A. Yuasa, T. Ito, M. Kanayama, D. Togawa, T. Hashimoto, J. Omata
Hakodate Central General Hospital, Rehabilitation, Hokkaido, Japan
- DISC DEGENERATION/CELL BIOLOGY**
Chairs: D. WONG and T. VIDEMAN
- SP51** ASSOCIATION OF THE ASPORIN D14 ALLELE WITH LUMBAR DISC DEGENERATION
K. Cheung, Y Q Song, K. Cheung, D. Ho, S. Poon, K Chiba, Y. Kawaguchi, Y. Hirose, M. Alini, S. Grad, A. Yee, J. Leong, K. Luk, S. Yip, J. Karppinen, K. Cheah, P. Sham, S. Ikegawa, D. Chan
The University of Hong Kong, Orthopaedics and Traumatology, Hong Kong, China
- SP52** IMPROVING THE SAFETY OF GENE THERAPY FOR DISC DEGENERATION: EVALUATION OF A NOVEL GENE REGULATORY SYSTEM
G. Sowa, C. Pacek, H. Georgescu, M. Padidam, Z. Chen, J. Kang
University of Pittsburgh, Physical Medicine and Rehabilitation and Orthopaedics, Pittsburgh, USA
- SP53** NOTOCHORD CELL CONDITIONED MEDIUM STIMULATES MESENCHYMAL STEM CELL DIFFERENTIATION TOWARD A YOUNG NUCLEUS PULPOSUS PHENOTYPE
C. Korecki, J. Iatridis, R. Tuan
University of Vermont, School of Engineering, Burlington, United States
- SP54** EFFECT OF GROWTH FACTORS UNDER THE LOW OSMOTIC CONDITIONS SEEN IN DEGENERATED INTERVERTEBRAL DISCS
K. Takeno, S. Kobayashi, T. Miyazaki, K. Uchida, A. Meir, J. Urban
Faculty of Medical Sciences, The University of Fukui, Department of Orthopaedics and Rehabilitation Medicine, Fukui, Japan
- SP55** PH DOSE RESPONSE OF MESENCHYMAL STEM CELLS: INVESTIGATION OF A CRITICAL FACTOR FOR INTERVERTEBRAL DISC REPAIR
K. Wuertz, K. Godburn, J. Iatridis
University of Vermont, School of Engineering, Burlington, United States

ISSLS

SPECIAL POSTER PRESENTATIONS

EXHIBITION AREA

OSTEOPOROSIS/FRACTURES*Chairs: A. HADJIPAVLOU and K. OTANI*

- SP56 HEALING PROCESS OF THE DELAYED UNION OF VERTEBRAL FRACTURES IN SENILE OSTEOPOROSIS
S. Urayama
Department of Orthopaedic Surgery, Takaoka City Hospital, Takaoka, Japan
- SP57 ARE DXA BMD OF HARVESTED SPECIMENS EQUIVALENT TO PATIENT SCANS?
S. St Clair, J. S. Tan
Cleveland Clinic, Orthopaedics and Neurosurgery, Cleveland, United States
- SP58 A NATION-WIDE OUTPATIENTS-BASED SURVEY OF THE DEGREES OF PAIN, DISABILITY, AND SATISFACTION IN PATIENTS WITH OSTEOPOROTIC COMPRESSION FRACTURES
K-W Kim, K-J Cho, S-W Kim, S-H Lee
St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Department of Orthopedic Surgery, Seoul, South Korea
- SP59 EFFECTS OF VERTEBROPLASTY FOR THE DELAYED PALSY CAUSED BY VERTEBRAL PSEUDOARTHROSIS
F. Saito, K. Takahashi, T. Torio, T. Nomoto, H. Iizuka
Saitama Medical University Hospital, Department of Orthopedic Surgery, Moroyama, Japan
- SP60 ADJACENT VERTEBRAL FRACTURES FOLLOWING VERTEBROPLASTY USING CALCIUM PHOSPHATE CEMENT FOR OSTEOPOROTIC VERTEBRAL FRACTURES
M. Nakano, N. Hirano, Y. Fujita, S. Nogami, Y. Kawaguchi
Toyama Rosai Hospital, Department of Orthopaedic Surgery, Uozu City, Toyama, Japan

BIOLOGY OF FUSION*Chairs: J. KANG and R. JACKSON*

- SP61 POSTEROLATERAL INTERTRANSVERSE LUMBAR FUSION IN NONHUMAN PRIMATES USING OP-1 PUTTY: EFFECT OF DOSE CONCENTRATION ON FUSION RATE
L. Jenis, B. Cunningham, D. Falb, D. Hile, A. Pierce, D. Schrier, Mary E. P. Goad
Boston Spine Group, Orthopaedic Surgery, Boston, United States
- SP62 REPEAT USE OF RHBMP-2 AT AN ADJACENT LUMBAR LEVEL: AN ASSESSMENT OF EFFICACY AND IMMUNOLOGIC RESPONSE
F. Phillips, K. Singh, M. Dumonski, T. Stanley
Rush University Medical Center, Orthopaedic Surgery, Chicago, United States
- SP63 MATRIX PRODUCTION BY HUMAN FETAL CARTILAGE AND SPINE CELLS
A. Quintin, C. Scaletta, S. Jaccoud, S. Gerber, L.-A. Applegate, C. Schizas, D. Pioletti
EPFL STI, Laboratory of Biomechanical Orthopedics EPFL-HOSR, Lausanne, Switzerland
- SP64 COMMONALITIES AND DIFFERENCES IN FRACTURE NON-UNION TISSUES VS BONE MARROW FOR SPINAL FUSION
S. Bajada, K. T. Wright, N. Ashammakhi, J. Richardson, W. Eustace Basil Johnson
Robert Jones and Agnes Hunt Orthopaedic and District Hospital NHS Trust, Centre for Spinal Studies, Oswestry, United Kingdom
- SP65 BONE MARROW MESENCHYMAL STEM CELLS HAVE DISTINCT PHENOTYPIC CHARACTERISTICS COMPARED TO INTERVERTEBRAL DISC CELLS AND MAY BE DIFFERENTIATED TOWARDS INTERVERTEBRAL DISC CELLS VIA CO-CULTURE
J. Hsu, B. Shen, H. Tao, A. Diwan, D. Ma
St Vincent, Haematology Research Unit, Darlinghurst, NSW, Australia

ISSLS

SPECIAL POSTER PRESENTATIONS

EXHIBITION AREA

14.00-14.45 Special Poster Session 2

These posters are the special posters to be briefly presented orally in the Exhibition Area

MOTION PRESERVATION*Chairs: L. JENIS and C. LEHUEC*

- SP66 AN EVALUATION OF INFORMATION ON THE INTERNET OF A NEW DEVICE: THE LUMBAR ARTIFICIAL DISC REPLACEMENT
R. Garcia, P. Messerschmitt, N. Ahn
University Hospitals Case Medical Center, Case Western Reserve University, Orthopaedic Surgery, Cleveland, United States
- SP67 POSTERIOR MOTION PRESERVING IMPLANTS EVALUATED BY MEANS OF INTERVERTEBRAL DISC BULGING AND ANNULAR FIBER STRAINS
F. Heuer, H. Schmidt, H.-J. Wilke
Institute of Orthopaedic Research and Biomechanics, University of Ulm, Ulm, Germany
- SP68 EFFECT OF PROSTAGLANDIN E1 ON INTERMITTENT CLAUDICATION IN LUMBAR CANAL STENOSIS: SIGNIFICANCE OF REDUNDANT NERVE ROOT ON MR IMAGING
K. Takeno, S. Kobayashi, K. Uchida, T. Miyazaki, M. Kubota, A. Meir, H. Baba
Faculty of Medical Sciences, The University of Fukui, Department of Orthopaedics and Rehabilitation Medicine, Fukui, Japan
- SP69 LUMBAR INTERBODY FUSION USING TELAMON PEEK VERSUS TELAMON HYDROSORB FUSION DEVICE. A PROSPECTIVE RANDOMIZED CONTROLLED TRIAL.
T. Jiya, M. Mullender, T. Smit
VUMC, Orthopaedic surgery, Amsterdam, Netherlands
- SP70 ONEYEAR FOLLOW UP OF A MINIMALLY INVASIVE SELF LOCKING INTERSPINOUS IMPLANT. CLINICAL RESULTS AND CT MEASUREMENTS OF FORAMEN SIZE
M. Szpalski, J. Pienazek, R. Gunzburg, L. Ciupik
Iris South Teaching Hospitals, Orthopedics, Brussels, Belgium

POSTURE/KINEMATICS*Chairs: M. NORDIN and T. OXLAND*

- SP71 CHANGES IN THE MECHANICAL PROPERTIES OF THE TRUNK DURING REMISSION FROM LOW BACK PAIN MAY BE ASSOCIATED WITH RECURRENCE
P. Hodges, W. van den Hoorn, A. Dawson, J. Cholewicki
The University of Queensland, CCRE SPINE, Brisbane, Australia
- SP72 CHANGES IN THE QUANTITY AND QUALITY OF MOTION OF A DEGENERATED LUMBAR SPINE DURING FLEXION/EXTENSION: A FINITE ELEMENT MODEL STUDY
L. Ruberté, R. Natarajan, G. Andersson
University of Illinois at Chicago, Department of Bioengineering, Chicago, IL, United States
- SP73 ALTERATIONS IN LUMBAR INTERVERTEBRAL DISC WATER CONTENT IN SEATED POSTURES USING POSITIONAL WHOLE-BODY MRI - A NOVEL IN-VIVO STUDY
W. Bashir, T. Torio, F. Smith, M. Pope
Royal National Orthopaedic Hospital, Clinical Radiology, London, United Kingdom
- SP74 MECHANICAL AND PATHOLOGIC CONSEQUENCES OF SURGICALLY INDUCED LUMBAR SPONDYLOSIS: AN OVINE MODEL USING RADIOSTEREOMETRIC ANALYSIS
D. Ardern, S. Callary, M. Wilby, B. Christensen, B. Vernon-Roberts, R. Fraser, R. Moore
The Adelaide Centre for Spinal Research, Institute of Medical and Veterinary Science; Royal Adelaide Hospital, Adelaide, Australia, Department of Orthopaedics and Trauma, Adelaide, Australia
- SP75 DRIVER REACTION TIME BEFORE AND AFTER TREATMENT FOR LUMBAR RADICULOPATHY
A. Al-khayer, A. Schueler, G. Kruszewski, G. Armstrong, M. P Grevitt
Southern General Hospital, Rehabilitation Medicine, Glasgow, United Kingdom

ISSLS

SPECIAL POSTER PRESENTATIONS

EXHIBITION AREA

LOW BACK PAIN/DISC DEGENERATION

Chairs: M. SZPALSKI and F. PHILLIPS

- SP76** SHARED AND DIFFERENTIAL GENETIC AND ENVIRONMENTAL EFFECTS BY DISC LEVEL AND DEGENERATION PHENOTYPE
M. Battié, E. Levälähti, T. Videman, K. Gill, J. Kaprio
University of Alberta, Department of Physical Therapy, Edmonton AB, Canada
- SP77** SENESCENCE OF NUCLEUS PULPOSUS CHONDROCYTES IN HUMAN INTERVERTEBRAL DISCS
K.W. Kim, K.Y. Ha, J.S. Lee, Y.S. Kim, K.W. Rhyu, K.H. Na
St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Department of Orthopedic Surgery, Seoul, South Korea
- SP78** SHOULD DIFFERENT PERSONALITY GROUPS BE TREATED DIFFERENTLY FOR LOW BACK PAIN?
T. Bendix, P. Havn Sorensen, C. Manniche, A. Indahl
The Back Research Center, - part of Clinical Locomotion Science., Funen Hospital, Ringe and University of Southern Denmark, Ringe, Denmark
- SP79** HOW DOES SURGERY AFFECT SEXUAL DESIRE AND ACTIVITIES IN PATIENTS WITH LUMBAR DISC HERNIATION?
M. Kanayama, J. Omata, Y. Umi, M. Horio, A. Yamaguchi, D. Togawa, T. Hashimoto
Hakodate Central General Hospital, Spine Center, Hakodate, Japan
- SP80** THE EFFECT OF TREATMENT EXPECTATION ON OUTCOME IN PATIENTS WITH INTERVERTEBRAL DISC HERNIATION
J. Lurie, S. Berven, E. Blood, A. N.A. Tosteson, K. Spratt, T. Tosteson, J. Weinstein
Dartmouth Medical School, Medicine, Lebanon, United States

ANIMAL MODELS

Chairs: S.BODEN and N. BOOS

- SP81** ADVERSE EFFECTS OF RED BLOOD CELLS ON INTERVERTEBRAL DISC REGENERATION
R. Hoogendoorn, R. Bank, T. Smit, B. van Royen, F. van Kemenade, V. Everts, M. Helder
VU University medical center, Department of orthopedic surgery, Amsterdam, Netherlands
- SP82** NO DIFFERENCE IN REAL TIME PCR PARAMETERS IN STEM CELL TREATED DEGENERATIVE DISCS. A PORCINE STUDY
M. Bendtsen, X. Zou, H. Stodkilde, C. Bünger
Aarhus University Hospital, Orthopaedic Research Laboratory, Aarhus C, Denmark
- SP83** CHEMICALLY INDUCED MILD INTERVERTEBRAL DISC DEGENERATION MODEL IN THE GOAT
R. Hoogendoorn, T. Smit, R. Bank, V. Everts, M. Helder
VU University medical center, Department of orthopedic surgery, Amsterdam, Netherlands
- SP84** A THROMBIN-INJECTION MODEL OF DISC DEGENERATION IN THE RABBIT
K. Asanuma, Y. Abe, C. Muehleman, H. An, J. Sandy, A. Uchida, K. Masuda
Rush Medical College, Orthopedic Surgery, Chicago, United States
- SP85** INTRADISCAL INJECTION OF RECOMBINANT HUMAN BONE MORPHOGENETIC PROTEIN-7 SIGNIFICANTLY SUPPRESSED THE EXPRESSION OF CYTOKINES AND CATABOLIC ENZYMES IN THE RABBIT ANULAR PUNCTURE MODEL
K. Masuda, R. Pichika, K. Asanuma, H. An, H. Tonomura, M. E. Lenz
Rush Medical University, Orthopedics and Surgery, Chicago, IL, United States

ISSLS

SPECIAL POSTER PRESENTATIONS

EXHIBITION AREA

FRACTURE/DEFORMITY

Chairs: D. SCHLENZKA and P. ROBERTSON

- SP86** LONG-TERM RETROSPECTIVE OUTCOME ASSESSMENT AFTER IN SITU CONTOURING: RESULTS IN 85 PATIENTS SUFFERING FROM IDIOPATHIC SCOLIOSIS
J.P. Steib, P. Charles, I. Bogorin, A. Walter
Hôpitaux Universitaires de Strasbourg, Chirurgie Orthopédique et de Traumatologie du Sport, Strasbourg, France
- SP87** PELVIC COMPENSATORY MECHANISM IN LUMBAR DEGENERATIVE KYPHOSIS (LDK): EVALUATION AND SIGNIFICANCE OF PELVIC COMPENSATORY MECHANISM
J.S. Jang, S.H. Lee, S.K. Kim, J.M. Kim, K.M. Han, D.H. Maeng
Gimpo Airport Wooridul Spine Hospital, Neurosurgery, Seoul, South Korea
- SP88** A CLINICAL AND RADIOLOGICAL IMPACT CLASSIFICATION SYSTEM OF LUMBAR DEGENERATIVE SCOLIOSIS
A. Ploumis, E. Transfeldt, F. Denis, H. Liu, A. Mehbod
Twin Cities Spine Center, Minneapolis, USA; Thessaloniki, Greece
- SP89** AN ANATOMIC STUDY CORRELATING THE POSITION OF THE L5 VERTEBRAL BODY WITH L5/S1 DISC DEGENERATION: DOES A "DEEP SEATED" L5 AFFORD ANY PROTECTION?
S. Qureshi, P. Gause, J. Toy, J. Eubanks, N. Ahn
University Hospitals Case Medical Center, Orthopaedic Surgery, Cleveland, Ohio, United States
- SP90** AN EARLIER VERTEBRAL COMPRESSION FRACTURE PREDICTS SEVERE LASTING PAIN AND DISABILITY AFTER A SUBSEQUENT ONE
N. Suzuki, O. Ogikubo, T. Hansson
Sahlgrenska Academy, Nagoya City University, Nagoya, Japan; Orthopaedics, Gothenburg, Sweden

BIOMECHANICS

Chairs: A. PATWARDHAN and F. BALAGUE

- SP91** BIOMECHANICAL EFFECT DUE TO MACROSCOPIC DEGENERATION IN THE HUMAN LUMBAR INTERVERTEBRAL DISC IS LARGEST UNDER TWISTING MOTION
R. Natarajan, H. Lundberg, H. An, G. Andersson
Rush University Medical Center, Department of Orthopedic Surgery, Chicago, United States
- SP92** THE INFLUENCE OF ROTATION DEFORMITY ON NERVE ROOT STRESS IN DEGENERATIVE LUMBAR SCOLIOSIS: A FINITE MODEL
H.J. Kim, S.H. Moon, H.J. Chun, K.T. Kang, H.M. Lee, H.S. Kim, J.Y. Kim
Yonsei University College of Medicine, Orthopaedic surgery, Seoul, South Korea
- SP93** LOAD SHARING AMONG LUMBAR SPINAL STRUCTURES AFTER NUCLEUS REPLACEMENT
A. Freeman, B. Beaubien, S. Seme
Gustilo Medical Education Center, Minneapolis, MN, United States
- SP94** BIOMECHANICAL ASSESSMENT OF MINIMALLY INVASIVE DECOMPRESSION FOR LUMBAR SPINAL CANAL STENOSIS - A CADAVER STUDY
T. Hamasaki, N. Tanaka, J. Hwan Kim, M. Okada, M. Ochi, W. Hutton
Emory University School of Medicine, VA Medical Center, Orthopaedics, Atlanta, United States
- SP95** ENHANCED BIOMECHANICAL SPINAL FIXATION VIA A THREADED EXPANDABLE SCREW INSERT
P. Glazer
Harvard University, Orthopedic Surgery, Chestnut Hill, MA, United States