



ESM 2012, August 1 - 4, 2012
Aalborg, Denmark



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Accepted Abstracts

Keynotes

presenting author	title of paper
Lindinger Stefan	BIOMECHANICS IN SKIING – LOAD ANALYSES, PERFORMANCE AND PERSPECTIVES
Sinkjær Thomas	SENSORY FEEDBACK DURING NORMAL AND SPASTIC HUMAN WALKING
Skare Nielsen Anne	THE RISE OF MEANINGFULNESS – OR WHAT TO DO WHEN COMPLEXITY SURPASSES HUMAN INTELLIGENCE
Steele Julie	PRESSURE MEASUREMENT IN PRESSURED TISSUES: NEW PERSPECTIVES IN CANCER RESEARCH

presenting author	title of paper
Abboud Rami. J.	STUDED AND BLADED FOOTBALL BOOTS: WHICH ONE TO TRUST?
Agres Alison N.	DEFICITS IN FORWARD PROPULSION REMAIN 2-5 YEARS AFTER UNILATERAL ACHILLES TENDON RUPTURE
Arnold Graham P.	THE IMAR 3D-FORCE SYSTEM: HAVE WE CRACKED IT?
Bakare Michael	FOOT HEALTH: PEDAR SYSTEM CASE STUDY
Behforootan Sara	FRACTURE ANALYSIS OF VERTEBRA WITH FINITE ELEMENT METHOD AND COMPARE IT WITH EXPERIMENTAL DATA
Bernecker, R.	DOES GENU VALGUM AND/OR FLAT FOOT PLAY A ROLE IN DYNAMIC PLANTAR PRESSURES AND STATIC FOOTPRINTS IN OBESE AND NON OBESE CHILDREN?
Bosch Kerstin	EFFECTIVENESS OF GAIT IN CP-CHILDREN – A PILOT INVESTIGATION



Brauner Torsten	SQUAT MOVEMENT QUALITY QUANTIFIED BY PLANTAR PRESSURE DISTRIBUTION IN PATIENTS FOLLOWING TOTAL HIP ARTHROPLASTY
Braunstein Bjoern	MIDSOLE GEOMETRY AFFECTS PLANTAR PRESSURE PATTERN DURING WALKING IN DIABETIC FOOTWEAR
Bus Sicco A.	THE EFFECTIVENESS OF OFFLOADING-IMPROVED CUSTOM FOOTWEAR ON PLANTAR FOOT ULCER RECURRENCE IN DIABETES: A MULTICENTER RCT
Cernekova Martina	LONGITUDINAL STUDY OF CHANGES IN FOOTSTEP FORCE DISTRIBUTION DURING PREGNANCY
Choi Hyunho	ANALYSIS OF GAIT BALANCE CHARACTERISTICS IN OLD HEMIPLEGIA PATIENTS FOR DEVELOPMENT OF REHABILITATION TRAINING SYSTEM
Cotton Nicholas. I.	CYCLING & IMPOTENCY: THE WAY FORWARD!
Crowell Anne	USING PLIANCE AND A PLIANCE DEVELOPED SADDLE TO OPTIMIZE FIT AND COMFORT FOR A HORSE WITH SEVERE SPINAL ABNORMALITIES.
Damm Loïc	PLANTAR PRESSURE DEPENDS ON THE PLAYING SURFACE IN TENNIS
Dang Hiep Vu	INVESTIGATION OF HUMAN-STRUCTURE DYNAMIC INTERACTION USING BIOMECHANICAL MODEL
Dietze Albrecht	PEDOBAROGRAPHICAL FINDINGS AFTER OPERATIVE ANKLE FRACTURE TREATMENT PRELIMINARY RESULTS– A PROSPECTIVE CLINICAL TRAIL
Dietze Albrecht	ARE THERE ANY RELEVANT PEDOBAROGRAPHIC CHANGES BELOW THE METATARSALS AFTER HALLUX VALGUS SURGERY? A SERIES OF LAPIDUS ARTHRODESIS AND ASSOCIATED METATARSAL OSTEOTOMIES
Dinato Roberto C	RELATIONSHIP BETWEEN IMPACT RELATED VARIABLES AND PERCEIVED COMFORT IN DIFFERENT RUNNING SHOE CONSTRUCTION TECHNOLOGIES
Dinato Roberto C	RELATIONSHIP BETWEEN PRESSURE AND VERTICAL FORCE RELATED VARIABLES IN DIFFERENT RUNNING SHOE CONSTRUCTION TECHNOLOGIES
Doht Stefanie	EFFECTIVE COMBINATION OF NEW BONE SUBSTITUTE AND SCREWS IN THE JAIL TECHNIQUE: A BIOMECHANICAL STUDY OF TIBIAL DEPRESSION FRACTURES
Engel Karsten	INTRAARTICULAR FORCE DISTRIBUTION IN THE FEMOROTIBIAL JOINT IS RELATED TO KNEE ADDUCTION MOMENT AND KNEE FLEXION
Engel Karsten	MEASUREMENT ACCURACY IS RELATED TO A HOMOGENOUS PRESSURE DURING THE CALIBRATION.
Eslami Mansour	CAN ORTHOSES AND NAVICULAR DROP AFFECT FOOT MOTION PATTERN DURING RUNNING
Foltynova Barbora	THE INFLUENCE OF HEEL HEIGHT AND OF CONSTRUCTION OF THE HEEL ON PLANTAR



	PRESSURE
Fritz Bettina	COMPARISON OF PLANTAR PRESSURE AND SHAPE CHANGES OF THE FOOT BETWEEN NORMAL WALKING AND WALKING WITH LIFTED SWINGING LEG
Giacomozzi Claudia	INTEGRATED GAIT ANALYSIS OF FLATFOOT: THE POTENTIAL OF APPROPRIATE FOOT MODELS AND ANATOMY-BASED PEDOGRAPHY
Giacomozzi Claudia	FROM 2006 TO 2012: RELEVANT STEPS AND CHANGES IN PLANTAR PRESSURE MEASUREMENT
Hillstrom Howard J	A SIMPLE SCALING RELATIONSHIP FOR CPEI BETWEEN THE EMED-X AND MATSCAN
Hillstrom Howard J	A DISCRIMINANT ANALYSIS TO DISTINGUISH PLANUS, RECTUS AND CAVUS FOOT TYPES
Hu Xinyao	APPLY TIME SERIES MODELING IN GAIT KINEMATIC ANALYSIS DURING SLIPS
Jandova Sona	LATERALITY AND SKATING TECHNIQUES IN CROSS-COUNTRY SKIING
Juliussen Rasmus	COMPUTATIONAL MODELING OF ERGOMETER ROWING
Jandova Sona	LATERALITY AND SKATING TECHNIQUES IN CROSS-COUNTRY SKIING
Juliussen Rasmus	COMPUTATIONAL MODELING OF ERGOMETER ROWING
Kolarova Katerina	RELATIONSHIPS OF SELECTED PARAMETERS OF GAIT TOWARDS THE LATERALITY OF LOWER EXTREMITIES
Koo Do-hoon	BODY PRESSURE MEASURING DEVICE FOR THE PREVENTION AGAINST BEDSORE
Korvas Pavel	CROSS-SECTIONAL COMPARISON OF SELECTED GAIT CHARACTERISTICS OF WOMEN OF DIFFERENT AGE.
Korvas Pavel	FORCE AND PLANTAR CONTACT AREA CHARACTERISTICS DURING PUSH-OFF IN CROSS-COUNTRY SKIING.
Kristiansen Mathias	BENCH PRESS WITH AN UNSTABLE LOAD DOES NOT AFFECT STABILITY
Lehner Stefan	CORRELATION OF THE GOLF HANDICAP AND THE APPLIED PRESSURE VALUES AT THE GRASP OF A GOLF CLUB DURING TEEING OFF
Lehner Stefan	PLANTAR PRESSURE DISTRIBUTION OF DIFFERENT FOOT MODELS DURING CUTTING MOVEMENTS PLANTAR PRESSURE DISTRIBUTION OF DIFFERENT FOOT MODELS DURING CUTTING MOVEMENTS
Lobo Da Costa Paula H.	BALLANCING BAREFOOT IN SINGLE LEG BALLET POSES GENERATES LESS CENTER OF PRESSURE OSCILLATIONS
Löwis P.	SYNCHRONIZATION OF MEASUREMENT SYSTEMS FOR DETERMINING THE PHYSICAL WORK LOAD



McLaughlin Patrick	USING PRESSURE MEASUREMENT TECHNOLOGY IN THE DEVELOPMENT OF A NEW ORTHOTIC DEVICE
Meana-Esteban Alejandro	THE EFFECT OF STRENGTHENING EXERCISES ON GAIT BIOMECHANICS IN PATIENTS WITH DIABETIC PERIPHERAL NEUROPATHY
Mickle Karen. J.	RELATIONSHIP BETWEEN MUSCLE SIZE AND TOE FLEXOR STRENGTH
Mifsud Nicolai. L.	FOOTFALL PATTERNS IN NATURAL MOTION RUNNING SHOES COMPARED TO CONVENTIONAL RUNNING SHOES
Mimar Raghad	THE EFFECTS OF FOOT TYPE AND HERITABILITY ON BALANCE AND PLANTAR PRESSURE DISTRIBUTION IN FEMALE TWINS AGED 18-35 YEARS OLD
Mootanah Rajshree	DOES FOOT TYPE AFFECT STRESS DISTRIBUTION IN THE FIRST METATARSOPHALANGEAL JOINT?
Mullerpatan Rajani. P.	PLANTAR PRESSURE DISTRIBUTION IN INDIAN PEOPLE WALKING WITH VARIED EXTENT OF FOOTWEAR USE
Musil Radek	COMPARISON OF GAIT STAGES IN WOMEN OF DIFFERENT AGE
Musil Radek	COMPARISON OF THE CONTACT AREA OF SOLE AND SURFACE IN COMBATIVE SPORTS USING PEDAR
Nolan Karen J.	CHANGES IN COP DISPLACEMENT WITH THE USE OF A FOOT DROP STIMULATOR IN INDIVIDUALS WITH STROKE
Patlatov Alexander A.	DIFFERENT PLANTAR PRESSURE DISTRIBUTION IMAGES IN CHILDREN WITH CEREBRAL PALSY
Potthast Wolfgang	INFLUENCE OF MUSCLE FORCES ON LOAD DISTRIBUTION IN THE KNEE
Requena-Martínez Aranza	RELATIONSHIP BETWEEN WEIGHT, ACTIVITY LEVEL, INSOLE CHANGES AND PLANTAR PRESSURES.
Ribeiro Ana Paula	STATIC ARCH HEIGHT AND REARFOOT ALIGNMENT ARE ASSOCIATED WITH DYNAMIC PLANTAR PRESSURE PATTERNS DURING RUNNING IN RUNNERS WITH PLANTAR FASCIITIS
Ribeiro Ana Paula	TRANSIENT IMPACT ESTIMATION USING PLANTAR PRESSURE TIME SERIES IN RUNNERS WITH PLANTAR FASCIITIS
Rosenbaum Dieter	YES, WE CAN ... INFLUENCE FOOT LOADING PATTERNS BY DELIBERATELY WALKING WITH IN-TOEING OR OUT-TOEING GAIT MODIFICATIONS
Rosenbaum Dieter	HOW EARLY CAN THE CHILD'S FOOT TYPE BE DETECTED? RETROSPECTIVE ANALYSIS OF LONGITUDINALLY ASSESSED ARCH INDEX VALUES
Roshan Valiollah	THE EFFECT OF WEIGHT-BEARING EXERCISE AND CALCIUM SUPPLEMENTATION ON THE TIBIA GEOMETRY AND MECHANICAL STRENGTH
Røslund Turid	CENTER OF PRESSURE DYNAMICS DURING WALKING IN PATIENTS WITH OSTEOARTHRITIS



Sacco Isabel C. N.	PLANTAR PRESSURE DURING GAIT IN DIABETIC NEUROPATHY: EFFECT OF SEVERITY DEGREE CLASSIFIED BY A FUZZY EXPERT MODEL
Sartor Cristina D.	INFLUENCE OF PHYSICAL THERAPY INTERVENTION ON FOOT ROLLVER PROCESS DURING GAIT OF DIABETIC NEUROPATHIC PATIENTS
Stebbins Julie	CLINICAL RELEVANCE OF ANATOMY-BASED PLANTAR PRESSURE ANALYSIS IN CLUBFOOT
Taylor William R.	GLUCOCORTICOID MEDICATION REDUCES METACARPOPHALANGEAL JOINT STIFFNESS IN PATIENTS AFFECTED BY RHEUMATOID ARTHRITIS
Theodorakos Ilias	ANKLE JOINT LOADING DURING LANDING ON INCLINED SURFACES - MECHANICAL EFFECT OF ANKLE BRACES IN INJURY PRONE SITUATIONS.
Tsvetkova Tatiana L.	DO SIGNIFICANT CHANGES IN FOOT GEOMETRY TAKE PLACE IN MULTIPLE SCLEROSIS PATIENTS WITH DIFFERENT NEUROLOGICAL STATUS?
Waaijman Roelof	PROGNOSTIC FACTORS IN THE CAUSATION OF RECURRENT PLANTAR ULCERATION IN PATIENTS WITH DIABETES
Wearing Scott	BODY COMPOSITION INFLUENCES INDIRECT BUT NOT DIRECT MEASURES OF FOOT ARCH STRUCTURE IN ADULT FEMALES
Won Byeong Hee	ON THE EFFECTIVENESS OF THE NEWLY DEvised ERGONOMIC CHAIR WITH CHEST SUPPORT BY EVALUATION OF MUSCLE ACTIVITY AND CONTACT LOAD
Wunderlich Roshna E.	PLANTAR PRESSURE DISTRIBUTION DURING WALKING IN HABITUALLY BAREFOOT POPULATIONS

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