ISPGR 2003

The Scientia
Sunday, 23 March 2003
to
Thursday, 27 March 2003

Monday, 24 March 2003

Poster Display: Ageing and Balance

Poster Leighton Hall 08:30 AM - 05:00 PM

Effects of Cerebral Blood Flow Changes on Postural Stability

Ms Alison Oates

Evaluation of the effects of alcohol on standing gait

Dr Neil Longridge

Characterization of the instability of elderly persons during one-leg standing

Dr Marcos Duarte

Determinants of reduced functional mobility in healthy elderly women

Ms Nicole Quinn

Effects of ageing on the head and trunk movements during walking

Dr Yasuhiko Takei

Postual stability in elderly persons with gait problem

Prof Kiichiro Taguchi

Postural stability -- a tentative model for clinical understanding

Ms Britt Schumacher Mohr

Differences between young and elderly adults in temporal measurements when crossing over an obstacle Dr Mark Latt

Energetic cost in "Timed up and Go" test in frail older people with postural abnormalities

Patrick Manckoundia for France Mourey

Age-related changes in concentric and eccentric muscle strength in the lower and upper extremity: a cross-sectional study

Ms Kim Delbaere

Decreased trunk angular displacement during sitting down: an early feature of ageing

Ms Veronique Dubost

Poster Display: Anticipatory Postural Control

Poster Leighton Hall

08:30 AM - 05:00 PM

Dance-like pointing with the leg: postural expertise and associated anticipatory postural adjustments Mr Hadrien Cevte

Postural changes induced by low back pain reflect an alternate postural strategy not simply pain Paul Hodges for Lorimer Moseley

Anticipatory postural control and P300 during bilateral arm movement by oddball paradigm *Prof Katsuo Fuiiwara*

Speed and accuracy trade-off during whole body movements in upright standing

Dr Marcos Duarte

Anticipatory postural control and P300 during bilateral arm movements by oddball paradigm in older Ms Michie Shigeiwa

Poster Display: Basic Control Mechanisms

Poster Leighton Hall 08:30 AM - 05:00 PM

8:30am Brain activation patterns during imagined stance and locomotion Erich Schneider for Klaus Jahn

Does the spinal cord understand standing up?

Dr Brian Day

Control Pattern of a Combined Task

Dr Aftab Patla

Air-righting reflex in the decerebrated rat

Mr Ken Masuda

Vertebral column and evolution

Prof Alessandro Nutini

Task-specific neural and biomechanical prerequisite for motor fluidity in rising to walk

Mr François Tremblay

Initial posture and inertial loading of the head and neck influence muscle and joint kinematics in the

Dr Emily Keshner

Whole body modelling: application to rowing an ergometer

Dr Floren Colloud

Medio lateral sway and afferent input in quiet stance

Dr Mark Goss-Sampson

Beyond sliding doors: use of perception-action coupling

Mr Michael Cinelli

Fictive locomotion evoked by stimulation of cervical spinal cord in rats

Mr Sei-etsu Fujiwara

The effect of cerebral functions in erect standing posture

Prof Masahiko Yamamoto

Asymmetries in bilateral vertical jump take-off

Mr Nat Benjanuvatra

Electromyographic activities of the longissimus muscle and kinematics of the trunk and limbs during level, upslope and downslope treadmill walking in cats

Dr Naomi Wada

Initial component of sit-to-stand motor pattern is different from initial component of sit-to-walk motor Dr Aftab Patla

The examination of the quantitative evaluation method of Body Tracking Test (BTT)

Dr Tomoe Yoshida

Evidence that corticospinal pathways facilitate ia presynaptic gating during stance to swing transition

Dr Cyril Schneider

Head in the Direction of the Flow

Ms Kristen Hollands

Poster Display: Falls in the Elderly

Leighton Hall

08:30 AM - 05:00 PM

The development of a validated falls risk screening assessment for use in general practice

8:30am The development of a valid Ms Anne Tiedemann

Poster

Characteristics of physical and psychological factors related to repeated falls in the elderly

Dr Michiko Yuki

Is dual task testing more sensitive to detect gait improvement after a balance training program?

Dr Kamiar Aminian

The effects of 24 weeks whole body vibration training on postural control in the elderly

Dr Sabine Verschueren

Individualised, graded, tailored exercise programs resulting from identification of specific physiological falls risk factors in community-dwellers aged 75 +

Mrs Sally Castell

Can walking aids impede compensatory stepping?

Prof Brian Maki

Gait variability & fractal dynamics of older adults with high level gait disturbances

Jeffrey Hausdorff for Talia Herman

Attention Shifting Between Posture Control and Secondary Cognitive Task: Effects in Aging

Marjorie Woollacott for Joseph Siu

Acceleration patterns of the head and pelvis when walking are associated with risk of falling in community-dwelling older people

Dr Hylton Menz

Associations of age and falls risk with decision and movement components of choice stepping reaction A/Prof Stephen Lord

A randomised controlled trial of weight-bearing versus non-weight-bearing exercise for improving physical ability after hip fracture and completion of usual care

Dr Catherine Sherrington

Poster Display: Foot and Ankle

Poster Leighton Hall 08:30 AM - 05:00 PM

Walking with the Masai Barefoot Technique Ms Jacqueline Romkes

Poster Display: Gait and Gait Perturbation

Poster Leighton Hall

08:30 AM - 05:00 PM

Medial-lateral trunk perturbations during gait along a narrow walkway: influences of the lower field of vision and prior knowledge on foot placement modifications

Mr Stephen Hill

Why do we fail when approaching and stepping over an obstacle after vision was removed five steps before?

Mr Michael Greig

Corticospinal control of human gait and predictibility of environment: a TMS study

Mr Mickael Camus

Online Use of Environmental Information to Modify Adaptive Step

Mr Luiz Santos

Latencies of obstacle avoidance reactions

Mrs Vivian Weerdesteyn

Assessing the reliability of gait velocity

Dr Keith Rome

Instrumented shoes for pathological gait assesment

Mr Arnaud Faivre

Reliability of the gaitrite walkway system for the quantification of temporo-spatial parameters of gait in young and older people

Ms Marcella Mun San Kwan

Biomechanical characterization of walking in shallow water

Dr Marcos Duarte

The Effect of Lateral Arm Raises on Walking Balance

Dr Aftab Patla

Poster Display: Motor Development

Poster Leighton Hall

08:30 AM - 05:00 PM

Movement analysis of the functional reach test in children.

Clarissa Martin for Kate Carroll

Intra- and intersubject variability in gait analysis data in spastic children

Dr Yvonne Janssen-Potten

Balance in Young Ballet Dancers

Dr Dawne Larkin

Body Scheme and postural control in 14-15 year-old teenagers : a proprioceptive neglect hypothesis *Dr Marianne Vaugoyeau*

Locomotor skills and balance strategies in children with internal rotations of the lower limbs

Dr Christine Assaiante

Poster Display: Multi-sensory integration

Poster Leighton Hall

08:30 AM - 05:00 PM

Can postural sway be predicted by ankle proprioception?

Ms Siu Fu

Man against gravity: the control of orientation and that of stabilisation are dissociated

Dr Dominic Perennou

Adaptation of Multi-joint Movements during Postural Disturbances

Prof Rolf Johansson

Effects of hypothermic anesthesia of the feet on vibration-induced body sway and adaptation.

Prof Måns Magnusson

Assessment of the accurate movement performance in patients with complex regional pain syndrome (Type I) before and after additional sympathetic activation

Dr Sasa Radovanovic

Poster Display: Neurological Disorders and Rehabilitation

Poster Leighton Hall

08:30 AM - 05:00 PM

A gait orthosis for paraplegics with a motor-driven hip joint

Dr Yuji Ohta

Balance training effects on recovery of stability in children with cerebral palsy: EMG.

Prof Mariorie Woollacott

Evaluation of efficacy nursing intervention to prevent patients with C.V.A. from falling into a bedridden Dr Kayoko Kawahara

Kinematic model of the spine: study of paraplegic subjects

Dr Didier Pradon

Proprioceptive, Balance and Functional Deficits Across Acute, Subacute and Chronic Ankle Sprain Mr Chich-Haung Richard Yang

Postural sway changes following proprioceptive neuromuscular facilitation

Dr Mark Goss-Sampson

Variable Practice to Facilitate Motor Learning for Countermeasures

Dr Helen Cohen

Effects of a treatment program on balance retraining in patients with cerebellar ataxia

Prof Ray-Yau Wang

Physiotherapy in the rehabilitation of stroke patients. Bobath or motor relearning program? A follow-up 1 and 4 years post-stroke. A randomised, controlled study

Ms Birgitta Langhammer

The effect of pseudomonas aeruginosa infection in rehabilitation and gait of patients with severe burn trauma

Dr Fariba Fayaz

Effects of ankle angle on dynamic knee stability during AFO use in brain injured and spinal cord injured patients

Dr Yvonne Janssen-Potten

Correlation between gait velocity and motor impairment in multiple sclerosis

Prof Philippe Thoumie

Movement time during transfer from sitting to standing and back to sitting in elderly people: comparison between dements and control subjects

Patrick Manckoundia for France Mourey

EMG-analysis of the leg muscles in hemiplegic children with and without hinged ankle-foot orthoses Ms Jacqueline Romkes

Posturography as a screening test for primary orthostatic tremor

Dr Mikael Karlberg

Poster Display: Orthopaedics

Poster Leighton Hall

08:30 AM - 05:00 PM

Post-total knee arthroplasty patients use different strategy for recovery following medial-lateral rotating perturbation

Mr William Gage

Biomechanical study of balance recovery following a forward fall in patients with an anterior cruciate ligament lesion

Prof Philippe Thoumie

Poster Display: Parkinson's Disease

Poster Leighton Hall

08:30 AM - 05:00 PM

Static versus dynamic postural control, Parkinson's disease subjects evaluation

Dr Serge Mesure

Gait changes in naive Parkinson's disease patients

Jeffrey Hausdorff for Rossitza Baltadjieva

The effect of PIRIBEDIL on quiet stance in Parkinson's disease

Dr Ludmila Chernikova

Auditory timing modulation during gait in medicated and unmedicated Parkinson's disease *Prof Quincy Almeida*

Cues to improve gait in parkinsons disease: too much information?

Ms Robyn Galletly

Effect of multiple tasks on gait in subjects with parkinson's disease: a functional test in the home Dr Lynn Rochester

Ambulatory measurement of gait parameters in parkinson's disease: effect of subthalamic stimulation Dr Kamiar Aminian

Quantification of trunk movements during turning in parkinson's disease (PD)

Mr Marten Munneke

Poster Display: Postural Perturbation

Poster Leighton Hall 08:30 AM - 05:00 PM

Postural stability under double-shot transient perturbations

Mr Hisato Ohno

Power spectral analysis of postural and autonomic responses induced by roll visual motion

Dr Mitsuhiro Aoki

The effect of temporal delayed sequences of roll to pitch perturbations on posture control

Mr Christian Grüneberg

Analysis of changes in sensory feedback using imposed disturbances

Prof Akimasa Ishida

Suboptimal Balance Strategy in Persons with Low Back Pain

Ms Nicola Mok

Changes in control of eye movement and upper limb movement with automatization of postural control diring platform oscillation

Mr Hiroshi Toyama

Characteristics of protective stepping strategies in response to multi-directional pulling perturbations in healthy older adults and mild-to-moderate stroke patients

Dr Pei-Fang Tang

Role of vision in control of upper-limb balancing reactions: is arm movement guided by a pre-formed spatial map?

Prof Brian Maki

Effects of vibration on stance and equilibrium

Joyce Fung for Cynthia Thompson

Ability to recover balance depends on base of support size

Mr Quan Hong

Postural control enhancements through consolidation and adaptation

Dr Fredrik Tjernström

Poster Display: Stroke

08:30 AM - 05:00 PM

Poster Leighton Hall
Temporal disorganization of the step-test after stroke

Dr Francine Malouin

Effects of proprioceptive neuromuscular facilitation on balance and mobility performance of individuals with chronic stroke: a preliminary report

Mr Chao I ee

The effect of weight bearing on postural reflexes in stroke

Mr Daniel Marigold

Does Exercise Involving Total Body Reciprocal Training Improve Gait & Balance in Chronic Stroke Survivors?

Prof Denise Gobert

Pusher behaviour in stroke patients: head vs trunk dynamic orientation in roll

Dr Dominic Perennou

Poster Display: Vestibular Function

Poster Leighton Hall 08:30 AM - 05:00 PM

8:30am Can the N3 potential be evoked in normal subjects?

Ms Sally Rosengren

Are asymmetric otolith vestibulo-ocular reponses a predictive factor for idiopathic scoliosis in children?

Dr Sylvette Wiener-Vacher

Postural and perceptual effects of galvanic vestibular stimulation while standing

Dr Richard Fitzpatrick

On gaze direction and postural responses to galvanic vestibular stimulation

Dr Richard Fitzpatrick

Neck muscle responses to abrupt graviational change in human

Dr Mitsuhiro Aoki

Effects of head pitch on the perception of rotation during galvanic vestibular stimulation

Dr Brian Day

Effects of head pitch on the altered gait trajectory produced by galvanic vestibular stimulation

Dr Jane Butler

Changes in angular head position and primary afferent discharge induced by external galvanic vestibular stimulation (GVS) in the guinea pig

Mr Juno Kim

Bilateral lower limb responses evoked by unilateral vestibular stimulation in humans

Dr Jon Marsden

Velocity-dependent Importance of Vestibular Information for Postural Control on Tilting Surfaces

Ms JoAnn Kluzik

Anodal vestibular stimulation does not suppress vestibular reflexes in human subjects

Dr Ann Bacsi

Diagnostic significance of vestibular tests by galvanic stimulation

Dr Toshihisa Murofushi Plenary 1 The Scientia, Ritchie Theatre 09:00 AM - 10:30 AM **Plenary** The semicircular canal system and locomotor behaviour: a comparative and evolutionary perspective 9:00am Prof Fred Spoor 9:30am Electrical stimulation of the lumbar enlargement: a technique to induce stepping in paraplegic Dr Elena Yu Shapkova 10:00am Robotics Gordon Cheng **Basic Control Mechanisms 1** 11:00 AM - 12:30 PM Parallel Session The Scientia, Breakout 1 New protocol for Sit-to-Stand movement 11:00am Mr Demetrio Villanueva 11:15am Symmetry of ground reaction forces during rising to stand Dr Wendy Gilleard Looking around for eye-feet interaction 11:45am Dr Mark Hollands Perception-action coupling: passage through sliding doors 12:00pm Mr Michael Cinelli Parkinson's Disease 1 Parallal Session The Scientia Breakout 2

Parallel S	ession The Scientia, Breakout 2	11:00 AM - 12:30 PM
11:00am	Sensorimotor and clinical factors in the prediction of future falls in Parkinson's Disea	se
	Dr Graham Kerr	
11:15am	Falls and injuries in progressive supranuclear palsy (PSP)	
	Dr Bastiaan Bloem	
11:30am	Proprioception integration and postural orientation in Parkinson's disease	
	Dr Marianne Vaugoyeau	
11:45am	Improving cerebellar patients' eye movements improves their walking	
	Dr Dilwyn Marple-Horvat	
12:00pm	Multiple automatic postural adjustments prior to compensatory stepping in subjects v	with Parkinson's
	Dr Marilee Stephens	
12:15pm	Effects of deep brain stimulation on postural control in Parkinson's disease	
	Dr Fay Horak	

Motor Development

Parallel S	Session The Scientia, Breakout 1	02:00 PM - 03:30 PM
2:00pm	Emergence of postural anticipation in babies coincides with acquisition of independ	ent walking
	Dr Christine Assaiante	
2:15pm	Postural Adjustments for the Control of Impact during Interceptive Action in Children	า
	Ms Annieck Ricken	
2:30pm	Use of the Normalcy Index for assessment of gait abnormalities	
	Demetrio Villanueva for Marianna Romei	
3:15pm	The effect of dual-task demands on postural control in children with Developmental	Coordination
	Sandra Brauer for Leanne Johnston	

Orthopaedics

Orthopaedics		
Parallel S	Session The Scientia, Breakout 2 02:00 PM - 03:30 PM	
2:00pm	Presurgery knee joint loading patterns predict development of anterior knee pain after total knee Ms Anne Smith	
2:15pm	Stabilisation of the knee joint during gait: implications for the development of knee osteoarthritis Ms Daina Sturnieks	
2:30pm	Neuromuscular control in anterior cruciate ligament deficient and uninjuried people Prof Thomas Buchanan	
2:45pm	Voluntary activation failure of knee muscles in patients with acl deficiency and resconstruction Dr Shih-Fen Hsiao	
3:00pm	A robust gait parameterization technique for hip arthroplasty outcome evaluation Dr Kamiar Aminian	
	Anticipatory Postural Control	
Parallel S	Session The Scientia, Breakout 1 04:00 PM - 05:30 PM	
4:00pm	Anticipatory postural adjustments associated with grasping a distant object with forward stepping movements	
	Prof Gantcho Gantchev	
4:15pm	Motor cortex may be involved in feedforward postural responses of the deep trunk muscles Dr Paul Hodges	
4:30pm	Relationship Between Motor Unit Activity of Medial and Lateral Vasti Muscles Ms Rebecca Mellor	
4:45pm	Postural constraint on locomotion triggering during step initiation Dr Marie-Laure Mille	
5:00pm	Linear + Angular Foot Nystagmus: A Novel Perspective on the Control of Curvature in the Trajectory of Forward Locomotion Prof Geoffrey Melvill-Jones	
5:15pm	Prof Geoffrey Melvill-Jories Postural sway-tremor interactions during quiet stance	
o. ropin	Dr Steven Morrison	
	Ageing and Balance	
Parallel S	Session The Scientia, Breakout 2 04:00 PM - 05:30 PM	
4:00pm	Changes in postural stability in women aged 20 to 80 years Mrs Nancy Low Choy	
4:15pm	Neuromuscular and behavioural influences on reaching performance in young and elderly women Mr Fabio Feldman	
4:30pm	Mediolateral changes in postural stability with age when stepping Mr Kevin Sims	
4:45pm	Altered balance and gait in elderly hypertensives: association between fractal index of gait and blood pressure	
4:00pm	Dr Jeffrey Hausdorff Feedback and feedforward postural responses to continuous perturbations: age-related changes in balance control	
5:00pm	Ms Nicoleta Bugnariu Dynamic Stablity During Stair Descent in Older Adults Dr Kate Hamel	
5:15pm	Anticipation of slippery floors and biomechanics of slips Dr Rakié Cham	

Tuesday, 25 March 2003

Plenary 2 - Clinical

Plenary	The Scientia, Ritchie Theatre	08:30 AM - 10:00 AM
8:30am	Diagnosis and management of patients with Parkinson's disease Dr Bastiaan Bloem	
9:00am	Clinical diagnosis and management of patients with vestibular disorders Michael Halmagyi	
10:00am	Effects of surgical interventions in patients with Parkinson's disease Prof Philip Thompson	
	Vestibular Function	
Parallel S	Session The Scientia, Breakout 1	10:30 AM - 12:30 PM
10:30am	Galvanic vestibular stimulation alters elbow proprioception	
	Ms Joanna Knox	
11:00am	Idiosyncrasy of the subjective visual horizontal/vertical after unilateral vestibular dea Dr Anna Hafstrom	afferentation
11:15am	Head and eye movements during turning and centrifugation Dr Steven Moore	
11:30am	Vestibular activation by bone conducted sound	
	Dr Miriam Welgampola	
11:45am	Vestibular Screening Tests	
12:00pm	Ms Rebecca St George When is vestibular information important during walking?	
12.00pm	Dr Leah Bent	
12:15pm	Gait Ataxia and Balance Improve After Vestibular Rehabilitation	
-1	Dr Helen Cohen	
	Parkinson's Disease 2	
Parallel S	Session The Scientia, Breakout 2	10:30 AM - 12:30 PM
10:30am	The Stochastic Structure of Postural Sway in Parkinson's Disease Dr John Jeka	
10:45am	Training effect of audio-visual cues on sit-to-stand in patients with Parkinson's disea Dr Margaret Mak	ase
11:00am	Acceleration patterns of the head and pelvis in people with Parkinson's disease Dr Mark Latt	
11:15am	Changes in muscular activity at the onset of freezing in patients with Parkinson's dis Dr Alice Nieuwboer	sease
11:30am	The effects of visual cues on gait on the biomechanics and motor control of gait in <i>Prof Meg Morris</i>	parkinson's disease
11:45am	Relative contributions of visual and proprioceptive inputs during locomotion towards Parkinson's disease	s a target in
	Prof Quincy Almeida	
12:00pm	Hysteresis effects of systematic speed manipulations on stride parameters in Parkir Dr Erwin van Wegen	nson patients

Wednesday, 26 March 2003

Plenary 3 - Falls in the Elderly

Plenary 8:30am	The Scientia, Ritchie Theatre Reducing falls: from epidemiology and impaired function to prevention trials	08:30 AM - 10:00 AM
	Prof John Campbell	
9:00am	Physiological risk factors for falls A/Prof Stephen Lord	
10:00am	Balance confidence modifies postural control Prof Jim Frank	
	Gait and Gait Pertubation	
	Session The Scientia, Breakout 1	10:30 AM - 12:30 PM
10:30am	The Developent and Accuracy of Portable Motion Sensors Dr Jan Jasiewicz	
10:45am	Pre-planned online turns: relationships between the pelvis and the inner foot Ms Frances Huxham	
11:00am	Strategy of dividing attention between between walking and different cognitive tasks Ms Veronique Dubost	s in healthy young
11:15am	Dynamic index of control of equilibrium during gait (D.I.C.E) Dr Manh Cuong Do	
11:30am	Adaptation of gait in elderly women after sudden reduction of environmental lighting Dr Rolf Moe-Nilssen	
12:00pm	The Influence of Cadence on Locomotor Adaptation to the Rotating Circular Treadm Dr Gammon Earhart	nill
12:15pm	Age-related decline of gait control under a dual-task condition Ms Veronique Dubost	
	Falls in the Elderly	
Parallel S	Session The Scientia, Breakout 2	10:30 AM - 12:30 PM
10:30am	Psychological Factors Associated with Falls in Community-Residing Older Adults <i>Prof Debra Rose</i>	
10:45am	Reduced hip extensor strength and increased weight are associated with falling in h Ms Nicole Quinn	ealthy elderly women
11:00am	Physical frailty and avoidance of activities Ms Kim Delbaere	
11:15am	Predictors of falls: bivariate and multivariate analyses Prof Astrid Bergland	
11:30am	Resolving conflicts in task demands during balance recovery: does holding an object compensatory grasping? Prof Brian Maki	et inhibit
11:45am	Sensory-challenge balance exercises improve performance on multisensory reweig balance measures in the fall-prone elderly	hting and clinical
12:00pm	John Jeka for Leslie Allison Strength or agility training significantly reduces fall risk compared to posture training old women with low bone density: a six month RCT	in 75 to 85 year
12:15pm	Ms Teresa Liu-Ambrose Comparison of two types of exercise regimes on selected functional abilities for comelderly at risk of falling	nmunity-dwelling
	Ms Jorunn Helbostad	
Darollal 6	Multi-Sensory Integration	04:30 DM 03:00 DM
Parallel S 1:30pm	Session The Scientia, Breakout 1 Co-existing Multicomponent Postural Coordination Patterns	01:30 PM - 03:00 PM
1.50μπ	Dr John Jeka	
1:45pm	Postural control shifts with sensory discordance Dr Emily Keshner	

2:00pm	Coordination of gaze and body movements during simultaneous horizontal gaze shi perturbation	ft and yaw surface
	Ms Caroline Paquette	
2:15pm	Effects of optical blur on postural stability Dr Graham Kerr	
2:30pm	Vibration to the posterior neck evokes fast emg responses of the lower leg, but mas <i>Prof Måns Magnusson</i>	toid vibration does not
2:45pm	Multisensory reweighting in the fall-prone elderly: Comparison to healthy young and John Jeka for Leslie Allison	older adults
	Stroke	
Parallal 9	Session The Scientia, Breakout 2	01:30 PM - 03:00 PM
	Effects of CNS lesions on Balance during Standing and Walking	01.30 FW - 03.00 FW
1:30pm	Dr Joyce Fung	
1:45pm	Verticality perception in pusher patients:ipsi or contralatéral bias?	
2.0000	Dr Dominic Perennou	
2:00pm	Limb Position Sense Altered During Locomotion Post Stroke Prof David Brown	
2:15pm	Electromyographic and kinematic characteristics of obstacle avoidance in stroke pa Mr Rob den Otter	tients
2:30pm	Lead and trail limb control during obstacle crossing following stroke	
	Dr Catherine Said	
2:45pm	Strategies to improve walking following stroke	
	Dr Anouk Lamontagne	
	Basic Control Mechanisms 2	
Parallel S	Session The Scientia, Breakout 1	03:30 PM - 05:00 PM
3:30pm	EMG Analysis of A/P Balance During Quiet Standing Prof David Winter	
3:45pm	Participation of holinergic system of neostriatum in regulation of posture ajustment i <i>Prof Ksenia Shapovalova</i>	n dogs
4:00pm	Multiple and parallel CNS mechanisms involved in the elaboration of bipedal locome Dr Futoshi Mori	otion by M.
4:15pm	The Influence of Eye Movements on Postural Sway	
·	Mr Erich Schneider	
4:45pm	Coordination of muscle activity during walking in cat and man	
	Prof Jens Bo Nielsen	
	Neurological Disorders & Rehabilitation	
Parallel S	Session The Scientia, Breakout 2	03:30 PM - 05:00 PM
3:30pm	Cognitive and gait evaluation in normal pressure hydrocephalus: Evaluation before ventriculoperitoneal shunt and comparison to parkinsonian gait	and after
	Prof Jean-Phiippe Azulay	
3:45pm	Pathological gait in patients woth acoustic neuroma Prof Kazuo Ishikawa	
4:00pm	Gait abnormalities in people recently diagnosed with multiple sclerosis Ms Clarissa Martin	
4:15pm	Correlates with poor dual task performance in acquired brain injury Dr Sandra Brauer	
4:30pm	Differential Improvemnts In Joint Position Sense After Balance Training Dr David Lloyd	
4:45pm	Ambulatory system for gait and posture analysis: validation in chronic pain patients cord stimulation	treated by spinal
	Dr Kamiar Aminian	
5:00pm	Learning different postural tasks in patients with poststroke hemiparesis, cerebellar s disease	ataxia and parkinson
	Dr Marat Ioffe	

Thursday, 27 March 2003

Postural Perturbation

Postural Perturbation		
Parallel S	Session The Scientia, Breakout 1	09:00 AM - 11:00 AM
9:00am	Ankle stiffness and human balance during upright standing	
	Dr Alexei Alexandrov	
9:15am	Effects of postural disturbances with fatigued triceps surae muscles or with 20% a Mans Magnusson for Torbjorn Ledin	additional body weight
9:30am	Thresholds for inducing protective stepping responses for the control of human bands of Mark Rogers	alance
9:45am	Role of vision and visual attention in the control of rapid stepping reactions trigger <i>Prof Brian Maki</i>	ed by postural
10:00am	Design of optimal perturbation signals for investigating human postural dynamics Dr Stella Donker	
10:15am	Strategies for avoiding hip impact during sideways falls Prof Stephen Robinovitch	
10:30am	Gaze direction influences postural control of the neck Dr Michel Coppieters	
10:45am	Visual and platform perturbations produce out of plane postural reactions	
	Dr Emily Keshner	
	Foot and Ankle	
Parallel S	Session The Scientia, Breakout 2	09:00 AM - 11:00 AM
9:00am	Control of the flat versus normal foot during walking	
	Dr Adrienne Hunt	
9:15am	The evaluation of flat foot and gait analysis patterns of patients with down syndron Demetrio Villanueva for Manuela Galli	ne
9:30am	Effects of manual manipulations of the ankle and foot on quiet stance in young an Dr Mark Goss-Sampson	d elderly females
9:45am	The Effect of an Accommodative Foot Orthoses on Balance Parameters – pilot st Dr Keith Rome	udy
10:00am	The variation of dynamic foot pressure with gait parameter Mr Yat Chau Law	
10:15am	Force distribution beneath the foot when traversing a sideslope Dr Stephen Urry	
10:30am	Effects of experimentally - induced plantar insensitivity on forces and pressures u normal walking.	nder the foot during
10:45am	Ms Mandy Taylor Ground reaction forces associated with plantar callus formation Dr Kate Springett	
The Debate		
Plenary	The Scientia, Ritchie Theatre	11:30 AM - 12:30 PM