

SBPR 2024

THE ROBERT GORDON UNIVERSITY, ABERDEEN, UK

13th and 14th JUNE 2024

“INNOVATION IN RESEARCH AND MANAGEMENT OF SPINE PAIN”

THURSDAY 13TH JUNE 2024

08.15 – 09.00	REGISTRATION AND REFRESHMENTS	
09.00 – 09.15	WELCOME and INTRODUCTION	Mr Steven Vogel, President, SBPR Prof Nick Fyfe, Vice Principle, RGU
SESSION 1:	GUEST LECTURE:	CHAIR: Steven Vogel
09.15 – 10.00	‘Beyond bias: Exploring issues of trustworthiness in pain research’	Dr Neil O’Connell Brunel University, London, UK
SESSION 2:	OPEN PAPERS:	CHAIRS: Clare Ryan & Valerie Sparkes
10.00 – 11.15	OPENING THE BLACK BOX OF COGNITIVE FUNCTIONAL THERAPY FOR LOW BACK PAIN: A REVIEW OF INTERVENTIONS USING THE TEMPLATE FOR INTERVENTION DESCRIPTION AND REPLICATION (TIDIER) CHECKLIST	<u>Yazeed Qashwa</u> and H Gray

	<p>ULTRASTRUCTURAL ENDPLATE-DISC MAPPING WITH DISCOVERY OF NOVEL PHENOTYPES AND ANATOMICAL STRUCTURES ASSOCIATED WITH VASCULARITY AND DEGENERATION SEVERITY IN HUMANS</p> <p>THE CO-CONSTRUCTION OF 'BACK GUIDE': A STUDENT-LED SELF-MANAGEMENT INTERVENTION TO SUPPORT BACK HEALTH FOR LOCAL AUTHORITY WORKERS.</p> <p>EXPLORING THE ROLE OF TRACE ELEMENTS IN CARTILAGINOUS ENDPLATE & DISC DEGENERATION</p> <p>CHARACTERISTICS OF SCIATICA PATIENTS LISTED FOR A SPINAL EPIDURAL STEROID INJECTION AND CLINICAL OUTCOMES: RESULTS FROM THE POISE COHORT STUDY</p>	<p><u>Amber Salman (NI)</u>, K Baig, A Chee, AA Espinoza Orias, D Samartzis, U Zehra</p> <p><u>Bethan Heberd (NI)</u>, C Rooke, K Burton</p> <p>A Salman, K Baig, A Chee, AA. Espinoza Orias, D Samartzis, <u>Uruj Zehra</u></p> <p><u>Siobhan Stynes</u>, N. Daud, A Cherrington, K.I.E Snell, K. Konstantinou, J O'Dowd, R Ostelo, K.M Dunn, N.E Foster</p>
11.15 – 11.45	REFRESHMENTS, EXHIBITORS AND POSTER VIEWING	
SESSION 3:	SPECIAL POSTER SESSION	CHAIRS: David Hohenschurz-Schmidt & Michael Reddington
11.45 – 12.45	<p>PATIENTS' AND PHYSIOTHERAPISTS' PERSPECTIVES OF TREATMENT OUTCOMES AND EXPERIENCES IN PRIMARY CARE EPISODES OF LOW BACK PAIN</p> <p>TRUNK MUSCLE MASS MEASURED BY BIOELECTRICAL IMPEDANCE ANALYSIS REFLECTING THE CROSS-SECTIONAL AREA OF THE PARAVERTEBRAL MUSCLES AND BACK MUSCLE STRENGTH</p> <p>STANDARD AND BIOPSYCHOSOCIAL OSTEOPATHIC MANAGEMENT FOR PATIENTS WITH NON-SPECIFIC LOW BACK PAIN (THE OSCAR STUDY): A SINGLE CASE EXPERIMENTAL DESIGN</p> <p>A COMPARATIVE ANALYSIS OF LUMBAR INTERVERTEBRAL MOTION BETWEEN LOW BACK PAIN SUB-GROUPS AND HEALTHY CONTROLS USING QUANTITATIVE FLUOROSCOPY</p> <p>DEVELOPMENT AND INITIAL TESTING OF A BRIEF, GENERIC SELF-REPORTED DISABILITY QUESTIONNAIRE: THE UNIVERSAL DISABILITY INDEX</p>	<p><u>Carrie J Fewins-Scales</u>; R Chau; L Roberts</p> <p><u>Hamidullah Salimi</u>, S Ohyama, H Terai, Y Hori, SH Takahashi, M Hoshino, A Yabu, A Kobayashi, T Tsujio, S Kotake, H Nakamura</p> <p><u>Jerry Draper-Rodi</u>, H Abbey, K Brownhill, S Vogel</p> <p>J Rix, <u>Alister du Rose</u>, F Mellor, D De Carvalho, A Breen</p> <p><u>David W Evans</u></p>

	<p>MEASURING THE PREVALENCE, SEVERITY AND SOURCES OF DISABILITY: A NEW APPROACH</p> <p>“THERE’S MY BACK, DO WHAT YOU WANT!”: PATIENTS’ EXPECTATIONS OF TREATMENT FOR LOW BACK PAIN</p> <p>EFFECT OF SPINAL FUSION ON BIOMECHANICS OF FACET JOINTS: SYNCHRONISED SPATIO-TEMPORAL AND MECHANICAL ANALYSIS</p> <p>BERTOLOTTI’S SYNDROME: DIAGNOSIS AND TREATMENT</p> <p>AN EXPLORATION OF MOVEMENT AND HANDLING BY PHYSIOTHERAPISTS IN A REHABILITATION SETTING: A MOTION ANALYSIS STUDY</p>	<p><u>David W Evans</u>, K Brownhill</p> <p><u>Hannah Penney (NI)</u> & LC Roberts</p> <p><u>James P Warren</u>, AL Khan, M Mengoni</p> <p><u>Arthur L. Jenkins III</u>, C Harvie, J O’Donnell, S Jenkins</p> <p><u>Katharine Johnson</u>, Anastasia Pavlova, Paul Swinton, Kay Cooper</p>
12.45 – 13.15	POSTER VIEWING - with poster presenters available for questions	
13.15 – 14.15	LUNCH, EXHIBITORS AND POSTER VIEWING	
SESSION 4:	OPEN PAPERS:	CHAIRS: Siobhan Stynes & Lianne Wood
14.15 – 15.45	<p>THE ASSOCIATION BETWEEN INDIVIDUAL LUMBAR INTERVERTEBRAL DISC DEGENERATION FEATURES AND LOW BACK PAIN IS MODIFIED BY GENETIC PROPENSITY TO PAIN</p> <p>“GO AND GET IT CHECKED”: EXPLORING THE DECISION TO ATTEND THE EMERGENCY DEPARTMENT FOR LOW BACK PAIN</p> <p>THE FORECAST STUDY: FACTORS PREDICTING PAIN PERSISTENCE IN SCIATICA. AN UPDATE ON BASELINE AND PRELIMINARY LONGITUDINAL DATA</p> <p>“I CAN’T TAKE IT ANYMORE”: THE EXPERIENCE OF BEING MANAGED FOR SUSPECTED CAUDA EQUINA SYNDROME IN THE EMERGENCY DEPARTMENT</p>	<p>P. Suri, M. Kazemi-Naini, M.B. Freidin, Y. Tsepilov, E. Elgaeva, I. Granville-Smith, R. Compte, <u>Frances MK Williams</u></p> <p><u>Holly Whitcomb (NI)</u>, LC Roberts, C Ryan</p> <p><u>Lucy Ridgway</u>, S Koushesh, M Tachrount, F Probert, K Martin, W Scott, G Crombez, C Price, C Robinson, S Clare, J Fairbank, G Baskozos, AB Schmid</p> <p><u>Riva Karia (NI)</u>, LC Roberts, C Ryan</p>

	<p>NOVEL METHODOLOGY FOR DEVELOPING A MACHINE LEARNING BASED IMAGING TOOL FOR HYBRID VISUALIZATION OF MACROSCOPIC AND MICROSCOPIC DEGENERATIVE CHANGES IN THE INTERVERTEBRAL DISC</p> <p>WILLINGESS TO RANDOMISE PATIENTS TO LUMBAR SPINE FUSION SURGERY OR CONSERVATIVE CARE IN THE FORENSIC-UK AND FORENSIC-AUSTRALIA TRIALS</p>	<p><u>Polly Lama</u>¹, T Dolan, MA Adams</p> <p><u>Nadine E Foster</u>, E Bada, P Window, M Stovell, S Ahuja, D Beard, A Gardner</p>
15.45 – 16.15	REFRESHMENTS, EXHIBITORS AND POSTER VIEWING	
SESSION 5:	GUEST LECTURE:	CHAIR: Anastasia Pavlova
16.15 – 17.00	‘Innovations in Non-Pharmacological Trials: The Roles of Explanatory and Pragmatic Designs’	Dr David Hohenschurz-Schmidt Imperial College London, UK
17.00 – 18.00	SBPR AGM	
19.30 - Midnight	PRE-DINNER DRINKS / CONFERENCE DINNER / CEILIDH THE SANDMAN HOTEL	

FRIDAY 14TH JUNE 2024

08.45 – 09.00	REGISTRATION	
SESSION 6:	THE 2022 DISCS HENRY V CROCK LECTURE	CHAIR: Christine Le Maitre
09.00 – 09.45	‘Complex physiological loading of the spine’	Professor Tim Holsgrove University of Exeter, Exeter, UK
SESSION 7:	OPEN PAPERS:	CHAIRS: Mukta Vadhva & Richard Harker
09.45 – 10.45	<p>DELIVERY AND DIFFERENTIATION OF A REGENERATIVE CELL SOURCE AND IMMUNOGENICITY TESTING: A BIOMATERIAL FOR INTERVERTEBRAL DISC REPAIR</p> <p>CONTRASTING CULTURES OF EMERGENCY DEPARTMENT CARE: A QUALITATIVE STUDY OF PATIENTS’ EXPERIENCES OF ATTENDING THE EMERGENCY DEPARTMENT FOR LOW BACK PAIN</p> <p>MENOPAUSE AND PARITY ARE ASSOCIATED WITH LUMBAR SPINE CURVATURE</p> <p>POTENTIAL CAUSAL ASSOCIATION BETWEEN HUMAN CYTOMEGALOVIRUS INFECTION AND CHRONIC BACK PAIN: A ONE-SAMPLE MENDLIAN RANDOMIZATION STUDY</p>	<p>Joseph Snuggs, C Ciccione, A Vernengo, M Tryfonidou, S Grad, G Vadala, CL Le Maitre</p> <p>Clare Ryan, C.J. Pope, and L.C. Roberts</p> <p>Fiona R Saunders, J Parkinson, RM Aspden, T Cootes, JS Gregory</p> <p>M. Kazemi Naeini, M. B. Freidin, I. Granville Smith, S. Ward, Frances MK Williams</p>
10.45 – 11.15	REFRESHMENTS, EXHIBITORS AND POSTER VIEWING	
SESSION 8:	GUEST LECTURE:	CHAIR: Val Sparkes
11.15 – 12.00	‘Advances in Digital and Health Technologies for Management for Spine Pain’	Dr Liba Sheeran Cardiff University, Cardiff, UK

SESSION 9:	OPEN PAPERS:	CHAIRS: Jude Meakin & Clare Ryan
12.00 – 13.00	<p>“YOU THINK YOU’VE GOT THEM ON BOARD AND THEN THEY’RE BACK”: PRIMARY CARE CLINICIANS’ EXPERIENCES OF OFFERING SELF-MANAGEMENT ADVICE TO PEOPLE WITH BACK PAIN</p> <p>GRAM POSITIVE BACTERIA WITHIN THE INTERVERTEBRAL DISC AND THEIR POTENTIAL INFLUENCE</p> <p>EVALUATING IMPACT OF GETUBETTER, A DIGITAL SELF-MANAGEMENT SUPPORT TOOL, DEPLOYED TO 14,500 PATIENTS ON A COMMUNITY MSK PHYSIOTHERAPY WAITING LIST</p> <p>VITAMIN D RECEPTOR GENE POLYMORPHISM WITH A NOVEL SNP IS ASSOCIATED WITH RISK & SEVERITY OF SPINE TB</p>	<p><u>Lisa Osborn-Jenkins</u>, J Turnbull, AWA Geraghty, LC Roberts</p> <p>A. Nüesch, E. Kanelis, L. Alexopoulos, F. Williams, L. Geris, B. Gantenbein, M.Lacey, L. Breakwell, <u>Christine Le Maitre</u></p> <p><u>Richard Husselbee</u>, I Nowak</p> <p><u>Uruj Zehra</u>, S Ejaz, MS Ilyas, I A, A Aziz</p>
SESSION 10:		
13.00 – 13.05	TRAVEL FELLOWSHIP PRESENTATION	
13.05 – 14.00	LUNCH, EXHIBITORS AND POSTER VIEWING	
SESSION 11:	DEBATE:	CHAIR: Steve Vogel
14.00 – 15.00	‘This House believes that, on balance, technology is a hindrance to research and management of low back pain’	<p><u>Motion for:</u> Dr Mukta Vadhva Prof Nadine Foster</p> <p><u>Motion against:</u> Dr Liba Sheeran Prof Tim Holsgrove</p>
15.00 – 15.15	PRESENTATION OF AWARDS AND CLOSE	

POSTERS

EXPRESSION OF TGFB1 & DEGENERATIVE CHANGES IN THE PARASPINAL MUSCLES OF SCOLIOTIC PATIENTS

Uruj Zehra, K Fatima, A Shah, MS Ilyas, A Aziz

MOBILE HEALTH APPS FOR THE SELF-MANAGEMENT OF LOW BACK PAIN: SYSTEMATIC SEARCH IN APP STORES AND CONTENT ANALYSIS

Tianyu Zhou, D. Salman, A.H. McGregor

"I JUST WANTED TO GET THE PAIN OUT OF THE WAY": WHY PEOPLE WITH SIGNS AND SYMPTOMS OF SUSPECTED CAUDA EQUINA SYNDROME ATTEND THE EMERGENCY DEPARTMENT

Benjamin Wakefield (NI), LC Roberts, C Ryan

SPINOPELVIC PARAMETERS IN SCOLIOTIC PATIENTS AND THEIR ASSOCIATION WITH PAIN

Uruj Zehra, MS Ilyas, A Aziz

A REALIST EVALUATION OF A SELF-MANAGEMENT FOR CHRONIC LOW BACK PAIN

Rebecca Hunter, M Beattie, A Zubala, T Gorely

COGNITIVE MUSCULAR THERAPY FOR LOW BACK PAIN

SJ Preece, J Smith, **Nathan Brookes (NI)**, D Ghio

PUBLIC AND PATIENT ENGAGEMENT IN RESEARCH TO DEVELOP TECHNOLOGIES FOR PREDICTING SPINE LOADS IN VIVO

J Williams, **Judith R Meakin**, N Whitehead, A Mills, D Williams, MC Ward, E Kelly, D Shillabeer, AA Javadi, TP Holsgrove, C Holt

DISC DEGENERATION INFLUENCES TRABECULAR BONE STRAINS MORE UNDER FLEXION THAN AXIAL COMPRESSION

Kay Raftery, S Tavana, N Newell

A META-ANALYSIS COMPARING THE CLINICAL OUTCOMES OF LUMBAR FUSION AND DYNAMIC STABILISATION

Rebecca Williams, S. Evans, C. Le Maitre, A. Jones

THE IMPACT OF IMMERSIVE VIRTUAL REALITY ON PAIN PROCESSING AND PATIENT-REPORTED OUTCOME MEASURES IN PEOPLE WITH PERSISTENT LOW BACK PAIN: PRELIMINARY RESULTS

Mohammed Nasser Alghamdi, V Sparkes, S Khot, JL Davies

IMMERSIVE VIRTUAL REALITY FOR PATIENTS WITH CHRONIC LOW BACK PAIN: A MIXED-METHODS FEASIBILITY STUDY IN THE KINGDOM OF SAUDI ARABIA

Fahad Salman Alotibi, Paul Hendrick, and Fiona Moffatt

MODIFICATION OF SAGITTAL PROFILE AND ITS RELATIONSHIP TO CLINICAL OUTCOMES, QUALITY OF LIFE AND HEIGHT 2 YEARS AFTER CORRECTIVE SURGERY IN ADOLESCENT IDIOPATHIC SCOLIOSIS PATIENT

Hamidullah Salimi, H Terai, H Toyoda, K Tamai, H Nakamura, N Shimada

PAIN RELIEF AFTER INSTRUMENTED SPINAL SURGERY

“YOU’RE NOT BLEEDING SO PHONE 111!”: HOW NHS 111 EXPERIENCES INFORM THE DECISION TO ATTEND THE EMERGENCY DEPARTMENT FOR PEOPLE WITH LOW BACK PAIN.

EVALUATING THE MSK HEALTH-STATUS (MSK-HQ) AND MSK CONDITIONS AFFECTING A MINORITISED PRISONER POPULATION ACCESSING PHYSIOTHERAPY IN A UK REMAND PRISON

CO-PRODUCTION OF A PEER SUPPORT PROGRAMME FOR ADULTS LIVING WITH CHRONIC NON-CANCER PAIN USING INTERVENTION MAPPING

PHYSIOTHERAPISTS’ VIEWS ON PATIENT HANDLING, WORK-RELATED MUSCULOSKELETAL DISORDERS AND THE POTENTIAL ROLE OF TARGETED EXERCISE IN PREPARING FOR OCCUPATIONAL DEMANDS

A PILOT STUDY TO EVALUATE WHETHER TRAINING INFLUENCES SPINE KINEMATICS DURING MANUAL HANDLING MANOEUVRES IN PHYSIOTHERAPY STUDENTS

MANUAL PATIENT HANDLING IN THE HEALTHCARE SETTING: A SCOPING REVIEW

THE MANAGEMENT OF OSTEOPOROTIC VERTEBRAL FRACTURES IN A DISTRICT GENERAL HOSPITAL

MJ Wilson, A Cole, D Hewson, D Hind, M Hyslop, A Keetharuth, A Macfarlane, B Martin, G McLeod, I Rombach, L Swaby, **Shiva Tripathi** and M Wilby

Lucy Mouton (NI), LC Roberts, C Ryan

Damien Kimber, R Husselbee, L Brown, C Ruffinato

Tom Herbert (NI), M Malone, N Rhind, K Cooper

Anastasia Pavlova, Kay Cooper, Janet Deane, Erin Hart-Winks, Rebecca Hemming, Katharine Johnson

Sue Annetts, R. Hemming

Katharine Johnson, Anastasia Pavlova, Paul Swinton, Kay Cooper

Aashish Raghu, M. Kapilan, M. Ibrahim, S. Mushtaq, T. Sherief