# Centre for Health, Activity, and Rehabilitation Research (CHARR) School of Physiotherapy, University of Otago Research Highlights 2017

#### Kia ora

2017 was a successful year for our research centre, CHARR. We have highlighted some of those successes below, and hope you enjoy reading about them.

We were awarded our highest monetary value in research grants to date, over \$2.5 million in funding support. In a signal of the importance of collaboration, many of these grants are with other Departments and Schools around the University, and in many cases with other Universities here in New Zealand and overseas. Regardless of the size of the funding received, these awards all contribute towards the growing profile of CHARR as a preeminent research Centre for Physiotherapy.

Our publication record continues to be not only impressive in quantity but also in quality with many staff publishing in leading rehabilitation journals. A review of the last 10 years of publication data showed 2017 to be our highest number of publications to date within 12 months (161).

Members of our team were recognized for their contributions to research. Notably, David Baxter was awarded the prestigious Inaugural Chaffer Medal from the Division for Health Sciences, University of Otago. The Chaffer Medical is a new annual award offered for the first time in 2017 by the Otago Postgraduate Medical Society for distinguished performance in health research. This is an impressive achievement, and we are very proud of Dave.

Our postgraduate programmes continues to be a vital part of CHARR and we were pleased to welcome four new PhD and Masters by Research candidates from New Zealand and around the world. Finally, we congratulate three of our PhD candidates, Lizhou Liu, Leon Mabire, and Aleksandra Macznik, who graduated in 2017.

If you would like any further information on any of our research, contact: <a href="mailto:physio.reasearch@otago.ac.nz">physio.reasearch@otago.ac.nz</a>

#### Leigh Hale

Professor and Director, Centre for Health, Activity, and Rehabilitation Research

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# Funding awards 2017

In 2017 CHARR staff, graduate and undergraduate students received a total of 25 grants as Primary Investigators, totalling over \$2,5 million. Staff were also successful as co-investigators on a large number of grants.

Investigator	Title	Agency
David Baxter (PI), Poonam Mehta, Ram Mani, Cath Smith	Ageing well with Chronic Pain	Lottery Health Research
David Baxter (Lead Mentor), Tobias Hoeta (Student), Ram Mani, Katrina Bryant	Evidence for pain assessment tools sensitive for Māori - a systematic review of literature	HRC Māori Summer studentship
David Baxter (Director)	Men's Health	Men's Health Priming Partnership
Lynne Clay (PI), Megan Webb (Student)	Physical activity and stroke	OMRF Summer Studentship
Hemakumar Devan (PI), Meredith Perry, Leigh Hale	Healthcare providers' attitudes towards recommending online pain self-management resources for people with persistent pain: a mixed method study	NZ Pain Society Cynthia Miller Research Grant
Hemakumar Devan (PI), Rebecca Grainger	Self-management apps for people with persistent pain: A systematic review	Arthritis New Zealand Summer Scholarship Research Grant
Hemakumar Devan (PI)	Conjoint Australia/New Zealand ASM in Sydney	NZ Pain Society Travel Grant
Dora Gosselin (PI, PhD candidate)	The impact of unpredictability on gait biomechanics and mobility based participation in children with cerebral palsy	Academy of Paediatric Physical Therapy grant

Dora Gosselin	Gait in Children with Cerebral Palsy:	HPU RASP Quest Grant
(PI, PhD	Differences in initiation, termination and	
candidate)	change of direction	
Dora Gosselin	Relationship Between Selective	Neurodevelopmental
(PI, PhD	Voluntary Motor Control and the Ability	Treatment Association Mini-
candidate)	to Respond to Unpredictability During	Grant
	Gait in Children with Cerebral Palsy:	
	Influences on activity and participation	
Leigh Hale (PI),	Community exercise for long-term	HRC Project, Health Delivery
Chris Higgs, Ram	management of diabetes and	Stream
Mani, Prasath	multimorbidity	
Jayakaran, Jim		
Mann, Tim Stokes, Trudy		
Sullivan, Fiona		
Doolan-Noble,		
Andrew Gray		
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Leigh Hale (Lead Mentor), Louise	Acceptability for the treadmill 6 minute walk test for pacific peoples	HRC Pacific Summer studentship
Jansen (Student),	walk test for pacific peoples	studentship
Chris Higgs,		
Prasath Jayakaran,		
Rose Richards		
Leigh Hale (PI),	Implementing and evaluating the Bridges	PNZ
Lynne Clay,	Stroke Self-Management Programme	
William Levack,	into South Canterbury District Health	
Denise Taylor	Board stroke services: a case study	
Leigh Hale (PI),	Continuous feedback model: a new	CALT
Divya Adhia	model of paper evaluation that enables	
	students as partners in curricular	
	development	
Claire Hargest	A pedometer based walking programme	Neuro Special Interest Group
(PI), Lynne Clay	for people with stroke: a feasibility study	
Ewan Kennedy	INTERact: Embedding inter-professional	IPE grant
(PI), Maree Steel,	education in student clinical placements	
Don Wilson,		
Louise		
Beckingsdale		
Ram Mani (PI),	Central pain mechanisms in middle-aged	UORG
Dirk de Ridder,	and older adults with arthritis.	



Steve Tumilty, David Baxter		
Meredith Perry (PI), Hemakumar Devan, Bernadette Jones, Tristram Ingram, Alister Neill	Uptake and use of non-invasive ventilation in people with neuromuscular disorders: Users and caregivers' experiences.	UORG
Meredith Perry (PI), Hemakumar Devan, John Sullivan, Christina Ergler	How children with disabilities perceive accessing and using parks and playgrounds?	Porirua City Council
Daniel Ribeiro (PI), Gisela Sole, Haxby Abbott	The effectiveness of tailored rehabilitation versus standard exercise programme for patients with shoulder pain: a feasibility randomized controlled trial.	HRC Feasibility
Daniel Ribeiro (PI), Haxby Abbott, Tony Blakely, Sarah Lamb	Process evaluation of trials: maximising the potential for implementation	HRC Hercus Fellowship
Daniel Ribeiro (PI)	Congress of the International Society of Biomechanics - Australia	MPPT Travel
Daniel Ribeiro (PI), Ben Browning (Student)	The effect of manual therapy on shoulder muscle activity	OMRF
Margot Skinner (PI) Sarah Rhodes, Ben Brockway, Debra Waters	Personalised physical activity and motivational text messaging in patients with obstructive sleep apnoea (OSA).	School of Physiotherapy Trust
Gisela Sole (PI), Daniel Ribeiro, Meredith Perry, Nicola Swain, Craig Wassinger	Feasibility of neuroscience-informed physiotherapy for persistent shoulder pain	Jack Thompson Arthritis Fund



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Gisela Sole (PI),	My shoulder has a brain: Patient and	PNZ	
Daniel Ribeiro,	physiotherapists' perspectives of a		
Meredith Perry,	psychologically-informed rehabilitation		
Nicola Swain,	approach for shoulder pain		
Craig Wassinger			
Grants received	Grants received as Associate Investigators		
Katrina Bryant	Taurite Tū: Development of falls	Ngā Kanohi Kitea Development	
(PI) Te Runanga ō	prevention exercise programme for	Grant	
Otākou	Māori		
Leigh Hale and Debra Waters (Independent Advisors)			
Melanie Bussey	Does muscle coordination in the pelvic	UORG	
(PI SPESS), Dan	floor and trunk predict low back pain?		
Ribeiro, Daniela	·		
Aldabe, Stephanie			
Madill			
McKinlay, E. (PI),	Long-term conditions management;	Division of Health Sciences	
Coleman, K. (PI),	Hauora Māori; Implications in	Interprofessional Education	
Darlow, B. (AI),	prescribing.	Support Innovation Fund	
Davidson, R. (AI),			
Gray, B. (AI),			
Neser, H. (AI),			
Perry, M. (AI),			
Pullon, S. (AI).			
Wilson, C.			
NI-:I-II (B)	The Constitution of the Co	I I TI	
Neils Hammer (PI	The functional link between hip joint	Jack Thompson Arthritis Fund	
Anatomy),	mechanoreceptors and neuromuscular		
Melanie Bussey,	control of hip muscles		
Daniel Ribeiro,			
Daniela Aldabe,			
Stephanie			
Woodley,			
Hilda Mulligan	Well Connected	HRC/MOH	
(NI), Mandy			
Wilkinson (NI)			
Dr Yvonne	Engaging the MS community to a reserve	MS Research Australia	
	Engaging the MS community to promote	1713 Neseat CIT Australia	
Learmonth,	exercise		
Murdoch			



University, WA (PI), Cath Smith (AI Otago)		
Aleksandra Mącznik (PI), Steve Tumilty (AI Otago)	Effectiveness of an injury prevention program in young pre-adolescent female athletes.	JSPS Postdoctoral Fellowship
Stephanie Woodley (PI), John Sullivan (AI)	Exercise therapy for women with pregnancy-related pelvic girdle pain: a Delphi study.	PNZ

## **CHARR** research activities

## **CHARR Visitors 2017**

# Visiting academics

Dr Steve Dischiavi (High Point University)
Associate Professor Paul McCrory (University of Melbourne)
Prof Lorna Paul (Glasgow Caledonian University)
Professor Bill Vicenzino (University of Queensland)
Dr Mylene Aubertin (UQAM)

# Visiting students

Dora Gosselin (High Point University, Otago PhD Candidate)
Rasmus Husted (PhD candidate, University of Copenhagen, Denmark)
Lara Vlietstra (Masters candidate, Utrecht University and University Medical Centre Utrecht)

#### **CHARR Research events**

CHARR hosted and co-hosted a significant numbers of events in 2017 including: Sports concussion in kids: what every parent needs to know (March 2017) Postgraduate symposium: "Health, Movement, Cultures, and Lifestyles: Multi-disciplinary Approaches" (November 2017) Research impact: realising the potential (November 2017) Pavements and paradigms: bringing community back into Mobilities (November 2017) CHARR seminar series 2017

## Other events:

WCPT World Congress (July 2017)
New Zealand Manipulative Physiotherapist conference (August 2017)
Making an impact: New Zealand Rehabilitation Conference (September 2017)
Southern Physiotherapy Symposium 8 (October 2017)
Disability Matters (November 2017)

## Research networks and themes

Ageing Well, National Science Challenge Collaboration Ageing Research Excellence (CARE) University of Otago Research Theme Pain@Otago, University of Otago Research Theme



# **PhD Candidates and topics**

# PhD Candidates (2017)

# Primary Supervisor School of Physiotherapy

## N=2I

Algarni, Abdullah Knowledge translation of clinical assessment of pain mechanisms in to

clinical practice.

Bell, Ricky Huarahi Hauora – Identifying a pathway forward to wellness for Māori: an

investigation of the association between BMI, body image and their

relationship to improved health.

Buhler, Miranda The impact of base of thumb osteoarthritis and the effectiveness of orthotic

management

Calder, Ally Access to Physical Activity for men following stroke

Dassanayake, Suranga Risk of obstructive sleep apnoea in poorly controlled hypertension – a study

of two population groups.

Donaldson, Gail Does the use of silicon oil change the post-operative outcomes after

Dupuytrens contracture release surgery?

Gosselin, Dora Gait in Children with Cerebral Palsy: Differences in initiation, termination,

and change of direction.

Emmerson, Alicia Chronic pain in USA, focusing on experience of disadvantaged communities

and undocumented patients

Falling, Carrie Persistent musculoskeletal pain among individuals with immune-mediated

chronic inflammatory conditions.

Hamel, Renne Long-term impact of cardiovascular and respiratory deconditioning on

physical activity intolerance in outpatient adults with moderate and severe

traumatic brain injury.

Jafarian, Zohreh Exploring the effect of shoulder passive mobilisation on shoulder function,

pain and muscle activity levels in patients with shoulder disorders

Kaur Mandeep Outcomes of ACL injuries

Manlapaz, Donald The use of Nintendo Wii Fit™ in improving falls risk, balance and adherence

to exercise in patients with Knee Osteoarthritis

Mesbah, Normala Postural stability in older adults with early diagnosed Alzheimer's disease

Rhodes, Sarah Can physical activity intervention in combination with text messaging

improve quality of life through increased functional exercise capacity and enhanced exercise self-efficacy in adults with obstructive sleep apnoea?



Moran, Rob Musculoskeletal injury prediction in high intensity strength and conditioning

athletes

Ramsey, Codi The influence of footwear on lower limb kinematics and kinetics during

running: implications for the etiology of iliotibial band syndrome

Sampath, Kesava Thoracic spinal manipulation and short-term changes in the activities of (1)

hypothalamic-pituitary-adrenal (HPA) axis and Hypothalamic-pituitary-gonadal (HPG) axis (i.e. HPA-HPG axis) and (2) the sympathetic nervous system (SNS). Is that a potential viable treatment option for people with

chronic pain?

Sangelaji, Bahram Developing and testing an intervention to promote life-long exercise in

people with MS

Spontelli Gisselman, Angela The role of heart rate variability indices in prevention of

musculoskeletal overuse injuries in collegiate athletes

Taylor, Karen Evaluating the primary care and decision-making process for acute shoulder

injuries in New Zealand

# Secondary Supervisor School of Physiotherapy

Jeremy Goh A combined physical and cognitive intervention in Parkinson's disease

Quick, Andrew The influence of orthognathic therapy on mandibular motion

# **CHARR** research outputs

# 2017 publications

# Research Outputs

Journal

- Ahmed, O. H., Schneiders, A. G., McCrory, P. R., & **Sullivan, S. J.** (2017). Sport concussion management using Facebook: A feasibility study of an innovative adjunct "iCon". Journal of Athletic Training. Advance online publication. doi: 10.4085/1062-6050.52.2.13
- Ahmed, O. H., Weiler, R., Schneiders, A. G., McCrory, P., & **Sullivan, J.** (2017). Top social media tips for sports and exercise medicine practitioners (Infographic). British Journal of Sports Medicine. Advance online publication. doi: 10.1136/bjsports-2017-097513
- Baddock, S., Tipene-Leach, D., Williams, S. M., Tangiora, A., Jones, R., **Macznik, A.,** & Taylor, B. J. (2017). Physiological stability in an indigenous sleep device: A randomised controlled trial. Archives of Disease in Childhood. Advance online publication. doi: 10.1136/archdischild-2017-313512
- Balasundaram, A. P., Athens, J., Schneiders, A. G., McCrory, P., & **Sullivan, S. J.** (2017). Do post concussion-like symptom responses change following exercise or sports participation in a non-concussed cohort? Scandinavian Journal of Medicine & Science in Sports. Advance online publication. doi: 10.1111/sms.12844
- Balasundaram, A. P., Athens, J., Schneiders, A. G., McCrory, P., & **Sullivan, S. J.** (2017). Psychological and lifestyle factors that influence the serial reporting of post concussive-like symptoms in a non-concussed population. PM&R. Advance online publication. doi: 10.1016/j.pmrj.2017.01.004
- **Baxter, G. D., Liu, L.**, Petrich, S., **Gisselman, A. S., Chapple, C.,** Anders, J. J., & **Tumilty, S**. (2017). Low level laser therapy (Photobiomodulation therapy) for breast cancer-related lymphedema: A systematic review. BMC Cancer, 17, 833. doi: 10.1186/s12885-017-3852-x
- **Baxter, G. D.**, **Mabire, L., Liu, L.**, Connolly, M. J., Theodore, R., Brunson, J., & Nicholson, H. (2017). Seven things you need to know about men's health. New Zealand Medical Journal, 130(1463), 7-10. Retrieved from https://www.nzma.org.nz/journal. [Editorial].
- **Bell, R.,** Smith, C., **Hale, L.**, Kira, G., & **Tumilty, S.** (2017). Understanding obesity in the context of an Indigenous population: A qualitative study. Obesity Research & Clinical Practice. Advance online publication. doi: 10.1016/j.orcp.2017.04.006
- Black, N. M., **Sullivan, S. J.**, & **Mani, R**. (2017). A biopsychosocial understanding of lower back pain: Content analysis of online information. European Journal of Pain. Advance online publication. doi: 10.1002/ejp.1158
- Boland, P., Levack, W., **Perry, M**., & Graham, F. (2017). Equipment provision after stroke: A scoping review of the use of personal care and mobility aids in rehabilitation. British Journal of Occupational Therapy, 80(2), 73-88. doi: 10.1177/0308022616664910
- Bussey, M. D., Aldabe, D., **Adhia, D.**, & **Mani, R.** (2017). Reliability of surface electromyography activity of gluteal and hamstring muscles during sub-maximal and maximal voluntary isometric contractions. Musculoskeletal Science & Practice. Advance online publication. doi: 10.1016/j.msksp.2017.09.004



- Calder, A., Nunnerley, J., Mulligan, H., Ahmad Ali, N., Kensington, G., McVicar, T., & van Schaik, O. (2017). Experiences of persons with spinal cord injury undertaking a physical activity programme as part of the SCIPA †Full-On' randomized controlled trial. Disability & Health Journal. Advance online publication. doi: 10.1016/j.dhjo.2017.10.005
- Chow, A. Y. P., Creagh, M. F., Ganley, M. J., Kelly, G. C., Pranjoto, B., Gray, E., & **Skinner, M. A.** (2017). The use of key health questions for patient initial assessment in physiotherapy clinical practice. New Zealand Journal of Physiotherapy, 45(2), 75-89. doi: 10.15619/NZJP/45.2.04
- Clay, L., Milosavljevic, S., Koehncke, N., Dosman, J., Trask, C., for the Saskatchewan Farm Injury Cohort Study Team. (2017). Trends of ATV use and associated injury on Saskatchewan farms. Journal of Occupational & Environmental Hygiene. Advance online publication. doi: 10.1080/15459624.2017.1339049
- Darlow, B., McKinlay, E., Gallagher, P., Beckingsale, L., Coleman, K., **Perry, M.,** & Pullon, S. (2017). Building and expanding interprofessional teaching teams. Journal of Primary Health Care, 9(1), 29-33. doi: 10.1071/HC16053
- de Araujo, F. X., Scholl Schell, M., & **Ribeiro, D. C**. (2017). Effectiveness of physiotherapy intervention plus extrinsic feedback for neck disorders: A systematic review with meta-analysis. Musculoskeletal Science & Practice, 29, 132-143. doi: 10.1016/j.msksp.2017.04.005
- de Castro, M. P., Fonseca, P., Morais, S. T., Borgonovo-Santos, M., Coelho, E. F. C., **Ribeiro, D. C.,** & Vilas-Boas, J. P. (2017). Functional shoulder ratios with high velocities of shoulder internal rotation are most sensitive to determine shoulder rotation torque imbalance: A cross-sectional study with elite handball players and controls. Sports Biomechanics. Advance online publication. doi: 10.1080/14763141.2017.1380222
- **Devan, H.**, Dillon, M. P., Carman, A. B., Hendrick, P., **Hale, L.,** Boocock, M., & **Ribeiro, D. C**. (2017). Spinal and pelvic kinematics during gait in people with lower-limb amputation, with and without low back pain: An exploratory study. Journal of Prosthetics and Orthotics. Advance online publication. doi: 10.1097/JPO.0000000000000137
- **Devan, H.,** Hendrick, P., **Hale, L.,** Carman, A., & Dillon, M. P. (2017). Exploring factors influencing low back pain in people with non-dysvascular lower limb amputation: a national survey. PM&R. Advance online publication. doi: 10.1016/j.pmrj.2017.02.004
- Dwyer, K., & **Mulligan**, **H.** (2017). The experiences of individuals with a spinal cord injury following discharge from inpatient rehabilitation. International Journal of Therapy & Rehabilitation, 24(8), 353-359. doi: 10.12968/ijtr.2017.24.8.353
- Ecemendia, R. J., Meeuwisse, W., McCrory, P., Davis, G. A., Putukian, M., Leddy, J., **Sullivan, S. J.**, and Herring, S. (2017). The Sport Concussion Assessment Tool 5th Edition (SCAT5). British Journal of Sports Medicine, 51(11), 848-850. doi: 10.1136/bjsports-2017-097506
- Echemendia, R. J., Broglio, S. P., Davis, G. A., Guskiewicz, K. M., Hayden, K. A., Leddy, J. J., **Sullivan, S. J.,** McCrory, P. (2017). What tests and measures should be added to the SCAT3 and related tests to improve their reliability, sensitivity and/or specificity in sideline concussion diagnosis? A systematic review. British Journal of Sports Medicine, 51(11), 895-901. doi: 10.1136/bjsports-2016-097466
- Echemendia, R. J., Meeuwisse, W., McCrory, P., Davis, G. A., Putukian, M., Leddy, J., **Sullivan, S. J.,** and Herring, S. (2017). The Concussion Recognition Tool 5th Edition (CRT5). British Journal of Sports Medicine, 51(11), 870-871. doi: 10.1136/bjsports-2017-097508

- **Falling, C.**, & **Mani, R**. (2017). Influence of demographic and anthropometric factors on tactile acuity of various body regions: A systematic narrative review. Journal of Pain, 18(Suppl. 4), (pp. S83). doi: 10.1016/j.jpain.2017.02.286
- Fernandopulle, S., **Perry, M.,** Manlapaz, D., & **Jayakaran, P.** (2017). Effect of land-based generic physical activity interventions on pain, physical function, and physical performance in hip and knee osteoarthritis: A systematic review and meta-analysis. American Journal of Physical Medicine & Rehabilitation, 96(11), 773-792. doi: 10.1097/phm.0000000000000736
- George, E., **Hale, L.,** & Angelo, J. (2017). Valuing the health of the support worker in the aged care sector. Ageing & Society, 37(5), 1006-1024. doi: 10.1017/S0144686X16000131
- Gillespie, M. A., Macznik, A., Wassinger, C. A., & **Sole, G.** (2017). Rotator cuff-related pain: Patients' understanding and experiences. Musculoskeletal Science & Practice. Advance online publication. doi: 10.1016/j.msksp.2017.05.009
- **Gisselman, A. S.**, D'Amico, M., & Smoliga, J. M. (2017). Optimizing inter-session reliability of heart rate variability: The effects of artefact correction and breathing type. Journal of Strength & Conditioning Research. Advance online publication. doi: 10.1519/jsc.0000000000002258
- Hajizadeh, M., Hashemi Oskouei, A., Ghalichi, F., & **Sole, G.** (2017). Intra-session reliability and repeatability of knee kinematics in subjects with ACL deficiency during stair ascent. Journal of Mechanics in Medicine and Biology, 17(6), 1750092. doi: 10.1142/s0219519417500920
- Hall, M. L., Mackie, A. C., & **Ribeiro, D. C.** (2017). Effects of dry needling trigger point therapy in the shoulder region on patients with upper extremity pain and dysfunction: A systematic review and meta-analysis. Physiotherapy. Advance online publication. doi: 10.1016/j.physio.2017.08.001
- Higgs, C., Gisselman, A. S., Hale, L., & Mani, R. (2017). Health outcomes of the Dunedin Community Exercise Programme for people with type 2 diabetes and prediabetes: A single-group study. European Journal of Physiotherapy, 19(Suppl. I), (pp. 64-65). doi: 10.1080/21679169.2017.1381316
- Hoermann, S., Ferreira dos Santos, L., Morkisch, N., Jettkowski, K., Sillis, M., **Devan, H.**, Kanagasabai, P. S., Regenbrecht, H., **Hale, L.,** & Cutfield, N. J. (2017). Computerised mirror therapy with Augmented Reflection Technology for early stroke rehabilitation: Clinical feasibility and integration as an adjunct therapy. Disability & Rehabilitation. Advance online publication. doi: 10.1080/09638288.2017.1291765
- **Kanagasabai, P. S.**, Mirfin-Veitch, B., **Hale, L. A., & Mulligan, H.** (2017). A child-centered method of interviewing children with movement impairments. Physical & Occupational Therapy in Pediatrics. Advance online publication. doi: 10.1080/01942638.2017.1365322
- **Kanagasabai, P. S., Mulligan, H., Hale, L. A.,** & Mirfin-Veitch, B. (2017). "I do like the activities which I can do..." Leisure participation experiences of children with movement impairments. Disability & Rehabilitation. Advance online publication. doi: 10.1080/09638288.2017.1303093
- **Kanagasabai, P. S.**, **Mulligan, H.**, Mirfin-Veitch, B., & **Hale, L.** (2017). Leisure participation patterns of children with movement impairments in New Zealand. Pediatric Physical Therapy, 29(1), 16-22. doi: 10.1097/pep.0000000000000334
- **Kaur, M.** (2017). [Review of the book Management of chronic conditions in the foot and lower leg]. New Zealand Journal of Physiotherapy, 45(2), 96. [Book Review].



- Kearney, R., **Gisselman, A.**, Cunniffe, E., & Heerey, J. (2017). Sports medicine highlights from other journals. British Journal of Sports Medicine. Advance online publication. doi: 10.1136/bjsports-2017-098117
- **Kennedy, E.,** Albert, M., & Nicholson, H. (2017). Do longus capitis and colli really stabilise the cervical spine? A study of their fascicular anatomy and peak force capabilities. Musculoskeletal Science & Practice, 32, 104-133. doi: 10.1016/j.msksp.2017.10.005
- **Kennedy, E.**, Albert, M., & Nicholson, H. (2017). The fascicular anatomy and peak force capabilities of the sternocleidomastoid muscle. Surgical & Radiologic Anatomy, 39(6), 629-645. doi: 10.1007/s00276-016-1768-9
- **Kennedy, E.**, Quinn, D., **Tumilty, S.**, & **Chapple, C**. (2017). Clinical characteristics and outcomes of treatment of the cervical spine in patients with persistent post-concussion symptoms: A retrospective analysis. Musculoskeletal Science & Practice. Advance online publication. doi: 10.1016/j.msksp.2017.03.002
- Keramat Kar, M., Whitehead, L., & **Smith, C. M.** (2017). Characteristics and correlates of coping with multiple sclerosis: A systematic review. Disability & Rehabilitation. Advance online publication. doi: 10.1080/09638288.2017.1387295
- **Kovanur Sampath, K.,** & Roy, D. E. (2017). Barriers to identifying mood disorders in clients by New Zealand osteopaths: Findings of a thematic analysis. <em>International Journal of Osteopathic Medicine</em>. Advance online publication. doi: 10.1016/j.ijosm.2017.11.005
- **Kovanur Sampath, K.**, **Mani, R.**, Cotter, J., & **Gisselman, A. S**. (2017). Reply to letter to the Editor 'Changes in biochemical markers following spinal manipulation: A systematic review and meta-analysis. Musculoskeletal Science & Practice. Advance online publication. doi: 10.1016/j.msksp.2017.05.004 [Letter].
- Kovanur-Sampath, K., Mani, R., Cotter, J., Gisselman, A. S., & Tumilty, S. (2017). Changes in biochemical markers following spinal manipulation: A systematic review and meta-analysis. Musculoskeletal Science & Practice, 29, 120-131. doi: 10.1016/j.msksp.2017.04.004
- Lilley, R., Jaye, C., Davie, G., Keeling, S., **Waters, D.**, & Egan, R. (2017). Age-related patterns in work-related injury claims from older New Zealanders, 2009–2013: Implications of injury for an aging workforce. Accident Analysis & Prevention. Advance online publication. doi: 10.1016/j.aap.2017.10.022
- **Liu, L., Skinner, M. A.,** McDonough, S. M., & **Baxter, G. D.** (2017). Acupuncture for chronic low back pain: A randomized controlled feasibility trial comparing treatment session numbers. Clinical Rehabilitation. Advance online publication. doi: 10.1177/0269215517705690
- Mabire, L., Mani, R., Liu, L., Mulligan, H., & Baxter, D. (2017). The Influence of age, sex and body mass index on the effectiveness of brisk walking for obesity management in adults. A systematic review and meta-analysis. Journal of Physical Activity & Health, 14(5), 389-407. doi: 10.1123/jpah.2016-0064
- Macznik, A. K., Schneiders, A. G., Athens, J., & Sullivan, S. J. (2017). Does acupressure hit the mark? A three-arm randomized placebo-controlled trial of acupressure for pain and anxiety relief in athletes with acute musculoskeletal sports injuries. Clinical Journal of Sport Medicine, 27(4), 338-343. doi: 10.1097/jsm.00000000000000378
- **Macznik, A. K.**, Schneiders, A. G., Athens, J., & **Sullivan, S. J.** (2017). The development of an instructional video for the teaching of acupressure for pain management in acute musculoskeletal



- injuries: A knowledge translation study. Physical Therapy in Sport. Advance online publication. doi: 10.1016/j.ptsp.2017.10.005
- Manlapaz, D. G., Sole, G., Jayakaran, P., & Chapple, C. M. (2017). A narrative synthesis of Nintendo Wii Fit gaming protocol in addressing balance among healthy older adults: What system works? Games for Health Journal. Advance online publication. doi: 10.1089/g4h.2016.0082
- McKinlay, E., McDonald, J., Darlow, B., & **Perry, M.** (2017). Social networks of patients with multimorbidity: A qualitative study of patients' and supporters' views. Journal of Primary Health Care, 9(2), 153-161. doi: 10.1071/HC16062
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## Other

Balasundaram, A., Schneiders, A., Athens, J., & **Sullivan, S**. (2017). Psychological, situational and lifestyle factors that influence the reporting of postconcussion-like symptoms. <em> Journal of Science & Medicine in Sport</em>, <em>20</em>(Suppl. 3), (pp. 14-15). doi: 10.1016/j.jsams.2017.09.218[Abstract]

## **Presentations**

**Baxter, D.** (2017, June). Research development in physiotherapy: The role of graduate research [Chaffer Medal] Plenary presentation at the Southern Health Symposium, Dunedin, New Zealand.

**Baxter, D.** (2017, November). Men's health in New Zealand. Verbal presentation at the Men's Health Conference: Meeting the Challenges, Dunedin, New Zealand.

**Bell, R.,** Oosman, S. and Steffensen, M. (2017) Toward cultural safety: Physical therapists meeting the needs of the world's Indigenous populations. Discussion Session, Indigenous Issues. World Confederation of Physical Therapy, Cape Town

Black, N., **Mani, R., & Sullivan, J.** (2017, March). A biopsychosocial understanding of lower back pain: Content analysis of online information. Verbal presentation at the New Zealand Pain Society Annual Scientific Meeting, Nelson, New Zealand.

Bone, S., Lee, M., Max, C., Mischewski, N., Pearse-Smith, N., **Mulligan, H., & Wilkinson, M**. (2017, November). The power of dance. Keynote presentation at the Disability Matters Conference, Dunedin, New Zealand.

Calder, A., Sole, G., Thomas, D., & Mulligan, H. (2017). Blokes with stroke explore the user-friendliness of fitness facility environments for engaging in physical activity. In S. Mandic, C. Ergler & A. Moore (Eds.), Proceedings of the International Symposium Active Living and Environment: Towards a Healthier and More Sustainable Future. (pp. 42). Dunedin, New Zealand: University of Otago. [Abstract]

**Chapple, C.** (2017, August). Same time next week? What is the optimal frequency of manual therapy for people with knee osteoarthritis? Verbal presentation at the New Zealand Manipulative Physiotherapists Association (NZMPA) Biennial Scientific Conference, Rotorua, New Zealand.

**Chapple, C**. (2017, November). The frequency of manual therapy for patients with knee osteoarthritis. Invited presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.

Coleman, K., Darlow, B., McKinlay, E., Beckingsale, L., Donovan, S., Gallagher, P., Gray, B., Neser, H., **Perry, M.**, & Pullon, S. (2017). Facilitating interprofessional education. Journal of Medical Radiation Sciences, 64(Suppl. 1), (pp. 39). [Abstract]

Coleman, K., Darlow, B., McKinlay, E., Beckingsale, L., Donovan, S., Gallagher, P., Gray, B., Neser, H., **Perry, M**., & Pullon, S. (2017). Learn with, from and about each other: Developing an interprofessional programme. Journal of Medical Radiation Sciences, 64(Suppl. 1), (pp. 81). [Abstract]

- Coleman, K., McKinlay, E., Darlow, B., Beckingsale, L., Donovan, S., Gallagher, P., Gray, B., Neser, H., **Perry, M.**, & Pullon, S. (2017). Guidelines for educators in establishing and sustaining dynamic IPE programmes. <em>Proceedings of the Interprofessional Education Showcase: Incorporating Interprofessional and Collaborative Practice into the Curriculum.Retrieved from <a href="https://www.fmhs.auckland.ac.nz/en/faculty/about/news-and-events/2017/nov0/21/interprofessional-education-showcase---cmhse.html">https://www.fmhs.auckland.ac.nz/en/faculty/about/news-and-events/2017/nov0/21/interprofessional-education-showcase---cmhse.html</a> .[Abstract]
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- **Devan, H.**, **Perry, M.**, Shipton, E., Dowell, T., Jones, B., Ingham, T., Gray, A., Leung, W., Hoermann, S., and **Hale, L.**, & Grainger, R. (2017). Co-creating a self-management eHealth resource by the people and for the people with persistent pain: iSelf-help. Proceedings of the Health Informatics New Zealand (HiNZ) Conference.(pp. 24). Retrieved from http://www.hinz.org.nz/.[Abstract]
- **Devan, H.**, **Hale, L.**, Hempel, D., Saipe, B., & **Perry, M.** (2017, March). What works and what doesn't in a self-management support intervention for individuals with persistent pain? A systematic review and meta-synthesis of qualitative studies. Verbal presentation at the New Zealand Pain Society Annual Scientific Meeting, Nelson, New Zealand.
- **Devan, H.**, **Perry, M.**, Shipton, E., Dowell, T., Jones, B., Ingham, T., Gray, A., Leung, W., Hoermann, S., and Hale, L., & Grainger, R. (2017). Co-creating a self-management eHealth resource by the people and for the people with persistent pain: iSelf-help. Proceedings of the Health Informatics New Zealand (HiNZ) Conference.(pp. 24). Retrieved from http://www.hinz.org.nz/.[Abstract]
- Elias, B., Goh, J., Peterson, E., Livingstone, M., Goulden, M., Myall, D., Melzer, T., Pitcher, T., Livingston, L., Horne, K., Grenfell, S., **Wilkinson, M.**, MacAskill, M., **Mulligan, H.**, Cutfield, N., Anderson, T., **Hale, L.**, & Dalrymple-Alford, J. (2017). Theory of mind in Parkinson's disease: Improvement after physical and cognitive exercise. In B. Leitch (Ed.), Proceedings of the 35th International Australasian Winter Conference on Brain Research. (pp. 61). AWCBR. Retrieved from <a href="http://www.otago.ac.nz/awcbr/index.html">http://www.otago.ac.nz/awcbr/index.html</a> .[Abstract]
- **Falling, C.**, & **Mani, R.** (2017). Influence of demographic and anthropometric factors on tactile acuity of various body regions: A systematic narrative review. Journal of Pain, 18(Suppl. 4), (pp. S83). doi: 10.1016/j.jpain.2017.02.286[Abstract]
- Freeman, C., van Heezik, Y., & Waters, D. (2017). Creating biodiverse cities for active lives from childhood to old age [Invited]. In S. Mandic, C. Ergler & A. Moore (Eds.), Proceedings of the International Symposium Active Living and Environment: Towards a Healthier and More Sustainable Future.(pp. 35). Dunedin, New Zealand: University of Otago. [Abstract]
- Gillespie, M. A., Macznik, A. K., & **Sole, G**. (2017). Rotator cuff-related pain: Participants understanding and experiences. New Zealand Medical Journal, 130(1452), (pp. 80). Retrieved from <a href="https://www.nzma.org.nz/journal.[Abstract]">https://www.nzma.org.nz/journal.[Abstract]</a>



- **Gosselin D** and Girolami G.(2017) Blending the ICF and Gentile's Taxonomy of Motor Skills to Analyze the Requirements of Natural-Walking in Children. Southern Physiotherapy Symposium. Queenstown, NZ. November 2017.
- Hale L., Smith C., Adhia D., Mulligan H., Siew B.I, Treharne G. (2017) Promoting physical activity for people living with diverse long-term conditions and disabilities: is blue prescription an acceptable approach? Platform presentation. World Confederation of Physical Therapy Congress, Cape Town
- Hale, L., Potiki Bryant, K., Ward, A. L., Russell, A., Montgomery, A., Tikao, K., Mirfin-Veitch, B.,& Milosavljevic, S. (2017, November). Health care accessibility among hauā Māori in Murihiku/Southland, Aotearoa/New Zealand. Verbal presentation at the Disability Matters Conference, Dunedin, New Zealand.
- **Higgs, C.** (2017, November). An introduction to motivational interviewing for physiotherapists. Verbal presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.
- **Higgs C.**, **Gisselman A.**, **Hale L.**, and **Mani R.** (2017) Health outcomes of the Dunedin Community Exercise Programe: a single-group study. Platform presentation. World Confederation of Physical Therapy Congress, Cape Town
- Higgs, C., Gisselman, A. S., Hale, L., & Mani, R. (2017). Health outcomes of the Dunedin Community Exercise Programme for people with type 2 diabetes and prediabetes: A single-group study. European Journal of Physiotherapy, 19(Suppl. I), (pp. 64-65). doi: 10.1080/21679169.2017.1381316[Abstract]
- Ingham, T., Neill, A., **Perry, M.,** Jones, B., Sim, D., Aldridge, D., **Devan, H.**, Miller, J., & Theadom, A. (2017). Regional variation in provision of ventilatory support for genetic neuromuscular disorders across New Zealand. Journal of Sleep Research, 26(Suppl. I), (pp. 60-61). doi: 10.1111/jsr.12617[Abstract]
- **Jayakaran, P.** (2017, November). Physical activity participation in individuals with joint pain. Invited presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.
- **Jayakaran, P.**, Shemmell, J., Hendri, E., Nowicky, A., & **Hale, L.** (2017). Test and retest reliability of corticospinal excitability of rectus femoris with TMS in able-bodied adults. Archives of Physical Medicine & Rehabilitation, 98(10), (pp. e115). doi: 10.1016/j.apmr.2017.08.369[Abstract]
- **Kaur, M., Ribeiro, D. C.**, Theis, J.-C., Webster, K., & **Sole, G**. (2017). Differences in kinematics and kinetics during stair negotiation in participants with anterior cruciate ligament reconstruction compared to control group. Proceedings of the XXVI Congress of the International Society of Biomechanics and the 9th Asian-Pacific Conference on Biomechanics. Retrieved from <a href="http://www.biomech2017.com">http://www.biomech2017.com</a> .[Abstract]
- **Kaur, M.**, **Ribeiro, D. C.**, Reis, J.-C., Webster, K., & **Sole, G.** (2017). Patients' perspectives of the outcomes of anterior cruciate ligament (ACL) reconstruction surgery. Proceedings of the University of Otago Student Research Symposium: Te Wānaka Rakahau: Ākoka. (pp. 42-43). Retrieved fromhttp://www.otago.ac.nz/graduate-research/scholarships/otago643219.html.[Abstract]
- **Kennedy, E.** (2017, August). How does the neck contribute to persistent post-concussion symptoms? A prospective case series. Verbal presentation at the New Zealand Manipulative Physiotherapists Association (NZMPA) Biennial Scientific Conference, Rotorua, New Zealand.

- **Kennedy, E.** (2017, November). It's not all in your head: Persistent post-concussion symptoms can be neck-related. Invited presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.
- Kovanur-Sampath, K., Mani, R., Gisselman, A., Cotter, J., & Tumilty, S. (2017). Effectiveness of spinal manipulation in eliciting changes in biochemical markers: A systematic review and metaanalysis. Proceedings of the University of Otago Student Research Symposium: Te Wānaka Rakahau: Ākoka. (pp. 46-47). Retrieved from http://www.otago.ac.nz/graduate-research/scholarships/otago643219.html.[Abstract]
- **Lin H, Chapple CM**. Frequency of manual therapy for patients with knee osteoarthritis: What do physiotherapists think? Podium presentation at the NZ Manipulative Physiotherapists Association, Rotorua, 19/20 August 2017
- Livingstone, M., Elias, B., Goh, J., Peterson, E., **Wilkinson, M.**, Goulden, M., Melzer, T., Pitcher, T., Livingston, L., Horne, K., … MacAskill, M., **Mulligan, H.**, Cutfield, N., Anderson, T., **Hale, L.**, & Dalrymple-Alford, J. (2017). Maintaining independence in Parkinson's disease: Cognitive effects of a combined cognitive and physical exercise intervention. In B. Leitch (Ed.), Proceedings of the 35th International Australasian Winter Conference on Brain Research.(pp. 62). AWCBR. Retrieved from http://www.otago.ac.nz/awcbr/index.html.[Abstract]
- Longnecker, N., Scott, C., **Waters, D.,** Liberatore, A., & SolÃ-s, D. (2017). Well balanced: Reaching out with engaged research. In S. Mandic, C. Ergler & A. Moore (Eds.), Proceedings of the International Symposium Active Living and Environment: Towards a Healthier and More Sustainable Future.(pp. 45). Dunedin, New Zealand: University of Otago. [Abstract]
- Maleka, D., Blanton, S., **Mulligan, H.**, Winberg, C. and Camargo, D. (2017) Self-management as an effective public health strategy: the role of physical therapy. Physical Therapy and Public Health, Discussion Session. World Confederation of Physical Therapy Congress, Cape Town
- Mate, K., Mayo, N., **Sangelaji, B**., Coe, S. **Hale, L.** (2017) Expanding the impact of physical therapy: examples from multiple sclerosis. Discussion Session. Portraits in Multiple Sclerosis. World Confederation of Physical Therapy Congress, Cape Town
- **Mani, R.** (2017, November). Assessing tactile acuity and personal pain modulation profile in clinical practice. Invited presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.
- Mani, R., Adhia, D., Leong, S., & De Ridder, D. (2017, March). Conditional pain modulation, central sensitivity syndromes and psychological characteristics in individuals with chronic multi-site musculoskeletal pain: A pilot investigation. Poster session presented at the New Zealand Pain Society Annual Scientific Meeting, Nelson, New Zealand.
- Mani, R. (2017, December). Central pain mechanisms in individuals with musculoskeletal pain: Implications for clinical practice [MU alumni Lecture]. Verbal presentation at the 1st Manipal International Physiotherapy Conference (MIPCON), Manipal, India.
- **Mani, R**. (2017, December). Integrating research on central pain mechanisms into clinical practice. Workshop presentation at the 1st Manipal International Physiotherapy Conference (MIPCON), Manipal, India.
- Mani, R. (2017, December). Tactile acuity, implicit motor imagery and motor control/performance in musculoskeletal pain: Are they related? Verbal presentation at the 1st Manipal International Physiotherapy Conference (MIPCON), Manipal, India.



- Mani, R. (2017, July). Impaired descending pain modulation, central sensitisation, and neuropathic pain in adults with chronic musculoskeletal pain. Dunedin School of Medicine Medical Forum, Dunedin, New Zealand. [Research Seminar].
- Manlapaz, D., Sole, G., Jayakaran, P., & Chapple, C. (2017). Risk factors for falls in older adult with knee osteoarthritis: A systematic review. Proceedings of the University of Otago Student Research Symposium: Te Wānaka Rakahau: Ākoka. (pp. 53-54). Retrieved from <a href="http://www.otago.ac.nz/">http://www.otago.ac.nz/</a> graduate-research/scholarships/otago643219.html.[Abstract]
- Michener, L., Cools, A., **Sole, G**. and Struyf, F. (2017) Why rotator cuff tendinopathies become chronic? Focussed Symposia. World Confederation of Physical Therapy, Cape Town.
- Mulligan, H., & Wilkinson, A. (2017). Triangulating end-users, stakeholders and the evidence: Meaningful rehabilitation through dance! Proceedings of the New Zealand Rehabilitation Conference: Making an Impact: Putting Knowledge to Work in Rehabilitation. Retrieved from <a href="http://www.nzrehabconference2017.co.nz/.[Abstract]">http://www.nzrehabconference2017.co.nz/.[Abstract]</a>
- **Mulligan H**, Briggs H & Miyahara M (2017). Towards accessible public space. Disability Matters conference: Making the Convention real. 27-29 November, Otago University.
- Mulligan, K., Calder, A., & Mulligan, H. (2017). Incorporating inclusive design in architectural practice: A qualitative study exploring architectural design student's experiential learning. In S. Mandic, C. Ergler & A. Moore (Eds.), Proceedings of the International Symposium Active Living and Environment: Towards a Healthier and More Sustainable Future.(pp. 76). Dunedin, New Zealand: University of Otago. [Abstract]
- **Mulligan H.**, Graham H.I, Mccormick M.I, Bond A.I, Hobbs O.I, Yoo C.I, Gupta S.2, King M (2017) Collaborative computer gaming to encourage social interactions between adolescents with autism spectrum disorder: a feasibility study. World Confederation of Physical Therapy, Cape Town
- **Mulligan, H.** (2017) Development and delivery of a self-management fatigue programme for people with multiple sclerosis, Research Impact: Realising our potential Conference. November 21-22
- Neill, A., Ingham, T., Jones, B., **Perry, M.**, Sim, D., Aldridge, D., **Devan, H.**, Miller, J., & Theadom, A. (2017). Prevalence of ventilatory support in genetic neuromuscular disorders in New Zealand. [ournal of Sleep Research, 26(Suppl. 1), (pp. 61). doi: 10.1111/jsr.12617[Abstract]
- **Perry, M**. (2017, November). Older Adults in Parks Study. Verbal presentation at the New Zealand Recreation Association (NZRA) Recreation Conference, New Plymouth, New Zealand.
- **Perry, M.** (2017, November). The role of physiotherapists in minimising risk of anterior cruciate ligament injuries in the non-elite female netball player. Invited presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.
- **Perry, M** (2017) Parks for all: co-creating inclusive parks and play areas in Porirua, New Zealand, Research Impact: Realising our potential Conference. November 21-22
- **Perry, M. A., Devan, H.**, Fitzgerald, H., Han, K., **Liu, L.,** & Rouse, J. (2017). Accessibility and usability of community parks and playground in the greater Wellington region. In S. Mandic, C. Ergler & A. Moore (Eds.), Proceedings of the International Symposium Active Living and Environment: Towards a Healthier and More Sustainable Future.(pp. 75). Dunedin, New Zealand: University of Otago. [Abstract]

- **Perry, M.**, **Devan, H.**, Ergler, C., & Boland, P. (2017, November). Round peg in a square hole: Park experiences of children with disability and their caregivers. Verbal presentation at the 8th New Zealand/Aotearoa Mobilities Symposium, Dunedin, New Zealand.
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- **Smith, C. M., Turnilty, E.,** Walker, P., & Treharne, G. J. (2017, November). Urban spaces and 'Umwelt': How can we know that dog-walking spaces are therapeutic for the dog? Verbal presentation at the 8th New Zealand/Aotearoa Mobilities Symposium, Dunedin, New Zealand.
- **Sole, G.** (2017, August). "It's about your whole": Responses of participants with rotator cuff-related pain to a neuroscience pain education session. Verbal presentation at the New Zealand Manipulative Physiotherapists Association (NZMPA) Biennial Scientific Conference, Rotorua, New Zealand.
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- **Taylor K.G.,** Johnson G.M., Little R., Staufenburg A., and McDonald A. (2017) Patients' opinions on draping in a physiotherapy outpatient clinic. Poster presentation. World Confederation of Physical Therapy Congress, South Africa
- **Tumilty, S.** (2017, November). Kites rise highest against the wind. Invited presentation at the Southern Physiotherapy Symposium 8, Queenstown, New Zealand.



**Tumilty, S.** (2017, September). What has osteopathy ever done for us? Treatment of Achilles tendinopathy. Verbal presentation at the Osteopathy New Zealand Conference, Auckland, New Zealand.

**Vlietstra, L.**, Meredith-Jones, K., Stebbings, S., Abbott, J., Treharne, G., & **Waters, D**. (2017). Sarco-osteopenia in osteoarthritis and rheumatoid arthritis: Implications for clinical practice. Internal Medicine Journal, 47(Suppl. 2), (pp. 5). doi: 10.1111/imj.13426[Abstract]

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**Wilkinson, M.**, Foster, S.\*, Hayes-Woods, E.\*, Sakthivel, P.\*, van den Beuken, N.\*, & **Mulligan H.** (2017). Supporting social connectivity and participation for people with disabilities: Innovative service delivery. Presentation, Disability Matters Conference Dunedin 27-29 November. http://www.otago.ac.nz/disability-matters/programme/otago668763.pdf \*4th year undergraduate student presenters

Wilson, C., Gallagher, P., Pullon, S., **Skinner, M.,** McHugh, P., McKinlay, E., & Gray, L. (2017). The Community Education Project: A socially accountable assessment component within an interprofessional curriculum. Proceedings of the Interprofessional Education Showcase: Incorporating Interprofessional and Collaborative Practice into the Curriculum.Retrieved from <a href="https://www.fmhs.auckland.ac.nz/en/faculty/about/news-and-events/events/2017/nov0/21/interprofessional-education-showcase---cmhse.html.[Abstract]</a>

Winser S Smith C, Hale L, Claydon L, Whitney S. BBS and SARA-Bal for the assessment of balance in cerebellar ataxia. What is thought about their suitability? WCPT-AWP & PTAT Congress 2017, Bangkok, Thailand (28-30 June)

Winser, S, Smith, C, Hale, L, Claydon, L, Whitney, S. Mottershead, J, Zaydan, I and & Heyman, R. (2016). Core set of measures of balance for people with multiple sclerosis and cerebellar ataxia. Conference: Parkinson and Movement Disorder Society's 20th International Congress of Parkinson's Disease and Movement Disorders. Berlin, Germany 19-23 June 2016.

## **Department seminars**

**Chapple, CM** (2017, 12 September) Same time next week? What is the optimal frequency of manual therapy for people with knee osteoarthritis? Centre for Health, Activity, and Rehabilitation



Research, School of Physiotherapy, University of Otago, Dunedin, New Zealand. [Department Seminar]

**Kennedy, E.** (2017, February). How does the neck contribute to persistent post-concussion symptoms?. School of Physiotherapy, University of Otago, Dunedin, New Zealand. [Department Seminar].

**Mani, R.** (2017, May) Pro-nociceptive and anti-nociceptive pain mechanisms in middle-aged and older adults with chronic musculoskeletal pain. Centre for Health, Activity, and Rehabilitation Research, School of Physiotherapy, University of Otago, Dunedin, New Zealand. [Department Seminar]