



## Appendix 4

**This appendix was part of the submitted manuscript and has been peer reviewed.  
It is posted as supplied by the authors.**

Appendix 1 to: Bourne AM, Whittle SL, Richards BL, et al. The scope, funding and publication of musculoskeletal clinical trials performed in Australia. *Med J Aust* 2014; 200: xxx-xxx. doi: 10.5694/mja13.10907.

**Appendix 4. Musculoskeletal-specific randomised controlled trials with Australian recruitment published in the 37 highest general medical and musculoskeletal-related journals by 2011 Impact Factor\* between 01 January 2011 and 31 December 2012: Condition, intervention category, trial design, intervention(s), comparator/s, trial size and funding source**

Condition	Intervention Category	Trial Design	Intervention(s)	Comparator(s)	Trial Size	Funding Source
Rheumatoid arthritis	Drugs	RCT-PB	Ofatumumab + Methotrexate	Placebo + Methotrexate	260	Industry
		RCT-PB	Golimumab (two different dosages) + Methotrexate	Placebo + Methotrexate; Placebo + Golimumab	444	Industry
		RCT-PB	Rituximab (two different dosages) + Methotrexate	Methotrexate	748	Industry; National Institutes of Health (NIH)
		RCT-PB	Golimumab (two different dosages) + Methotrexate	Placebo + Methotrexate; Placebo + Golimumab	318	Industry
		RCT-PB	Abatacept subcutaneously	Abatacept intravenously	1457	Industry
		RCT-PB	Tocilizumab (two different dosages)	Placebo	1196	Industry
		RCT-PB	Adalimumab + Methotrexate; Adalimumab	Methotrexate	799	Industry
		RCT-PB	Certolizumab (two different dosages) + Methotrexate	Placebo + Methotrexate	784	Industry

		RCT-PB	Golimumab + Methotrexate	Placebo + Methotrexate	592	Industry
		RCT-PB	Tofacitinib (two different dosages); Adalimumab	Placebo	717	Industry
		RCT-PB	Tocilizumab	Placebo	489	Industry
Osteoarthritis	Drugs	RCT-PB (A)	Hylan G-F 20 for knee osteoarthritis	Placebo	151	Australian Podiatry Education and Research Foundation, La Trobe University; Industry
		RCT-PB	Strontium ranelate (two different dosages) for knee osteoarthritis	Placebo	1683	Industry
		RCT-PB (A)	Zoledronic acid for knee osteoarthritis	Placebo	59	Industry; Australian Government; NHMRC; Osteoporosis Australia
		RCT-PB	Cindunistat (2 different doses) knee osteoarthritis	Placebo	1457	Industry
		RCT-PB (A)	4Jointz cream for knee osteoarthritis	Placebo cream	133	Industry
	Surgery	RCT-BP (A)	Computer-assisted total knee replacement	Conventional total knee replacement	115	Industry
		RCT-PB (A)	Bicruciate stabilised design for total knee replacement	Traditional posterior-stabilised design	28	Industry

	RCT-PB (A)	Stryker Full Navigation for total knee replacement	Total knee replacement with Stryker Articular Surface Mounted system	40	Industry
	RCT-PB (A)	36 mm metal femoral head on highly cross-linked polyethylene for hip arthroscopy	28-mm metal femoral head on highly cross-linked polyethylene	644	NHMRC; Industry
	RCT-PB (A)	Subvastus approach for knee arthroplasty	Medial parapatellar approach	90	No external funding
	RCT-PB (A)	Single-incision mini-posterior approach for total hip arthroplasty	Standard posterior approach	22	Industry
Physical therapy	RCT-O (A)	Wedge insoles	Flat insoles	200	NHMRC project grant
	RCT-PB (A)	Pulsed electrical stimulation for knee osteoarthritis	Sham electrostimulation	70	Arthritis Australia; Physiotherapy Research Foundation
	RCT-O (A)	Internet-based tele-rehabilitation physical therapy program following total knee arthroplasty	Standard physical therapy	65	No external funding
	RCT-O (A)	Standardised athletic shoes + prefabricated medial arch supports knee osteoarthritis	Standardised athletic shoes wearing no medial arch supports	21	Australian Research Council

	Education/ self- management	RCT-O (A)	Stanford arthritis self- management program + self-help book for knee osteoarthritis	Self-help book	120	NHMRC project grant
SLE	Drugs	RCT-PB	Belimumab	Placebo	867	Industry
Psoriatic arthritis	Drugs	RCT-PB	Abatacept (three different dosages)	Placebo	170	Industry
Spondylo- arthritis	Drugs	RCT-PB	Etanercept	Sulfasalazine	566	Industry
		RCT-PB	Adalimumab for axial spondyloarthritis	Placebo	185	Industry
Osteoporosis and related conditions	Drugs	RCT-PB	Alendronate	Placebo	56	Industry
		RCT-O	Alendronate + Vitamin D	Usual care	515	Industry
		RCT-PB	Zoledronic acid	Placebo	1199	Industry
		RCT-PB	Arzoxifene	Raloxifene	320	Industry
		RCT-PB	Strontium ranelate for bone microstructure in women with osteoporosis	Alendronate	83	Industry
		RCT-PB	Intravenous (IV) zoledronic acid + oral acetaminophen/ paracetamol; Zoledronic acid + ibuprofen	Zoledronic acid + oral placebo; IV Placebo + oral placebo	481	Industry

		RCT-PB	Zoledronic acid + Calcium + Vitamin D for osteoporosis in men	Risedronate + Calcium + Vitamin D	265	Industry
		RCT-PB	Ronacaleret (three different dosages) for postmenopausal osteoporosis	Alendronate; Placebo	569	Industry
		RCT-PB	Teriparatide for back pain in postmenopausal women with osteoporotic vertebral fractures	Risedronate	712	Industry
	Physical therapy	RCT-O (A)	Exercise	Usual Care	39	Industry
Fibromyalgia	Drugs	RCT-PB	Pregabalin (three different dosages)	Placebo	747	Industry
	Physical therapy	RCT-O (A)	Pilates	General exercise	87	Industry
		RCT-O (A)	Tai chi	No treatment	160	Arthritis Foundation of Australia; Arthritis Care of the United Kingdom
Low back pain		RCT-O (A)	Motor control exercises	Graded activity	172	NHMRC project grant
		RCT-O (A)	Strain-counter strain treatment + Standard exercises	Standard exercises	99	Not specified

	Education/ Self- management	RCT-O (A)	Telephone coaching + physiotherapy care	Physiotherapy care	30	Not specified
	Physical therapy	RCT-PB (A)	Electro acupuncture for subacute and chronic whiplash	Simulated electro acupuncture treatment	124	Government funds not described
Neck		RCT-O (A)	Endurance training	Coordination training; Active mobility training	60	NHMRC development grant; Queensland Health; University
		RCT-O (A)	Manual therapy + nerve gliding exercise + education for nerve-related neck and arm pain	Usual activities	60	University
Shoulder/ arm	Physical therapy	RCT-O (A)	Passive mobilization + Exercise + Advice for shoulder pain	Exercise + Advice	98	Australian Physiotherapy Research Foundation
Wrist/hand	Physical therapy	RCT-O (A)	Night splinting for carpal tunnel syndrome	Nerve and tendon gliding exercises	21	Queensland Health; NHMRC project grant
Knee/leg	Drugs	RCT-PB (A)	Botulinum toxin type A injection for refractory anterior knee pain	Saline injection	24	Raine Medical Research Foundation at University of WA; Industry
	Physical therapy	RCT-O (A)	Prefabricated orthoses for anterior knee pain	No orthoses	40	Australian Research Council

	Drugs	RCT-PB (A)	Ultrasound-guided injection of the plantar fascia with corticosteroid for plantar fasciitis	Saline injection	82	Australian Podiatry Education and Research Foundation; Industry
Ankle/foot	Surgery	RCT-O (A)	Prolotherapy injections of hypertonic glucose + lignocaine for Achilles tendinosis	Eccentric loading exercises	40	Musculoskeletal Research Foundation of Australia; Australian Podiatry Education and Research Foundation; University
Mixed population <sup>#</sup>	Physical	RCT-O (A)	Gym based exercise	Usual care	106	Arthritis Australia; Royal Adelaide Hospital

Legend: Participant-blinded randomised control trial (RCT-PB); Open randomised control trial (RCT-O); (A) – Australian investigator-initiated; NS – not stated, NHMRC – National Health and Medical Research Council

<sup>#</sup>Planned rehabilitation for spinal or lower limb musculoskeletal impairment, disability or surgery, reduced functional mobility or falls (Participants: chronic pain (n=24), deconditioned (n=35), arthritis (n=22), joint replacement (n=11), fracture (n=14))

\*Impact Factor ranking obtained from the Web of Science Journal citation database (2011)

(<http://admin-apps.webofknowledge.com.ezproxy.lib.monash.edu.au/JCR/JCR>)

Journals searched were: Annals of the Rheumatic Diseases; Arthritis & Rheumatism; Arthritis Care & Research; Arthritis Research & Therapy; Rheumatology, The Journal of Rheumatology; Osteoarthritis & Cartilage; Journal of Orthopaedic and Sports Physical Therapy; Journal of Orthopedic Research; Clinical Orthopaedics and Related Research; Medicine & Science in Sports & Exercise; British Journal of Sports Medicine; The American Journal of Sports Medicine; Journal of Science and Medicine in Sport; Journal of Physiotherapy (formerly the Australian Journal of Physiotherapy); Physical Therapy; Archives of Physical Medicine and Rehabilitation; Clinical Rehabilitation; The Spine Journal; Spine; European Spine Journal; BioMed Central Musculoskeletal Disorders; Journal of Bone & Mineral Research; Osteoporosis International; Bone; Calcified Tissue International; Journal of Bone & Mineral Metabolism; Journal of Bone & Joint Surgery [American]; Arthroscopy; Journal of Bone & Joint Surgery [British]; Journal of Shoulder & Elbow Surgery; Journal of Arthroplasty; The New England Journal of Medicine; The Lancet; The Journal of the American Medical Association; Annals of Internal Medicine; British Medical Journal.



