14 EFFECT OF PLATELET-RICH PLASMA INJECTIONS VERSUS PLACEBO ON ANKLE SYMPTOMS AND FUNCTION IN ANKLE OSTEOARTHRITIS: A RANDOMIZED CLINICAL TRIAL

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Introduction There is a lack of effective non-surgical interventions for ankle osteoarthritis. Platelet-rich plasma (PRP) injections are widely used and reported to be beneficial for knee osteoarthritis. We evaluated the efficacy of PRP injections in the management of ankle osteoarthritis.

Materials and Methods In this six-center stratified, block-randomised, double-blind, placebo-controlled trial design we randomly assigned 100 patients to two treatment groups: PRP versus Placebo (saline) injected intra-articular. Patients had talocrural joint space narrowing. The primary outcome measure was the American Orthopaedic Foot and Ankle Society (AOFAS) score at 26 weeks follow-up. Secondary outcome measures included multiple Patient Related Outcome Measures assessing pain, function and quality of life.

Results A total of 48 patients were randomized to the PRP group and 52 patients to the placebo group. No patients were lost to follow-up for the primary outcome. Compared to baseline, the mean AOFAS score improved by 10 points in the PRP group (from 63 to 73 points; 95% CI: 6 to 14; p<0.001) and 11 points in the placebo group (from 64 to 75 points; 95% CI: 7 to 15; p<0.001). The adjusted between-group difference over 26 weeks was -1 point (95% CI, -6 to 3; p=0.56). No between group differences were seen for any of the secondary outcome measures. There was one serious adverse event in each group unrelated to the study intervention.

Conclusion In patients with ankle (talocrural) osteoarthritis intra-articular PRP injections compared with placebo injections, did not significantly improve ankle symptoms and function over 26 weeks.

24 EMPIRICALLY DERIVED GUIDELINES FOR INTERPRETING THE EFFECTIVENESS OF EXERCISE THERAPY FOR TENDINOPATHIES: A META-ANALYSIS

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Introduction The purpose of this large meta-analysis was to synthesise intervention data to create empirically derived thresholds to interpret the effectiveness of exercise therapies in the management of tendinopathy.

Materials and Methods Data from exercise therapy interventions (rotator cuff, lateral elbow, patellar, Achilles and gluteal) across eight outcome domains (disability, physical function capacity (PFC), function, pain, painLoading, painTime, range of motion (ROM), and quality of life (QoL)) were included. Mean standardized effect sizes were calculated and meta-analysed using a five-level Bayesian hierarchical model with the 0.25-, 0.5- and 0.75-quantiles used to benchmark ‘small’, ‘medium’, and ‘large’ effects.

Results A total of 1521 effect sizes from 121 studies comprising 176 treatment arms and 4370 participants were included. Substantial differences in effect size distributions were identified across outcome domains. The small, medium, and large thresholds for patient reported subjective outcomes (disability, function, pain, painLoading, painTime) were typified by values of 0.6, 1.0 and 1.6, respectively. In contrast, lower effect sizes were obtained for QoL and objective outcomes (ROM, PFC), with small, medium, and large thresholds typified by values of 0.2, 0.4 and 0.7, respectively.

Conclusion Previous thresholds widely used to interpret small, medium, and large intervention effects (small = 0.2, medium = 0.5, large = 0.8) will tend to overestimate the effectiveness of patient reported subjective outcomes in the management of tendinopathy. The context specific benchmarks developed here should be used in future with the recommendation that evaluation of intervention effectiveness include both objective and subjective measurements.

25 ARE PATIENTS SATISFIED? A SYSTEMATIC REVIEW AND META-ANALYSIS OF EXERCISE THERAPY IN THE MANAGEMENT OF TENDINOPATHY

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Introduction Patient satisfaction is consistently associated with improved health outcomes and higher quality of life. However, its relationship to tendinopathy outcomes is under-explored. The purpose of this systematic review and meta-analysis was to synthesise intervention data investigating patient satisfaction and self-perceived improvement or deterioration following engagement in exercise therapy for the management of tendinopathy.

Materials and Methods A search of controlled trials investigating exercise therapy interventions across all tendinopathies was made extracting data assessing patient rating of overall condition. Outcomes were split into those measuring satisfaction (binary) and those measuring global rating of change (GROC). Bayesian hierarchical models were used to meta-analyse proportions and mean effect size (percentage of maximum) for the two outcome categories.

Results From a total of 218 studies investigating exercise therapy for tendinopathy, 22 studies (Achilles: 40.9%, patellar: 22.7%, rotator cuff: 18.2%, elbow: 13.6% and gluteal: 4.5%) provided sufficient information to be meta-analysed. The data comprised of 35 treatment arms and 796 participants. The pooled estimate of the proportion of positive satisfaction (43 outcomes from 19 studies) was equal to 61.3% [95%CrI: 55.3–77.2], and the pooled estimate of percentage of maximum GROC (17 outcomes from 4 studies) was equal to 52.1% [95%CrI: 39.1–65.2].
Introduction Telehealth was rapidly adopted in musculoskeletal physiotherapy practice during the COVID-19 pandemic, providing a unique opportunity to evaluate the experiences and attitudes of people would not usually engage with these services.

Materials and Methods A sequential mixed-methods study recruited people with musculoskeletal pain conditions accessing private practice physiotherapist services in Australia. Participants completed an online survey of telehealth services accessed, treatments, self-reported global change in condition, and attitudes toward telehealth. A subset of survey participants completed semi-structured interviews to explore experiences and attitudes towards telehealth. Data was summarized descriptively (quantitative), analyzed using inductive thematic analysis (qualitative), and integrated facilitating deeper understanding.

Results 172 participants responded to the survey and 19 were interviewed. 95% accessed video-based telehealth, typically via zoom, and 85% reported improvement in their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition. 84% agreed it was an efficient use of time, 75% agreed it was financially viable, and 73% agreed their condition.