

Pacifying Patellar Tendon Pain

FWT vs Heavy resistance training

Background

Patellar tendinopathy is an injury that impacts sport participation, day to day function, and quality of life. Recommended treatment is eccentric or heavy slow resistance training exercise. Flywheel technology could be of benefit to patellar tendinopathy patients due to its eccentric loading characteristics.

Purpose of study

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The aim of this study by Ruffino et al (2021) therefore, was to determine the ability of flywheel resistance training (FRT) on reducing pain and improving function of patellar tendinopathy (PT) as compared to traditional heavy resistance training (HRT).

What they found

Both groups showed significant improvements in the variables of interest (see next slide) over the 12-week intervention with no statistically significant between-group differences in...

Variables

- Patient specific functional scale
- Visual analogue scales
- Provocative load tests
- Patellar tendon AP diameter
- Neovascularisation

- Ankle dorsiflexion
- Countermovement jump
- Triple hop for distance
- Leg extension
- Leg press
- Strength and power

Take home messages

For several decades, heavy eccentric and heavy slow resistance training have been considered the conservative cornerstone of manging lower limb tendinopathies. It appears, however, that FRT is equally effective for reducing pain, and improving function, strength, power, and tendon properties.

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