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Abstract title   
Effects of eccentric exercises with and without dry needling approaches at the patients with chronic rotator cuff tendinopathy

**Shiva Pourshafie1 ; Zinat Ashnagar 2; Shohreh Jalaee3; Siamak bashardoust Tajali 4**

*1Tehran University of Medical Science, Tehran, Iran  
E-mail: shiva\_porshafioe@yahoo.com*

**Abstract**

Background and objectives

Evidences showed that eccentric exercises (EE) could be effective on reducing inflammation. Dry needling (DN) can be applied to increase blood flow. This study aimed to evaluate a combined treatment protocol (eccentric exercises and dry needling) to care chronic tendinopathy in rotator cuff tendons.

Methods

Twenty-eight patients with shoulder pain were recruited for this study. The patients were randomly divided into two groups of treatment including; EE and EE + DN. All patients had eight sessions of EE and one group of patients were under DN as well. They were evaluated four times (before, after third session, after completion and after 72 h of treatment). The patients were evaluated based on their level of pain and function.

Results

There was a significant improvement after treatment for all variables in both groups (*P* < 0.001). This improvement level would be constant up to 72 h in the patients under combined treatment (P > 0.05), while the improvement level was not similar for all outcome measures in the patients under treatment of EE only. These patients showed improvement just in TFAST scale up to 72 h (P > 0.08).

Conclusion

The results showed that EE + DN could be more effective compare than EE alone on treatment of the patients with chronic rotator cuff tendinopathy.

**Keywords**

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Results

There was a significant improvement after treatment for all variables in both groups (P < 0.001). This improvement level would be constant up to 72 h in the patients under combined treatment (P > 0.05), while the improvement level was not similar for all outcome measures in the patients under treatment of EE only. These patients showed improvement just in TFAST scale up to 72 h (P > 0.08).

Conclusion

The results showed that EE + DN could be more effective compare than EE alone on treatment of the patients with chronic rotator cuff tendinopathy.

**Keywords**

Tendonitis, Rotator cuff muscles, Tendinopathy, Eccentric exercise, Dry needling

**Biography** **(150 words limit)**

I am a 28 years old physiotherapist who has been working about 8 years in this field. I have achieved my bachelor grade at Iran University of Medical Science and my master degree at Tehran University of Medical Science. I have previous experience in supporting a variety of patients ranging from children suffering from development problems to adults and the elderly affected by and recovering from injuries and movement disorders. I have experiences in treating pelvic floor disease and infertility too.

**Presenting Author Details and Photo**

Full Name: Shiva Pourshafie  
Email ID: shiva\_porshafie@yahoo.com  
Phone No: 989352169185

LinkedIn: linkedin.com/shiva-pourshafie-994450290  
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