# Inside **ELvation**

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The result is of high clinical relevance, as the study was able to demonstrate the superiority of ESWT over steroid injections in the course of time and the long-term efficacy in the treatment of supraspinatus tendinitis. The author team works with our **PiezoWave2** and the therapy source **FB10G6**.

Comparison of Extracorporeal Shock Wave Therapy and Ultrasound-Guided Shoulder Injection Therapy in Patients with Supraspinatus Tendinitis (using the PiezoWave2 and the FB10G6)

# Background

Only few studies have compared the effects of ESWT with those of steroid injections in the treatment of patients with supraspinatus tendinitis — a subtype of non-calcific shoulder tendinitis. This study compared the clinical effect of ESWT with that of ultrasound (US)-guided shoulder steroid injection therapy in patients with supraspinatus tendinitis.

## Method and Findings

26 patients were randomized: 13 in the US-guided shoulder injection group and 13 in the ESWT group. Treatment outcomes were evaluated using the pain visual analog scale (pVAS), the American Shoulder and Elbow Society (ASES) score and the Constant score at baseline and at

Elbow Society (ASES) score, and the Constant score at baseline and at 1 and 3 months after the procedure.

Remarkably, the effects of independent ESWT treatment consistently increased over time, those of the US-guided shoulder steroid injection did not, presumably because the rebound phenomenon diminished the effects of the steroid treatment.

It should be noted that there are potential complications of steroid injections, including subcutaneous atrophy, infection, and ruptured tendon. Glucocorticoids has been reported to have significant negative effects on tendon cells.

### Conclusion

ESWT can be a safe and effective treatment for shoulder tendinitis and US-guided shoulder injections did not produce superior effects than independent ESWT treatment. Considering the complications and rebound phenomenon of steroid injections, ESWT treatment may be a good alternative in patients with supraspinatus tendinitis with increasing effects over the time.

The full article can be read at the following link: <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9715920/pdf/cios-14-585.pdf">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9715920/pdf/cios-14-585.pdf</a>





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