

통증 및 근골격재활

게시일시 및 장소 : 10 월 18 일(금) 08:30-12:20 Room G(3F)

질의응답 일시 및 장소 : 10 월 18 일(금) 10:00-10:45 Room G(3F)

P 1-121

Therapeutic Effect of PDRN Prolotherapy in Patients with Traumatic Complete Rupture of ATFL

Jae Hwal Rim^{1*}, Dae Gil Kwon^{2†}, Seong Ho Jo¹, Jong Wook Kim³

Medical Center of 7th Infantry Division of Republic of Korean Army, Department of Rehabilitation Medicine¹, Comprehensive&Integrative Medicine Hospital, Department of Rehabilitation Medicine², Korea Airforce 17th Fighter Wing Aeromedical Squadron, Department of Internal Medicine³

Objective

To evaluate the short-term effect of polydeoxyribonucleotide (PDRN) prolotherapy in patients with traumatic complete rupture of anterior talofibular ligament (ATFL).

Material and Methods

Fifteen patients (13 male, 2 female, mean age 34.4; range 20-54) with traumatic complete rupture of ATFL were included. All patients were diagnosed by ultrasound (US) and treated with US guided PDRN prolotherapy after ATFL injury following 2 or 3 days. After PDRN prolotherapy, immobilization and clutch gait were applied for 3 weeks. Visual analogue scale (VAS), American Orthopedic Foot and Ankle Score (AOFAS), single assessment numeric evaluation (SANE) were measured pre-treatment, 1, 3 weeks after treatment.

Results

One and 3 weeks after treatment, VAS, AOFAS, SANE score were significantly improved compared with pretreatment (Table 1). There was no complications after PDRN prolotherapy.

Conclusion

PDRN prolotherapy can be a useful treatment in patients with traumatic complete rupture of ATFL.

Table 1. Outcome measurements after treatment

| | Before treatment | 1 week | 3 weeks |
|------------------|------------------|---------------------------|---------------------------|
| VAS score | 5.6 ± 1.4 | 2.9 ± 0.9 ^{a)} | 1.2 ± 0.5 ^{a)} |
| SANE | 32.6 ± 7.5 | 78.5 ± 11.3 ^{a)} | 83.8 ± 10.3 ^{a)} |
| AOFAS | 30 ± 5.3 | 67.4 ± 11.7 ^{a)} | 74.6 ± 10.4 ^{a)} |

VAS = visual analogue scale; SANE = single assessment numeric evaluation; AOFAS = american orthopedic foot and ankle score.

* p<0.05 by independent T-test compared with before treatment