



Intradermal mesotherapy versus systemic therapy in the treatment of musculoskeletal pain: A prospective randomized study

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Abstract

Statement of the Problem: Acute musculoskeletal injuries are one of the most common painful presentation when admission to the emergency department. The aim of the study is to compare the tenoxicam mesotherapy with intravenous dexketoprofen in pain control in patients with acute musculoskeletal injury. **Methods:** This parallel randomized controlled trial was conducted with the patients admitted to the emergency department with musculoskeletal injury. Intravenous dexketoprofen was administered to the control group, and mesotherapy treatment was performed to the other group. Differences between 10th, 30th, 60th and 120th minutes VAS scores and on the admission VAS score, clinically meaningful change in pain intensity, and adverse effect of the procedures were compared among groups. **The results:** The differences in VAS scores and the presence of clinically meaningful change in pain intensity were statistically significantly higher in mesotherapy group than the systemic therapy group in all time periods. During one-week follow-up period, there was no reported adverse effect neither in mesotherapy group nor in the systemic therapy group. **Conclusion & Significance:** The mesotherapy treatment may be superior than the systemic therapy for pain relief in musculoskeletal injury in short term follow-up in emergency department settings.

Biography

Abdullah Osman KOÇAK is a faculty member of the Ataturk University Faculty of Medicine, Department of Emergency Medicine. He is the deputy head of the Emergency Medicine clinic. He completed his university education at the same university. He is a member of the Association of Emergency Medicine Specialists. He has many works in the field.

Recent Publications

Akbas I, Kocak AO., Comparison of intradermal mesotherapy with systemic therapy in the treatment of low back pain: A prospective randomized study Am J Emerg Med. 2019;S0735-6757(19)30785-5.

Ahiskalioglu A, Kocak AO., Erector spinae plane block for bilateral lumbar transverse process fracture in emergency department: A new indication. Am J Emerg Med. 2018;36(10):1927.e3–1927.e4.

Kocak AO, Ahiskalioglu. Comparison of intravenous NSAIDs and trigger point injection for low back pain in ED: A prospective randomized study. Am J Emerg Med. 2019;37(10):1927–1931.

Gur STA, Dogruyol S, Kocak AO, et al. Comparison of effectiveness coolant spray and placebo in patients with acute ankle trauma prospective randomized controlled trial Am J Emerg Med. 2020;S0735-6757(19)30861-7

Kocak AO, Cakir Z, Akbas I, et al. Comparison of two scores of short term serious outcome in COPD patients [published online ahead of print, 2019 Jul 27]. Am J Emerg Med. 2019;158376.

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