

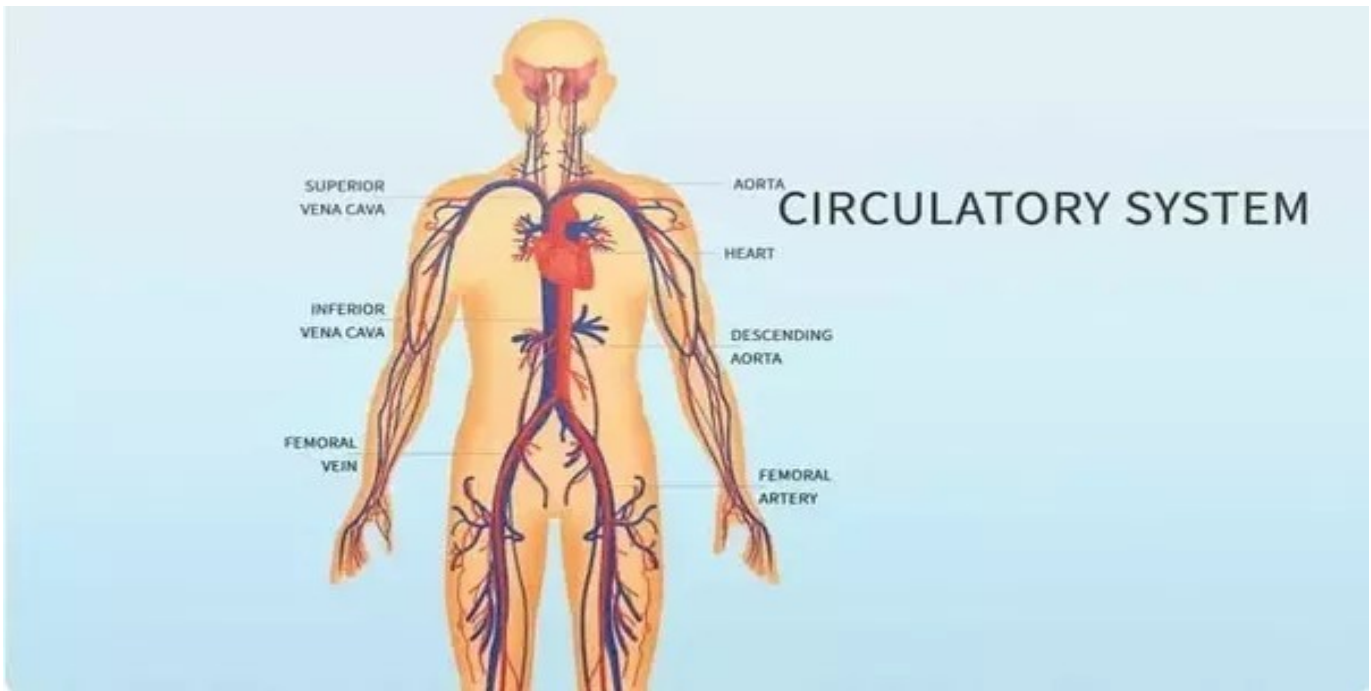
# Medical PEMF Studies



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## BONE HEALING

### Effects of pulsed magnetic energy on a microsurgically transferred vessel.



1. *Plast Reconstr Surg.* 2000 Apr;105(4):1371-4.

Roland D(1), Ferder M, Kothuru R, Fairman T, Strauch B.

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This article reports the findings of a study that attempted to elucidate whether pulsed magnetic energy stimulates neovascularization *in vivo*, using a microsurgically created arterial loop model in a prospective randomized trial of 108 rats (n = 12/group). Pulsed magnetic energies of 0.1 and 2.0 gauss were applied immediately postoperatively and for 4, 8, and 12 weeks, respectively, with a statistically significant increase in neovascularization among the treated

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animals compared with control rats. The study provides a starting point for future study and evaluation of the stimulation of angiogenesis with the use of pulsed magnetic energy and suggests a possible use of this modality to increase the quality of revascularized tissue.

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