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Pseudoarthrosis

In this study, 92 congenital pseudoarthrosis patients received treatment with pulsing electromagnetic fields. Results indicated a 76-percent rate of lesion recovery. **(1)**

In this study, 34 patients with congenital pseudoarthrosis-associated infantile nonunions received treatment with pulsing electromagnetic fields. Results indicated that 50 percent experienced full healing, 21 percent experienced healing with need for protections, and 29 percent experienced failure. The majority of failures were among men with a history of early fracture. Following the demonstration of coil effects, the PEMF treatment was combined with surgical realignment, immobilization, and grafting. **(2)**

In this study, 29 congenital pseudoarthrosis patients received extremely-lowfrequency pulsing electromagnetic fields. Results: Over 70 percent experienced full healing, 21 percent experienced healing with need for protections, and 29 percent experienced failure. The majority of failures were among men with a history of early fracture. **(3)**

In this article, the authors report on their own clinical use of electrodynamic field therapy in the treatment of 271 pseudoarthrosis patients over a period of 8 years. They report bony healing in 92 percent of such cases. **(4)**

This study examined the effects of pulsed electromagnetic fields on 91 patients with congenital pseudoarthrosis of the tibia. Results showed an overall success rate of 72 percent. **(5)**

Results of this study indicated that treatment with pulsed electromagnetic fields had beneficial effects in children suffering from congenital pseudoarthrosis. **(7)**

Results of this study indicated that pulsed electromagnetic fields (72 Hz) can be an effective therapy for patients suffering from lesions associated with congenital pseudoarthroses when treatment is combined with appropriate orthopedic management. **(8)**

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Pseudoarthrosis (Cont.)

Citations:

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(2) C.A. Bassett, Congenital Pseudarthroses of the Tibia: Treatment with Pulsing Electromagnetic Fields, Clin Orthop, (154), January-February 1981, p. 136-148.

(3) C.A. Bassett, A Non-operative Salvage of Surgically-resistant Pseudarthroses and Non-unions Pulsing Electromagnetic Fields. A Preliminary Report, Clin Orthop,May 1977, p. 128-143.

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(6) M.L. Sutcliffe A.A. Goldberg, The Treatment of Congenital Pseudoarthrosis of the Tibia with Pusling Electromagnetic Fields: A Survey of 52 Cases, Clinical Orthop, (166), 1982, p. 45-57.

(7) J.S. Kort C.A.L. Bassett, Role of Electricity in the Treatment of Congenital Pseudoarthrosis of the Tibia, Reconstr Surg Traumatol, 19, 1985, p. 140-146.

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