

Abstract ▾

Send to: ▾

[Clin Ther.](#) 1987;9(2):183-92.**Clinical usefulness of intrathecal injection of methylcobalamin in patients with diabetic neuropathy.**[Ide H](#), [Fujiya S](#), [Asanuma Y](#), [Tsuji M](#), [Sakai H](#), [Agishi Y](#).**Abstract**

Seven men and four women with symptomatic diabetic neuropathy were treated with methylcobalamin (2,500 micrograms in 10 ml of saline) injected intrathecally. Treatment was begun when patients had good metabolic control, as determined by measurements of plasma glucose and hemoglobin, and was repeated several times with a one-month interval between injections. Three patients were re-treated one year after the last intrathecal injection. Symptoms in the legs, such as paresthesia, burning pains, and heaviness, dramatically improved. The effect appeared within a few hours to one week and lasted from several months to four years. The mean peroneal motor-nerve conduction velocity did not change significantly. The mean (+/- SD) concentration of methylcobalamin in spinal fluid was 114 +/- 32 pg/ml before intrathecal injection (n = 5) and 4,752 +/- 2,504 pg/ml one month after intrathecal methylcobalamin treatment (n = 11). Methylcobalamin caused no side effects with respect to subjective symptoms or characteristics of spinal fluid. These findings suggest that a high concentration of methylcobalamin in spinal fluid is highly effective and safe for treating the symptoms of diabetic neuropathy.

PMID: 3568063 [PubMed - indexed for MEDLINE]



MeSH Terms, Substances ▾

LinkOut - more resources ▾

PubMed Commons[PubMed Commons home](#)

0 comments

[How to join PubMed Commons](#)**Save items** ▲

★ Add to Favorites ▾

Similar articles ▲[Intravenous methylcobalamin treatment for ı \[Intern Med. 1999\]](#)[Effects of methylcobalamin on dia \[Clin Neurol Neurosurg. 1992\]](#)[Vitamin B12 may be more effecti \[Int J Food Sci Nutr. 2009\]](#)[Review Effectiveness of vitamin B12 ı \[Acta Neurol Taiwan. 2005\]](#)[Review Meta-analysis of n \[Diabetes Res Clin Pract. 2013\]](#)[See reviews...](#)[See all...](#)**Cited by 8 PubMed Central articles** ▲[Paralytic ileus due to a novel anticancer \[Mol Clin Oncol. 2016\]](#)[Inhibition of Hyperpolarization-Activated Ca \[Neural Plast. 2015\]](#)[Metformin With Either Histamine H2-Receptc \[Clin Diabetes. 2015\]](#)[See all...](#)**Related information** ▲[Articles frequently viewed together](#)[Cited in systematic reviews](#)[MedGen](#)[PubChem Compound \(MeSH Keyword\)](#)[PubChem Substance \(MeSH Keyword\)](#)[Cited in PMC](#)