

## BEMER-STUDIES IN PUBMED 2023

- 1. Effect of osteopathic manipulative treatment and Bio-Electro-Magnetic Energy Regulation (BEMER) therapy on generalized musculoskeletal neck pain in adults**  
Genevieve M Palmer<sup>1</sup>, Nicholas Dominick<sup>1</sup>, Melissa Kane<sup>1</sup>, Sawyer Bawek<sup>1</sup>, Blake Burch<sup>1</sup>, Taylor Sanders<sup>1</sup>, Davong Phrathep, Nicole Myers<sup>2</sup>, Santiago Lorenzo<sup>3</sup>  
PMID: 38033194 DOI: 10.1515/jom-2023-0128  
<https://pubmed.ncbi.nlm.nih.gov/38033194/>
- 2. Treatment of patients with multiple organ dysfunction syndrome (MODS) with an electromagnetic field coupled to biorhythmically defined impulse configuration: the MicrocircMODS study**  
Karl Werdan, Sebastian Nuding, Diethelm Kühnert, Ramzi Kolthoum, Artjom Schott, Felix Quitter, Andreas Wienke, Daniel Sedding  
Clin Res Cardiol. 2023 Sep 17. PMID: 37717230 DOI: 10.1007/s00392-023-02293-2  
<https://pubmed.ncbi.nlm.nih.gov/37717230/>
- 3. The Effects of "Physical BEMER® Vascular Therapy" on Work Performed During Repeated Wingate Sprints**  
Collin M Fehr, Gary McEwen, Clay Robinson  
Res Q Exerc Sport. 2023 Sep;94(3):732-737. doi: 10.1080/02701367.2022.2053040. Epub 2022 Apr 28. PMID: 35481952 DOI: 10.1080/02701367.2022.2053040  
<https://pubmed.ncbi.nlm.nih.gov/35481952/>
- 4. The effect of bio-electro-magnetic-energy-regulation therapy on sleep duration and sleep quality among elite players in Norwegian women's football**  
Frode Moen, Svein Arne Pettersen, Kine Gjertsås, Marte Vatn, Martijn Ravenhorst, Atle Kvålsvoll, Kristian Hovde Liland, Ellen F Mosleth  
Front Psychol. 2023 Aug 8;14:1230281. doi: 10.3389/fpsyg.2023.1230281. eCollection 2023. PMID: 37614490 PMCID: PMC10443099 DOI: 10.3389/fpsyg.2023.1230281  
<https://pubmed.ncbi.nlm.nih.gov/37614490/>
- 5. Study of the functional capacity and health status of patients with hip as well as knee osteoarthritis**  
Anett Tóvári, Anikó Kónigné Péter, Péter Tardi, Eleonóra Leidecker, Eszter Ambrus, Iuliana Boros-Balint, Mária Hermann, János Kránicz, Márta Hock  
Orv Hetil. 2022 Nov 27;163(48):1917-1922. Print 2022 Nov 27.  
PMID: 36436060 DOI: 10.1556/650.2022.32630  
<https://pubmed.ncbi.nlm.nih.gov/36436060/>

- 6. Physical Vascular Therapy (BEMER) Affects Heart Rate Asymmetry in Patients With Coronary Heart Disease**  
 Zita Kreska, Péter Mátrai, Balázs Nemeth, Bella Ajtay, István Kiss, László Hejjel, Zénó Ajtay  
 In Vivo. May-Jun 2022;36(3):1408-1415. PMID: 35478109 DOI: 10.21873/invivo.12845  
<https://pubmed.ncbi.nlm.nih.gov/35478109/>
- 7. Effects of Acute Low-Frequency Pulsed Electromagnetic Field Therapy on Aerobic Performance during a Preseason Training Camp: A Pilot Study**  
 Nauris Tamulevicius, Tanuj Wadhi, Guillermo R Oviedo, Ashmeet S Anand, Jung-Jung Tien, Fraser Houston, Eric Vlahov  
 Int J Environ Res Public Health. 2021 Jul 20;18(14):7691. doi: 10.3390/ijerph18147691.  
 PMID: 34300141 PMCID: PMC8307531 DOI: 10.3390/ijerph18147691  
<https://pubmed.ncbi.nlm.nih.gov/34300141/>
- 8. Effects of osteopathic manipulative treatment and bio-electromagnetic energy regulation therapy on lower back pain**  
 Kyle Auger, Gregory Shedlock, Kasey Coutinho, Nicole E Myers, Santiago Lorenzo  
 J Osteopath Med. 2021 Mar 2;121(6):561-569. doi: 10.1515/jom-2020-0132.  
 PMID: 33694338 <https://pubmed.ncbi.nlm.nih.gov/33694338/>
- 9. The Efficacy of Adding Electromagnetic Therapy or Laser Therapy to Medications in Patients with Diabetic Peripheral Neuropathy**  
 Alsayed A Shanb, Enas F Youssef, Waleed I Al Baker, Fahd A Al-Khamis, Ali Hassan, Noor-Ahmad Jatoi  
 J Lasers Med Sci. 2020 Winter;11(1):20-28. doi: 10.15171/jlms.2020.05. Epub 2020 Jan 18.  
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<https://pubmed.ncbi.nlm.nih.gov/32099623/>
- 10. The influence of pulsed electromagnetic field therapy (PEMFT) on cutaneous blood flow in healthy volunteers**  
 Biermann Niklasa, Sommerauer Laura, Diesch Sophia, Koch Christopha, Jung Friedrichb, Kehrer Andreas, Prantl Lukasa, Taeger Christian D.a  
 Clin Hemorheol Microcirc. 2020;76(4):495-501. doi: 10.3233/CH-209224.  
 PMID: 33216020 DOI: 10.3233/CH-209224 <https://pubmed.ncbi.nlm.nih.gov/33216020/>
- 11. The Influence of Pulsed Electromagnetic Field Therapy on Lymphatic Flow During Supermicrosurgery**  
 Niklas Biermann, Marc Ruewe, Florian Zeman, Sebastian Geis, Daniel Schiltz, Lukas Prantl, Christian D Taeger  
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- 12. Bio Electro Magnetic Energy Regulation (BEMER) therapy in myofascial pain dysfunction syndrome: A preliminary study.**  
Kanaparathi A, Kesary SPR, Pujita C, Gopalaiah H.  
J Oral Biol Craniofac Res. 2020 Apr-Jun;10(2):38-42. doi: 10.1016/j.jobcr.2020.01.007. Epub 2020 Feb 3. PMID: 32090003 <https://pubmed.ncbi.nlm.nih.gov/32090003/>
- 13. Bio-Electro-Magnetic-Energy-Regulation (BEMER) for the treatment of type 1 complex regional pain syndrome: A Pilot study.**  
Benedetti M., Cavazzuti L., Mosca M., Fusaro I. and Zati A.  
Physiotherapy Theory and Practice. 2020 Apr; 36(4):498-506. Epub 2018 Jul 9.  
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- 14. Pulsed electromagnetic field therapy in the treatment of pain and other symptoms in fibromyalgia: A randomized controlled study.**  
Multanen J., Häkkinen A., Heikkinen P., Kautiainen H. Mustalampi S. ja Ylinen J.  
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PMID: 29709070 <https://pubmed.ncbi.nlm.nih.gov/29709070/>
- 15. BEMER Electromagnetic Field Therapy Reduces Cancer Cell Radioresistance by Enhanced ROS Formation and Induced DNA Damage.**  
Storch K, Dickreuter E, Artati A, Adamski J, Cordes N.  
PLoS One. 2016 Dec 13;11(12):e0167931. doi: 10.1371/journal.pone.0167931. eCollection 2016. PMID: 27959944 Free PMC article.  
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- 16. BEMER Therapy Combined with Physiotherapy in Patients with Musculoskeletal Diseases: A Randomised, Controlled Double Blind Follow-Up Pilot Study.**  
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Evid Based Complement Alternat Med. 2015;245742. doi: 10.1155/2015/245742. Epub 20.5.2015  
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- 17. Effects of physical stimulation of spontaneous arteriolar vasomotion on microcirculation and the immune system in diabetes and impaired wound healing.**  
Klopp R, Schulz J, Niemer W, Ruhnau KJ.  
Z Gerontol Geriatr. 2014 Jul;47(5):415-24. doi: 10.1007/s00391-013-0567-8. German.  
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- 18. The effects of the "physical BEMER® vascular therapy", a method for the physical stimulation of the vasomotion of precapillary microvessels in case of impaired microcirculation, on sleep, pain and quality of life of patients with different clinical pictures on the basis of three scientifically validated scales.**

Bohn W, Hess L, Burger R.  
J Complement Integr Med. 2013;10(Suppl): S5-S12. doi: 10.1515/jcim-2013-0037.  
PMID: 23940071 <https://www.ncbi.nlm.nih.gov/pubmed/?term=23940071>
- 19. Complementary-therapeutic stimulation of deficient autorhythmic arteriolar vasomotion by means of a biorhythmically physical stimulus on the microcirculation and the immune system in 50-year-old rehabilitation patients.**

Klopp RC, Niemer W, Schulz J.  
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PMID: 24021604 <https://www.ncbi.nlm.nih.gov/pubmed/?term=24021604>
- 20. Effects of physical stimulation of spontaneous arteriolar vasomotion in patients of various ages undergoing rehabilitation.**

Klopp RC, Niemer W, Schulz J.  
J Complement Integr Med. 2013;10(Suppl): S13-9. doi: 10.1515/jcim-2013-0032.  
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- 21. Influence of a specific, biorhythmically defined physical stimulus on deficient vasomotion in small-caliber arterioles in the subcutis in patients with diabetic polyneuropathy.**

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- 22. Effects of various physical treatment methods on arteriolar vasomotion and microhemodynamic functional characteristics in case of deficient regulation of organ blood flow. Results of a placebo-controlled, double-blind study.**

Klopp RC, Niemer W, Schmidt W.  
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PMID: 24021606 <https://www.ncbi.nlm.nih.gov/pubmed/?term=24021606>
- 23. The technological development history and current significance of the "physical BEMER® vascular therapy" in medicine.**

Bohn W. No abstract available.  
J Complement Integr Med. 2013;10(Suppl):S1-3. doi: 10.1515/jcim-2013-0036. PMID: 24021601 <https://www.ncbi.nlm.nih.gov/pubmed/?term=24021601>

## Studies with BEMER 3000 Plus device

- 24. Effectiveness of pentoxifylline and of bio-electromagnetic therapy in lower limb obliterative arterial disease.**  
Bernát SI.  
Orv Hetil. 2013 Oct 20;154(42):1674-9. doi: 10.1556/OH.2013.29693. Hungarian.  
PMID: 24121220 <https://www.ncbi.nlm.nih.gov/pubmed/24121220>
- 25. Synergistic effect of EMF-BEMER-type pulsed weak electromagnetic field and HPMA-bound doxorubicin on mouse EL4 T-cell lymphoma.**  
Říhová B, Etrych T, Šírová M, Tomala J, Ulbrich K, Kovář M.  
J Drug Target. 2011 Dec;19(10):890-9. doi: 10.3109/1061186X.2011.622403. Epub 2011 Oct 10.  
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- 26. Long-term Effects of Bio-electromagnetic-energy regulation Therapy on Fatigue in Patients With Multiple Sclerosis.**  
Ziemssen T, Piatkowski J, Haase R.  
Altern Ther Health Med. 2011 Nov-Dec;17(6):22-8.  
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- 27. Effect of BEMER magnetic field therapy on the level of fatigue in patients with multiple sclerosis: a randomized, double-blind controlled trial.**  
Piatkowski J, Kern S, Ziemssen T.  
J Altern Complement Med. 2009 May;15(5):507-11. doi: 10.1089/acm.2008.0501.  
PMID: 19422286 <https://www.ncbi.nlm.nih.gov/pubmed/?term=19422286>
- 28. Effects of weak, low-frequency pulsed electromagnetic fields (BEMER type) on gene expression of human mesenchymal stem cells and chondrocytes: an in vitro study.**  
Walther M1, Mayer F, Kafka W, Schütze N.  
Electromagn Biol Med. 2007;26(3):179-90.  
PMID: 17886005 <https://www.ncbi.nlm.nih.gov/pubmed/17886005>