

STUDY LIST - UPDATE

EFFICACY & EFFECTIVENESS: APPLICATIONS OF FUNCTIONAL MAGNETIC STIMULATION (FMS) TRAINING

URINARY INCONTINENCE [INCLUDING: STRESS INCONTINENCE; URGE INCONTINENCE & MIXED URINARY INCONTINENCE]

1. The Effects of Extracorporeal Magnetic Innervation in the Treatment of Women with Urinary Incontinence: A Systematic Review

Strojek, K.; Strączyńska, A.; Radzimińska, A.; Weber-Rajek, M.
J. Clin. Med. 2023, 12, 5455. <https://doi.org/10.3390/jcm12175455>

2. Evaluation of Possible Side Effects in the Treatment of Urinary Incontinence with Magnetic Stimulation.

Pavčnik, M.; Antić, A.; Lukanović, A.; Krpan, Ž.; Lukanović, D.
Medicina 2023, 59, 1286. <https://doi.org/10.3390/medicina59071286>

3. Effectiveness of Magnetic Stimulation in the Treatment of Urinary Incontinence: A Systematic Review and Results of Our Study.

Lukanović D, Kunič T, Batkoska M, Matjašič M, Barbič M.
J Clin Med. 2021 Nov 8;10(21):5210. doi: 10.3390/jcm10215210

4. Efficacy of magnetic stimulation for female stress urinary incontinence: a meta-analysis

Sun K, Wu G, Wang J, Wang T, Zhang D, Cui Y, Wu J.
Therapeutic Advances in Urology 2021. 13:

5. Magnetic stimulation for female patients with stress urinary incontinence, a meta-analysis of studies with short-term follow-up .

Peng L, Zeng X, Shen H, Luo D.
Medicine (Baltimore). 2019 May;98(19):e15572. doi: 10.1097/MD.00000000000015572.

6. An Effective Meta-analysis of Magnetic Stimulation Therapy for Urinary Incontinence .

He Q, Xiao K, Peng L, Lai J, Li H, Luo D, Wang K.
Sci Rep. 2019 Jun 24. 9,9077 doi: 10.1038/s41598-019-45330-9

TRIALS / OTHER STUDY DESIGNS EXAMINING URINARY INCONTINENCE [INCLUDING: SUI, MUI AND UUI]

7. A Qualitative and Quantitative Study to Evaluate the Effectiveness and Safety of Magnetic Stimulation in Women with Urinary Incontinence Symptoms and Pelvic Floor Disorders.

Filippini M, Biordi N, Curcio A, Comito A, Pennati BM, Farinelli M.
Medicina (Kaunas). 2023 May 3;59(5):879. doi: 10.3390/medicina59050879. PMID: 37241111

8. Randomized Trial of HIFEM Pelvic Floor Stimulation Device Compared with Pelvic Floor Exercises for Treatment of Urinary Incontinence.

Guerette N, Molden S, Gopal M, Kohli N
J Women's Health Care. 2023, 12(9):680.

9. Flat Magnetic Stimulation for Stress Urinary Incontinence: A Prospective Comparison Study.

Frigerio M, Barba M, Cola A, Marino G, Volontè S, Melocchi T, De Vicari D, Maruccia S.
Bioengineering. 2023; 10(3):295. <https://doi.org/10.3390/bioengineering10030295>

- 10. Pelvic Floor Muscle Training versus Functional Magnetic Stimulation for Stress Urinary Incontinence in Women: A Randomized Controlled Trial.**
Dudonienė V, Kirklytė I, Žlibinaitė L, Jerez-Roig J, Rutkauskaitė R.
J Clin Med. 2023 Apr 27;12(9):3157. doi: 10.3390/jcm12093157. PMID: 37176598; PMCID: PMC10179444.
- 11. Flat Magnetic Stimulation for Stress Urinary Incontinence: A 3-Month Follow-Up Study.**
Barba M, Cola A, Rezzan G, Costa C, Melocchi T, De Vicari D, Terzoni S, Frigerio M, Maruccia S.
Healthcare (Basel). 2023 Jun 13;11(12):1730. doi: 10.3390/healthcare11121730. PMID: 37372848; PMCID: PMC10298542
- 12. Comparison of the Effects of Extracorporeal Magnetic Innervation on Stress Incontinence and Stroke Related Urinary Incontinence.**
Aras, Berke & KUZU, Ömer & YARDIMCI, Gökhan & Kesikburun, Serdar & YAŞAR, Evren.
Fiziksel Tıp ve Rehabilitasyon Bilimleri Dergisi., 2022. 25. 57-62. 10.31609/jpmrs.2021-84020.
- 13. Is It Possible to Improve Urinary Incontinence and Quality of Life in Female Patients? A Clinical Evaluation of the Efficacy of Top Flat Magnetic Stimulation Technology.**
Lopopolo G, Salsi B, Banfi A, Isaza PG, Fusco I.
Bioengineering. 2022; 9(4):140. <https://doi.org/10.3390/bioengineering9040140>
- 14. Efficacy and Safety of Pulsed Electromagnetic Field (PEMF) Stimulation in the Treatment of Urinary Symptoms in Women with Urinary Incontinence.**
Madani, Ali Hamidi; Chafjiri, Fatemeh Mohammadalizadeh; Esmaeili, Samaneh,*; Madani, Zahra Hamidi; Leili, Ehsan Kazemnejad.
Urological Science 33(4):p 170-175, Oct–Dec 2022. | DOI: 10.4103/UROS.UROS_123_21
- 15. Efficacy of 3 Tesla Functional Magnetic Stimulation for the Treatment of Female Urinary Incontinence.**
Braga, A.; Castronovo, F.; Caccia, G.; Papadia, A.; Regusci, L.; Torella, M.; Salvatore, S.; Scancarello, C.; Ghezzi, F.; Serati, M.
J. Clin. Med. 2022, 11, 2805. <https://doi.org/10.3390/jcm11102805>
- 16. Pulsed Magnetic Stimulation for Stress Urinary Incontinence and Its Impact on Sexuality and Health.**
González-Isaza P, Sánchez-Borrego R, Lugo Salcedo F, Rodríguez N, Vélez Rizo D, Fusco I, Callarelli S.
Medicina. 2022; 58(12):1721. <https://doi.org/10.3390/medicina58121721>
- 17. Efficacy Comparison between Kegel Exercises and Extracorporeal Magnetic Innervation in Treatment of Female Stress Urinary Incontinence: A Randomized Clinical Trial.**
Mikuš M, Kalafatić D, Vrbanić A, Šprem Goldštajn M, Herman M, Živković Njavro M, Živković K, Marić G, Čorić M.
Medicina. 2022; 58(12):1863. <https://doi.org/10.3390/medicina58121863>
- 18. Effect of Long Term Pulsed Electromagnetic Field on Postmenopausal Stress Urinary Incontinence**
Mahmoud, M. S., Hanafy, H. M., Awad, M. A., & Eldesouky, E. A.
Int. J. Thin.Film. Sci. Tec. 2022, 11, No. S1,37- 43
- 19. Impact of pulsed electromagnetic field on mixed incontinence in parous women a prospective randomized study.**
Elhosary, E., Lamyaa A. Fergany, Marwa A. Mohamed
Clin. Exp. Obstet. Gynecol. 2022, 49(4), 91.<https://doi.org/10.31083/j.ceog4904091>
- 20. Assessment of the Short-Term Effects after High-Inductive Electromagnetic Stimulation of Pelvic Floor Muscles: A Randomized, Sham-Controlled Study.**
Ptaszkowski K, Malkiewicz B, Zdrojowy M, Ptaszkowska L, Paprocka-Borowicz M.
J Clin Med. 2020 Mar;9(3):874.doi: 10.3390/jcm9030874

21. **A Comparative Study on the Effects of High-Intensity Focused Electromagnetic Technology and Electrostimulation for the Treatment of Pelvic Floor Muscles and Urinary Incontinence in Parous Women: Analysis of Posttreatment Data**
Silantyeva E, Zarkovic D, Astafeva E, Soldatskaia R, Orazov M, Belkovskaya M, Kurtser M.
Female Pelvic Med Reconstr Surg. 2020 Jan 25. doi: 10.1097/SPV.0000000000000807. Online ahead of print.
22. **Safety and Efficacy of a Non-Invasive High-Intensity Focused Electromagnetic Field (HIFEM) Device for Treatment of Urinary Incontinence and Enhancement of Quality of Life**
Samuels JB, Pezzella A, Berenholz J, Alinsod R.
Lasers Surg Med. 2019 Nov;51(9):760-766. doi: 10.1002/lsm.23106. Epub 2019 Jun 7.
23. **Effect of pulsed magnetic stimulation on quality of life of female patients with stress urinary incontinence: an IDEAL-D stage 2b study**
Lim R, Liong ML, Leong WS, Karim Khan NA, Yuen KH
Int Urogynecol J. 2018 Apr;29(4):547-554. doi: 10.1007/s00192-017-3439-8. Epub 2017 Aug 8.
24. **High-power Magnetotherapy: A new Weapon in Urinary Incontinence?**
Vadalà M, Palmieri B, Malagoli A, Laurino C
Low Urin Tract Symptoms. 2018 Sep;10(3):266-270. doi: 10.1111/luts.12174. Epub 2017 Jun 18.
25. **Effects of magnetic stimulation on urodynamic stress incontinence refractory to pelvic floor muscle training in a randomized sham-controlled study.**
Yamanishi T, Suzuki T, Sato R, Kaga K, Kaga M, Fuse M
Low Urin Tract Symptoms. 2017 Sep 29. doi: 10.1111/luts.12197
26. **Pulsed Magnetic Stimulation for Stress Urinary Incontinence: 1-Year Followup Results.**
Lim R, Liong ML, Leong WS, Karim Khan NA, Yuen KH
J Urol. 2017 May;197(5):1302-1308. doi: 10.1016/j.juro.2016.11.091
27. **The therapeutic efficiency of extracorporeal magnetic innervation treatment in women with urinary tract dysfunction following radical hysterectomy.**
Sun MJ, Sun R, Chen LJ.
J Obstet Gynaecol. 2015 Jan;35(1):74-8. doi: 10.3109/01443615.2014.935721. Epub 2014 Aug 25. PMID: 25153935.
28. **Functional magnetic stimulation for mixed urinary incontinence.**
But I, Faganelj M, Sostaric A.
J Urol. 2005 May;173(5):1644-6.

URGE URINARY INCONTINENCE [STUDIES LOOKING SPECIFICALLY AT URGE INCONTINENCE (UUI) AND OVERACTIVE BLADDER / OAB – SEE ABOVE FOR LESS SPECIFIC STUDIES ON UI INCLUDING, BUT NOT LIMITED TO UUI]

1. **The Impact of Extracorporeal Magnetic Stimulation as Addition to Mirabegron in Overactive Bladder Treatment in Women: A Single-Centre Randomized Sham-Controlled Study.**
Bele U, Serdinšek T, Homšak E, But I.
Journal of Clinical Medicine. 2024; 13(3):916. <https://doi.org/10.3390/jcm13030916>
2. **Magnetic stimulation in the treatment of female urgency urinary incontinence: a systematic review.**
Antić A, Pavčnik M, Lukanović A, Matjašič M, Lukanović D.
Int Urogynecol J. 2023;34(8):1669-1676. doi:10.1007/s00192-023-05492-7

3. Flat Magnetic Stimulation for Urge Urinary Incontinence.

Barba M, Cola A, Rezzan G, et al.

Medicina (Kaunas). 2023; 59(11):1999. Published 2023 Nov 14. doi:10.3390/medicina59111999

4. The Clinical Study on Short-Term Efficacy of Pelvic Magnetic Stimulation Combined with Pelvic Muscle Biofeedback on Female Idiopathic Overactive Bladder.

Xiaofang L, Fang L, Shuang L, Zongjie LU, Quanjiang HE, Yan MU, Qiao P.

J Womens Health Dev. 2023;6(1):31-35. doi:10.26502/fjwhd.2644-288400105

5. Multicenter, randomized, sham-controlled study on the efficacy of magnetic stimulation for women with urgency urinary incontinence.

Yamanishi T, Homma Y, Nishizawa O, Yasuda K, Yokoyama O; SMN-X Study Group.

Int J Urol. 2014 Apr;21(4):395-400. doi: 10.1111/iju.12289.

FAECAL INCONTINENCE

1. Effects of extracorporeal magnetic stimulation in fecal incontinence

Brusciano L, Gambardella C, Gualitieri G, Terracciano G, Tolone S, Schiano di Visconte M, Grossi U, del Genio G, Docimo L.

Open Med. 2020; 15:57-64. <https://doi.org/10.1515/med-2020-0009>

2. The Effect of Magnetic Stimulation of Pelvic Floor on Treating Postpartum Fecal Incontinence.

Sabbour A, Shafik A.

Bull. Fac. Ph. Th. Cairo Univ. 2009 July; 14(2):155-164

3. A Pilot Study of Extracorporeal Magnetic Stimulation of the Pelvic Floor for the Treatment of Women with Fecal Incontinence and Underactive Pelvic Floor Muscles.

Shobeiri SA, Chesson RR, West EC, Shott S, Hoyte L Pelvic

Medicine & Surgery. 2007 Feb; 13(1):19-26

PROLAPSE

1. Effects of Extracorporeal Magnetic Wave Pelvic Floor Therapy Combined with PFMT on Pelvic Floor Muscle Strength and Pelvic Organ Prolapse in Patients with Postpartum Pelvic Floor Dysfunction: A Prospective Randomized Trial.

Xu, J., Shi, Z., & Chen, Y.

Clinical and Experimental Obstetrics & Gynecology, 2023, 50(7)

2. A Qualitative and Quantitative Study to Evaluate the Effectiveness and Safety of Magnetic Stimulation in Women with Urinary Incontinence Symptoms and Pelvic Floor Disorders.

Filippini, M., Biordi, N., Curcio, A., Comito, A., Pennati, B. M., & Farinelli, M.

Medicina (Kaunas, Lithuania), 2023, 59(5), 879.

3. HIFEM procedure for Treatment of Persistent Urinary Incontinence Post-Pelvic Organ Prolapse and Anti-Incontinence Surgery.

Singhal D, Gopal M

J Women's Health Care, 2023. 70112(12)

4. Efficacy of pelvic floor magnetic stimulation combined with electrical stimulation on postpartum pelvic organ prolapse: a retrospective study.

Zhang L, Juan X, Tang, J.

Pelviperrineology. 2020;39(1):18-23

PAIN CONDITIONS

1. **Acute exposure to high-induction electromagnetic field affects activity of model peripheral sensory neurons**
Prucha J, Krusek J, Dittert I, Sinica V, Kadkova A, Vlachova V
J Cell Mol Med. 2018 Feb;22(2):1355-1362.
2. **Repetitive Peripheral Magnetic Stimulation as Pain Management Solution in Musculoskeletal and Neurological Disorders – A Pilot Study**
Zarkovic D, Kazalakova K
International Journal of Physiotherapy, 2016, 3(6), p. 671–675

BACK PAIN [E.G. LOWER BACK PAIN; NEUROPATHIC PAIN]

1. **Effect of Repetitive Peripheral Magnetic Stimulation on Patients With Low Back Pain: A Meta-analysis of Randomized Controlled Trials.**
Diao Y, Pan J, Xie Y, Liao M, Wu D, Liu H, Liao L.
Arch Phys Med Rehabil. 2023 Sep;104(9):1526-1538. doi: 10.1016/j.apmr.2023.03.016. Epub 2023 Apr 26. PMID: 37116558.
2. **Repetitive Peripheral Magnetic Stimulation (rPMS) in Subjects With Lumbar Radiculopathy: An Electromyography-guided Prospective, Randomized Study**
Savulescu S, Berteanu M, Filipescu I, Beiu C, Mihai M, Popa LG, Popescu SI, Balescu I, Bacalbasa N, Popescu M.
in vivo. 2021. 35: 623-627. doi:10.21873/invivo.12300
3. **The effect of repetitive peripheral magnetic stimulation on insomnia improving and pain in patients with chronic low back pain**
Tammasse, J., Lawing L.T., Muis, A., Basri, M.I Bintang, A, K.,
Medicina Clínica Práctica, 2021, Volume 4, Supplement 1,
4. **Effect of pulsed electromagnetic field on nonspecific low back pain patients: a randomized controlled trial.**
Elshawi AM, Hamada HA, Mosaad D, Ragab IMA, Koura GM, Alrawaili SM.
Braz J Phys Ther. 2019; 23(3):244-249. doi: 10.1016/j.bjpt.2018.08.004.
5. **Effects of Repetitive Peripheral Magnetic Stimulation on Patients With Acute Low Back Pain: A Pilot Study.**
Lim Y, Song M, Choi E, Lee JW.
Ann Rehabil Med 2018;42(2):229-238 pISSN: 2234-0645
6. **Repetitive peripheral magnetic neurostimulation of multifidus muscles combined with motor training influences spine motor control and chronic low back pain**
Massé-Alarie H, Beaulieu LD, Preuss R, Schneider C.
Clin Neurophysiol. 2017 Mar;128(3):442-453
8. **The Effectiveness of the Functional Magnetic Stimulation Therapy in Treating Sciatica Syndrome**
Radakovic T & Radakovic N
Open Journal of Therapy and Rehabilitation, 2015, 3, 63-69
*SciRes.*2015. August. Published Online. <http://www.scirp.org/journal/ojtr>
7. **Randomized, Placebo-Controlled Trial of Repetitive Spinal Magnetic Stimulation in Lumbosacral Spondylotic Pain.**
Lo YL, Fook-Chong S, Huerto AP, George J.
Pain Medicine 2011; 12: 1041–1045.

9. Therapeutic effects of peripheral repetitive magnetic stimulation on myofascial pain syndrome

Smania N, Corato E, Fiaschi A, Pietropoli P, Aglioti SM, Tinazzi M.

Clin Neurophysiol. 2003 Feb;114(2):350-

OTHER PAIN CONDITIONS /TREATING HYPERTONICITY [E.G. PELVIC PAIN; DYSMENORRHEA]

1. Changes in Pelvic Floor Ultrasonographic Features after Flat Magnetic Stimulation in Women with Chronic Pelvic Pain and Levator Ani Muscle Hypertonicity.

Barba M, Cola A, De Vicari D, Costa C, La Greca G, Vigna A, Volontè S, Frigerio M, Terzoni S, Maruccia S.

Medicina. 2024; 60(3):374. <https://doi.org/10.3390/medicina60030374>

2. Efficacy of top flat magnetic stimulation for chronic pelvic pain in men: preliminary results.

Mondaini, N., Gacci, M., Cai, T. et al.

Int J Impot Res (2024). <https://doi.org/10.1038/s41443-023-00822-1>

3. Approach of Chronic Pelvic Pain with Top Flat Magnetic Stimulation

Salsi, B., Ganassi, G Lopopolo, G., Callarelli, S. Comito, A. Fusco, González Isaza, P.

Advances in Urology, vol. 2023, Article ID 9983301, 7 pages, 2023. <https://doi.org/10.1155/2023/9983301>

4. The Effect of Pelvic Floor Magnetic Stimulation in Women with Myofascial Pelvic Pain Syndrome: A Prospective Cohort Pilot Study.

Ding, T., Zhang S., Zhao, L. Wu, Y., Zhu X, Yin-feng Wang, Zhong, S, Zhen-wei Xie

Clin. Exp. bstet. Gynecol. 2023, 50(5), 100. <https://doi.org/10.31083/j.ceog5005100>

5. Efficacy of Magnetic Therapy in Pain Reduction in Patients with Chronic Pelvic Pain: A Systematic Review.

de Pedro Negri AM, Ruiz Prieto MJ, Díaz-Mohedo E, Martín-Valero R. *Int J Environ*

Res Public Health. 2022;19(10):5824. Published 2022 May 10. doi:10.3390/ijerph19105824

6. Treatment of Pelvic Floor Hypertonic Disorders with top Flat Magnetic Stimulation in Women with Vestibulodynia: A Pilot Study

Biondo, A, Murina, F, Fusco, I.

Journal of Women's Health and Development 5 (2022): 175-184

7. Effect of Pulsed Electro Magnetic Field versus Transcutaneous Electrical Nerve Stimulation on Menstrual Distress of Primary Dysmenorrhea.

KHADIGA S. ABD ELAZIZ, REHAM E. MOHAMMED K. S. A. E. P, & ALAA S. MOHAMED H. A. H. K. M.

Cairo University, 2022; 90(6), 681-688. doi: 10.21608/mjcu.2022.253117

8. Effect of Pulsed Electromagnetic Field Versus Aerobic Exercise on Primary Dysmenorrhea.

Awad MA; Elbandrawy AM, Gabr AA, Hamid AHAE.

Med. J. Cairo Univ., Vol. 88, No. 5, December: 2165-2175, 2020

9. Efficacy of pulsed electromagnetic wave versus low-level laser therapy in treatment of primary dysmenorrhea: a randomized trial.

Abd El Fatah Mohamed,

Bull Fac Phys Ther 22, 53–58 (2017) https://doi.org/10.4103/bfpt.bfpt_69_16

10. Can Extracorporeal Magnetic Innervation Be a Treatment Modality for Primary Dysmenorrhea.

Serpil Aydoğmus, H. Levent Keskin, Huseyin Aydoğmus, Emine Celen, Gulin Yegin Ackay, A. Akin Sivaslioglu, A. Filiz Avşar.

Gynecol Obstet Invest 1 June 2014; 77 (4): 250 254. <https://doi.org/10.1159/000360906>

11. Electrochemical therapy of pelvic pain: effects of pulsed electromagnetic fields (PEMF) on tissue trauma.

Jorgensen WA, Frome BM, Wallach C

Eur J Surg Suppl. 1994;(574):83-6.

POSTNATAL

1. Effects of Extracorporeal Magnetic Wave Pelvic Floor Therapy Combined with PFMT on Pelvic Floor Muscle Strength and Pelvic Organ Prolapse in Patients with Postpartum Pelvic Floor Dysfunction: A Prospective Randomized Trial.

Xu, J., Shi, Z., & Chen, Y.

Clinical and Experimental Obstetrics & Gynecology, 2023. 50(7)

2. Electromyographic evaluation of the Pelvic muscles Activity after high-intensity focused electromagnetic Procedure and electrical stimulation in women with pelvic floor dysfunction

Silantyeva E, Zarkovic D, Soldatskaia R, Astafeva E, Mekan O.

Sex Med. 2020 Jun;8(2):282-289.doi: 10.1016/j.esxm.2020.01.004. Epub 2020 Mar 4.

3. A Comparative Study on the Effects of High-Intensity Focused Electromagnetic Technology and Electrostimulation for the Treatment of Pelvic Floor Muscles and Urinary Incontinence in Parous Women: Analysis of Posttreatment Data

Silantyeva E, Zarkovic D, Astafeva E, Soldatskaia R, Orazov M, Belkovskaya M, Kurtser M.

Female Pelvic Med Reconstr Surg. 2020 Jan 25.

doi: 10.1097/SPV.0000000000000807. Online ahead of print

4. Efficacy of pelvic floor magnetic stimulation combined with electrical stimulation on postpartum pelvic organ prolapse: a retrospective study.

Zhang L, Juan X, Tang, J.

Pelviperroneology. 2020;39(1):18-23

5. The Effect of Magnetic Stimulation of Pelvic Floor on Treating Postpartum Fecal Incontinence.

Sabbour A, Shafik A.

Bull. Fac. Ph. Th. Cairo Univ. 2009 July; 14(2):155-164

SEXUAL FUNCTION [MALE: ERECTILE DYSFUNCTION]

1. Novel emerging therapy for erectile dysfunction: efficacy and safety of flat magnetic stimulation.

Galimberti, D., Echague, A.V., Ko, E.A., Pieri, L., Comito, A., Fusco, I. and Zingoni, T.,

Archivio Italiano di Urologia e Andrologia. 2024.

2. The use of Functional Magnetic Stimulation in the Treatment of Erectile Dysfunction.

Abd el-rahman, H., Ahmed, M., & Bassyouni., H.

Minia Journal of Medical Research. 2020 DOI:10.21608/mjmr.2022.220310

3. An initial study on the effect of functional electrical stimulation in erectile dysfunction: a randomized controlled trial

Cristiane Carboni, Alexandre Fornari, Karoline C. Bragante, Marcio A. Averbek, Patrícia Vianna da Rosa & Rodrigo Della Mea Plentz

International Journal of Impotence Research 30,97-101(2018)

4. Impulse Magnetic-Field Therapy for Erectile Dysfunction: A Double-Blind, Placebo- Controlled Study

Pelka R, Jaenicke C, Gruenwald J
dv Ther. 2002 Jan-Feb;19(1):53-60.

5. Magnetic stimulation of the cavernous nerve for the treatment of erectile dysfunction in humans.

Shafik A, el-Sibai O, Shafik AA
International Journal of Impotence Research. 2000 Jun;12(3):137-41

SEXUAL FUNCTION [FEMALE]

1. Prospective Multi-Center Study on Long-term Effectiveness of HIFEM for procedure for Treatment for Urinary Incontinence and Female Sexual Dysfunction.

Evans KL, Berenholz J, Samuels JB, Pezzella A, DeLucia CA
J Women's Health Care, 2023, 12(2):625

2. Pulsed Magnetic Stimulation for Stress Urinary Incontinence and Its Impact on Sexuality and Health.

González-Isaza P, Sánchez-Borrego R, Lugo Salcedo F, Rodríguez N, Vélez Rizo D, Fusco I, Callarelli S.
Medicina. 2022; 58(12):1721. <https://doi.org/10.3390/medicina58121721>

3. Efficacy of optimized pelvic floor training of YUN combined with pelvic floor magnetic stimulation on female moderate stress urinary incontinence and sexual function: a retrospective cohort study.

Wang Y, Shi C, Zhou D, Yu W, Jiao W, Shi G.
Transl Androl Urol. 2022 Apr;11(4):554-560. doi: 10.21037/tau-22-222. PMID: 35558267; PMCID: PMC9085924

4. Treatment of Pelvic Floor Hypertonic Disorders with top Flat Magnetic Stimulation in Women with Vestibulodynia: A Pilot Study

Andrea Biondo, Filippo Murina, Irene Fusco.
Journal of Women's Health and Development 5 (2022): 175-184

5. Safety and Efficacy of a Non-Invasive High-Intensity Focused Electromagnetic Field (HIFEM) Device for Treatment of Urinary Incontinence and Enhancement of Quality of Life.

Samuels J.B, Pezzella A, Berenholz J, Alinsod, R.
Lasers Surg Med. 2019 Nov;51(9):760-766. doi: 10.1002/lsm.23106.

6. Effect of pulsed magnetic stimulation on sexual function in couples with female stress urinary incontinence partners

Lim R, Liong ML, Lau YK, Leong WS, Khan, NAKK, Yuen KH.
Journal of Sex & Marital Therapy, 2017 July; DOI: 10.1080/0092623X.2017.1348417

PROSTATE [BENIGN PROSTATIC HYPERPLASIA; PROSTATECTOMY; CHRONIC PROSTATITIS]

BENIGN PROSTATIC HYPERPLASIA

1. Possible Applications of Electromagnetic Fields in the Treatment of Symptoms Related to Benign Prostatic Hyperplasia.

Brardi S, Biandolino P, Giovannelli V, Belba A, Ponchietti R, Cevenini G.
Am J Urol Res. 2020 April;5(1): 006-010.

2. Therapeutic use of pulsed electromagnetic field therapy reduces prostate volume and lower urinary tract symptoms in benign prostatic hyperplasia.

Tenuta M, Tarsitano MG, Mazzotta P et al.

Andrology. 2020; 8:1076-1085.

3. Pulsed electromagnetic field with or without exercise therapy in the treatment of benign prostatic hyperplasia.

Elgohary HM & Tantawy SA.

J. Phys. Ther. Sci. 2017; 29: 1305–1310

4. Effect of Pulsed Electromagnetic Field Therapy on Prostate Volume and Vascularity in the Treatment of Benign Prostatic Hyperplasia: A Pilot Study in a Canine Model.

Leoci R, Aiudi G, Silvestre F, Lissner E, Lacalandra GM.

The Prostate. 2014 June; 74:1132-1141. Doi: 10.1002/pros.22829

5. Effects of pulsed electromagnetic fields on benign prostate hyperplasia

Giannakopoulos XK, Giotis C, Karkabounas SCh, Verginadis II, Simos YV, Peschos D, Evangelou AM

Int Urol Nephrol. 2011 Dec;43(4):955-60

POST-PROSTATECTOMY:

1. Electrical stimulation versus extracorporeal magnetic innervation for urinary incontinence after radical prostatectomy

Terzoni S, Montanari E, Mora C, Ricci C, Destrebecq C.

Int J of Urol Nurs. 2013; Vol 7(3): 121–125. doi: 10.1111/ijun.12008

2. Comparative study of effects of extracorporeal magnetic innervation versus electrical stimulation for urinary incontinence after radical prostatectomy.

Yokoyama T, Nishiguchi J, Watanabe T, Nose H, Nozaki K, Fujita O, Inoue M, Kumon H.

Urology. 2004 Feb;63(2):264-7.

CHRONIC PROSTATITIS:

1. Efficacy of top flat magnetic stimulation for chronic pelvic pain in men: preliminary results.

Mondaini, N., Gacci, M., Cai, T. et al.

Int J Impot Res (2024). <https://doi.org/10.1038/s41443-023-00822-1>

2. Efficacy of Magnetic Therapy in Pain Reduction in Patients with Chronic Pelvic Pain: A Systematic Review.

de Pedro Negri AM, Ruiz Prieto MJ, Díaz-Mohedo E, Martín-Valero R.

Int J Environ Res Public Health. 2022; 19(10):5824. Published 2022 May 10. doi:10.3390/ijerph19105824

3. The Efficacy of Extracorporeal Magnetic Stimulation for Treatment of Chronic Prostatitis/Chronic Pelvic Pain Syndrome Patients Who Do Not Respond to Pharmacotherapy.

Kim TH, Han DH, Cho WJ, Lee HS, You HW, Park CM, Ryu D, Lee K.

UROLOGY. 2013; 82: 894–898.

OTHER - EFFECTIVENESS OF FMS TRAINING

- 1. Assessment of the Short-Term Effects after High-Inductive Electromagnetic Stimulation of Pelvic Floor Muscles: A Randomized, Sham-Controlled Study**
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