

Published papers using MagPro/MagVenture magnetic stimulators

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Based on MagVenture inhouse database weekly updated via PubMed and Google Scholar.

Publications using MagVenture stimulators

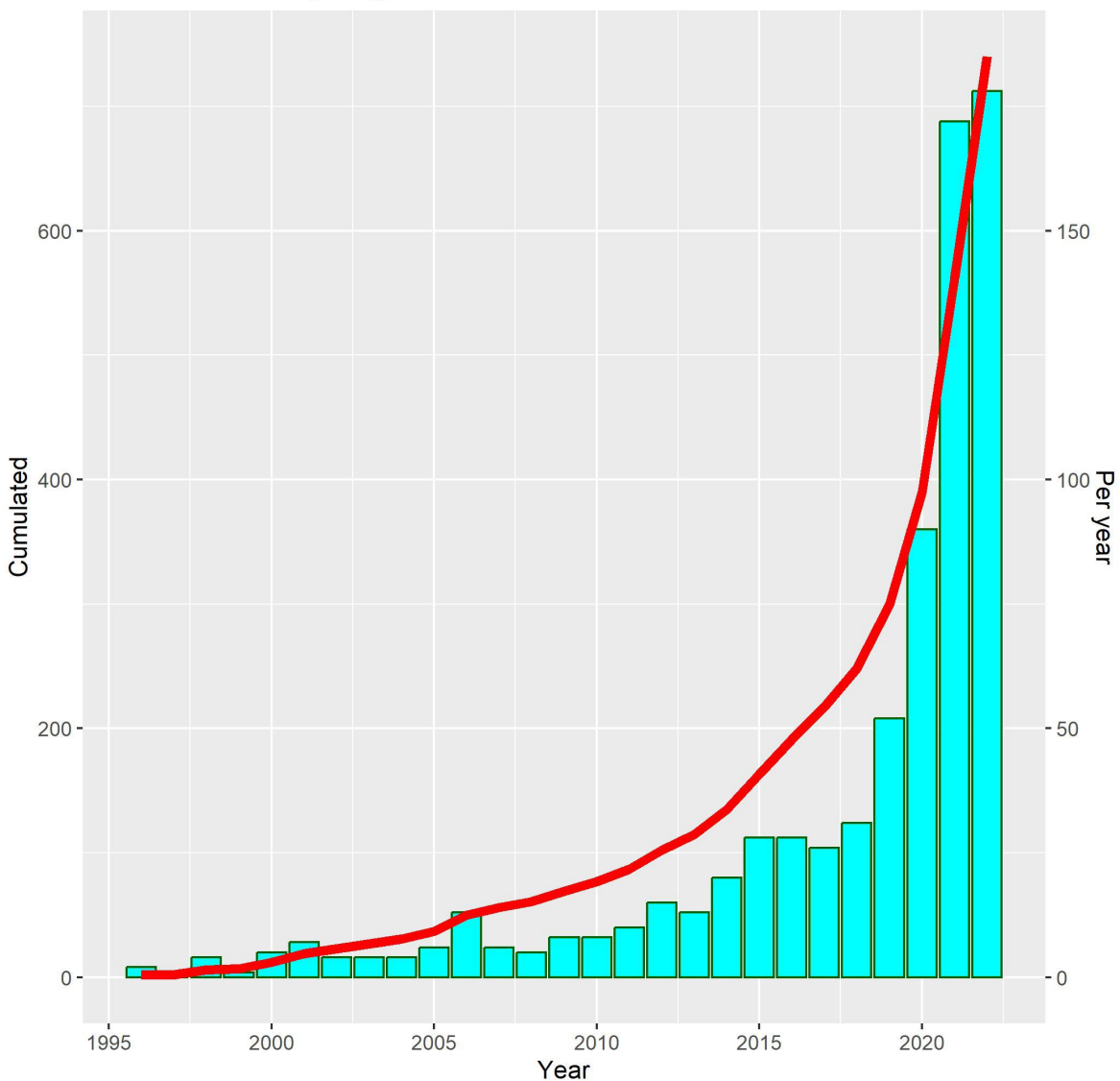


Figure 1 shows the number of publications per year (cyan bars) and cumulated publications using MagVenture stimulators and coils.

Number of new publications since last update.

The number of restarted publications from January 1st to August 7th are 129, and total number of publications is 909. Figure 1 shows the number of publications per year (blue bars) and cumulated number of publications from 1985 to 2022.

List of papers based on main topic

Accelerated treatments [1-22]
Addiction [23-39]
Attention Deficit Hyperactivity Disorder (ADHD) [40]
Alcohol Use Disorder [23, 24, 41]
Anxiety, Generalized [42-44]
Auditory hallucinations (positive symptoms in Schizophrenia) [45-47]
Autism spectrum Disorder [48-53]
Bipolar Disorder (not MST) [12, 44, 54-73]
Cocaine use disorder (CUD) [11, 25, 31, 33, 34, 36, 37, 74-76]
Co-morbid Anxiety [43, 44, 77-80]
Cool-40, rodent coil [81-93]
Coil characteristic [94-96]
Dementia cognitive impairment [71, 97-100]
Essential tremor [101]
Exercise effect [102-105]
Peripheral Magnetic stimulation [106-132]
Fibromyalgia [133-136]
Generalized Anxiety Disorder [42-44]
Heart rate guided TMS [4, 137-141]
Headache [142]
Insomnia [143, 144]
Location based on scalp coordinates [145-154]
Major depression disorder (MDD) [1, 3-6, 8, 11, 13, 14, 21, 42, 55, 59, 60, 62, 65, 68, 69, 77, 78, 80, 138, 155-230]
Magnetic Seizure Therapy (MST) [32, 140, 231-254]
Migraine [255-262]
Placebo-controlled studies [23, 35, 36, 38, 39, 56, 57, 71, 98, 115, 133, 137, 169, 170, 222, 262-312]
Vienna/7-channel MRI Pick-up coil [313-316]
Neuropathic Pain [33, 107, 117, 120, 122, 123, 134-136, 142, 184, 209, 289-291, 297, 299, 302, 303, 309, 317-339]
Peripheral treatment and Pain [107, 117, 120, 122, 123, 317, 319, 331, 340]
Neuropathic Pain [120, 122, 289, 290, 297, 299, 317, 319, 324-326, 328, 330, 332, 336]
Post Traumatic Stress Disorder (PTSD) [182, 287, 341, 342]
Obsessive-compulsive disorder (OCD) [22, 233, 307, 343-349]
Rehabilitation [103-105, 108, 110, 113, 121, 125, 127, 128, 330, 350-370]
Schizophrenia [45, 47, 231, 235, 239, 286, 293, 371-383]
Smoking Cessation [281]
Spinal cord injury [384]
Coil function [95, 96, 385]
Stroke [104, 109-111, 113, 121, 312, 353-364, 366, 386-407]
Tinnitus [88, 114, 159, 264, 278, 408-418]
Traumatic brain injury [419]
TMS-EEG [296, 382, 420-434]
TMS-MRI [185, 313-316, 429, 435-458]
Visual/spatial Neglect [312, 357, 396, 459]
Publications in 2023 [18-21, 38, 39, 41, 45, 53, 71-73, 81, 82, 100, 137, 218-224, 250-253, 261-274, 339, 341, 347, 348, 367-370, 382, 418, 420-425, 456, 460-530]

References

1. Sheen, J.Z., et al., *Cardiovascular biomarkers of response to accelerated low frequency repetitive transcranial magnetic stimulation in major depression*. Journal of Affective Disorders, 2022.
2. Price, A., et al., *Accelerated Resting-State fMRI-Guided Theta Burst Stimulation to the Right DLPFC for Late-Life Depression: A Pilot Study*, in *The American Journal of Geriatric Psychiatry*. 2022. p. S126-S128.
3. Miron, J.-P., et al., *Optimized repetitive transcranial magnetic stimulation techniques for the treatment of major depression: A proof of concept study*. Psychiatry Research, 2021. **298**: p. 113790.
4. Miron, J.-P., et al., *The relationship between pre-treatment heart rate variability and response to low-frequency accelerated repetitive transcranial magnetic stimulation in major depression*. Journal of Affective Disorders Reports, 2021: p. 100270.
5. Miron, J.-P., et al., *Evaluation of a 5 day accelerated 1 Hz repetitive transcranial magnetic stimulation protocol in major depression: a feasibility study*. Journal of Affective Disorders Reports, 2021.
6. Cole, E.J., et al., *Stanford Neuromodulation Therapy (SNT): A Double-Blind Randomized Controlled Trial*. Am J Psychiatry, 2022: p. appiajp202120101429.
7. Chen, L., et al., *Accelerated theta burst stimulation for the treatment of depression: A randomised controlled trial*. Brain Stimul, 2021. **14**(5): p. 1095-1105.
8. Blumberger, D.M., et al., *A randomized sham controlled comparison of once vs twice-daily intermittent theta burst stimulation in depression: A Canadian rTMS treatment and biomarker network in depression (CARTBIND) study*. Brain Stimul, 2021. **14**(6): p. 1447-1455.
9. Fitzgerald, P.B., et al., *A pilot investigation of an intensive theta burst stimulation protocol for patients with treatment resistant depression*. Brain Stimul, 2020. **13**(1): p. 137-144.
10. Cole, E.J., et al., *Stanford Accelerated Intelligent Neuromodulation Therapy for Treatment-Resistant Depression*. Am J Psychiatry, 2020. **177**(8): p. 716-726.
11. Steele, V.R., et al., *Accelerated Intermittent Theta-Burst Stimulation as a Treatment for Cocaine Use Disorder: A Proof-of-Concept Study*. Front Neurosci, 2019. **13**: p. 1147.
12. Jodoin, V.D., J.P. Miron, and P. Lesperance, *Safety and Efficacy of Accelerated Repetitive Transcranial Magnetic Stimulation Protocol in Elderly Depressed Unipolar and Bipolar Patients*. Am J Geriatr Psychiatry, 2019. **27**(5): p. 548-558.
13. Williams, N.R., et al., *High-dose spaced theta-burst TMS as a rapid-acting antidepressant in highly refractory depression*. Brain, 2018.
14. Schulze, L., et al., *Number of pulses or number of sessions? An open-label study of trajectories of improvement for once-vs. twice-daily dorsomedial prefrontal rTMS in major depression*. Brain Stimul, 2018. **11**(2): p. 327-336.
15. Fitzgerald, P.B., et al., *Accelerated repetitive transcranial magnetic stimulation in the treatment of depression*. Neuropsychopharmacology, 2018. **43**(7): p. 1565-1572.
16. El Arfani, A., et al., *Accelerated high-frequency repetitive transcranial magnetic stimulation enhances motor activity in rats*. Neuroscience, 2017. **347**: p. 103-110.

17. Marques, R.C., D. Marques, and L. Vieira, *Adapting Stanford Neuromodulation Therapy (SNT) for clinical feasibility: rationale and results of a small case series*. Journal of Affective Disorders Reports, 2022: p. 100449.
18. Wrightson, J.G., et al., *The effects of D-Cycloserine on corticospinal excitability after repeated spaced intermittent theta-burst transcranial magnetic stimulation: A randomized controlled trial in healthy individuals*. Neuropsychopharmacology, 2023.
19. Pettorruso, M., et al., *Comparing fast-acting interventions for treatment-resistant depression: An explorative study of accelerated HF-rTMS versus intranasal esketamine*. Brain Stimul, 2023.
20. Nakano, E., et al., *Accelerated intermittent theta burst transcranial magnetic stimulation is a safe and efficacious treatment for adolescents with depressive symptoms*, in *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*. 2023, Elsevier. p. 401.
21. Mitra, A., et al., *Targeted neurostimulation reverses a spatiotemporal biomarker of treatment-resistant depression*. Proceedings of the National Academy of Sciences, 2023. **120**(21): p. e2218958120.
22. Williams, N.R., et al., *Accelerated Neuromodulation Therapy for Obsessive-Compulsive Disorder*. Brain Stimul, 2021.
23. Petit, B., et al., *Efficacy of repetitive transcranial magnetic stimulation (rTMS) for reducing consumption in patients with alcohol use disorders (ALCOSTIM): study protocol for a randomized controlled trial*. Trials, 2022. **23**(1): p. 33.
24. McCalley, D.M., et al., *Medial prefrontal cortex theta burst stimulation improves treatment outcomes in Alcohol Use Disorder: a double-blind, sham-controlled neuroimaging study*. Biological Psychiatry Global Open Science, 2022.
25. Martinotti, G., et al., *Repetitive transcranial magnetic stimulation in treatment-seeking subjects with cocaine use disorder: A randomized, double-blind, sham-controlled trial*. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2022: p. 110513.
26. Marques, R.C., et al., *Left frontal pole repetitive transcranial magnetic stimulation reduces cigarette cue-reactivity in correlation with verbal memory performance*. Drug and Alcohol Dependence, 2022: p. 109450.
27. Rotolo, M.C., et al., *Hair Testing for Classic Drugs of Abuse to Monitor Cocaine Use Disorder in Patients Following Transcranial Magnetic Stimulation Protocol Treatment*. Biology, 2021. **10**(5).
28. Lolli, F., et al., *A randomised, double-blind, sham-controlled study of left prefrontal cortex 15 Hz repetitive transcranial magnetic stimulation in cocaine consumption and craving*. PLoS One, 2021. **16**(11): p. e0259860.
29. Garza-Villarreal, E.A., et al., *Clinical and functional connectivity outcomes of 5-Hz repeated transcranial magnetic stimulation as an add-on treatment in cocaine use disorder: a double-blind randomized controlled trial*. 2021.
30. Cuppone, D., et al., *The role of repetitive transcranial magnetic stimulation (rTMS) in the treatment of behavioral addictions: Two case reports and review of the literature*. J Behav Addict, 2021. **10**(2): p. 361-370.

31. Madeo, G., et al., *Long-Term Outcome of Repetitive Transcranial Magnetic Stimulation in a Large Cohort of Patients With Cocaine-Use Disorder: An Observational Study*. Front Psychiatry, 2020. **11**: p. 158.
32. Hill, A.T., et al., *Resting-state electroencephalographic functional network alterations in major depressive disorder following magnetic seizure therapy*. Prog Neuropsychopharmacol Biol Psychiatry, 2020: p. 110082.
33. Scarpino, M., et al., *Efficacy of high-frequency (15Hz) repetitive transcranial magnetic stimulation (rTMS) of the left premotor cortex/dorsolateral prefrontal cortex in decreasing cocaine intake (the MagneTox study): A study protocol for a randomized placebo-controlled pilot trial*. Neurophysiol Clin, 2019. **49**(1): p. 1-9.
34. Pettorruso, M., et al., *rTMS Reduces Psychopathological Burden and Cocaine Consumption in Treatment-Seeking Subjects With Cocaine Use Disorder: An Open Label, Feasibility Study*. Front Psychiatry, 2019. **10**: p. 621.
35. Kearney-Ramos, T.E., et al., *State-Dependent Effects of Ventromedial Prefrontal Cortex Continuous Thetaburst Stimulation on Cocaine Cue Reactivity in Chronic Cocaine Users*. Front Psychiatry, 2019. **10**: p. 317.
36. Kearney-Ramos, T.E., et al., *Transdiagnostic Effects of Ventromedial Prefrontal Cortex Transcranial Magnetic Stimulation on Cue Reactivity*. Biol Psychiatry Cogn Neurosci Neuroimaging, 2018. **3**(7): p. 599-609.
37. Terraneo, A., et al., *Transcranial magnetic stimulation of dorsolateral prefrontal cortex reduces cocaine use: A pilot study*. Eur Neuropsychopharmacol, 2016. **26**(1): p. 37-44.
38. Upton, S., et al., *Right inferior frontal gyrus theta-burst stimulation reduces smoking behaviors and strengthens fronto-striatal-limbic resting-state functional connectivity: a randomized crossover trial*. Front Psychiatry, 2023. **14**: p. 1166912.
39. Upton, S., et al., *Right inferior frontal gyrus theta-burst stimulation reduces smoking behaviors and strengthens fronto-striatal-limbic resting-state functional connectivity: a randomized crossover trial*. Frontiers in Psychiatry, 2023. **14**.
40. Nagy, N.A.S., et al., *The therapeutic role of repetitive transcranial magnetic stimulation in children with attention deficit/hyperactivity disorder in Egypt a randomized sham controlled clinical trial*. Middle East Current Psychiatry, 2022. **29**(1): p. 55.
41. Quoilin, C., et al., *Exploring the links between gut microbiota and excitatory and inhibitory brain processes in alcohol use disorder: A TMS study*. Neuropharmacology, 2023. **225**: p. 109384.
42. Bolu, A., et al., *Ten years' data of Transcranial Magnetic Stimulation (TMS): A naturalistic, observational study outcome in clinical practice*. Psychiatry Res, 2021. **301**: p. 113986.
43. Zhang, T., et al., *Add-on rTMS for the acute treatment of depressive symptoms is probably more effective in adolescents than in adults: Evidence from real-world clinical practice*. Brain Stimul, 2019. **12**(1): p. 103-109.
44. Griffiths, C.d.S., K.; De Vai, R.; O'Neill-Kerr, A., *Repetitive Transcranial Magnetic Stimulation (rTMS) in Treatment Resistant Depression: Retrospective Data Analysis from Clinical Practice*. Open Journal of Depression, 2019. **8**: p. 16-28.
45. Brunelin, J., F. Galvao, and M. Mondino, *Twice daily low frequency rTMS for treatment-resistant auditory hallucinations*. International Journal of Clinical and Health Psychology, 2023. **23**(1): p. 100344.

46. Tyagi, P., et al., *“Efficacy of intensive bilateral Temporo-Parietal Continuous theta-burst Stimulation for Auditory Verbal hallucinations (TPC-SAVE) in schizophrenia: A randomized sham-controlled trial”* ☆. Asian Journal of Psychiatry, 2022. **74**: p. 103176.
47. Dollfus, S., et al., *High-Frequency Neuronavigated rTMS in Auditory Verbal Hallucinations: A Pilot Double-Blind Controlled Study in Patients With Schizophrenia*. Schizophr Bull, 2018. **44**(3): p. 505-514.
48. Desarkar, P., et al., *Assessing and stabilizing atypical plasticity in autism spectrum disorder using rTMS: Results from a proof-of-principle study*. Clin Neurophysiol, 2022. **141**: p. 109-118.
49. Jannati, A., et al., *Modulation of motor cortical excitability by continuous theta-burst stimulation in adults with autism spectrum disorder*. Clinical Neurophysiology, 2021. **132**(7): p. 1647-1662.
50. Ameis, S.H., et al., *Treatment of Executive Function Deficits in autism spectrum disorder with repetitive transcranial magnetic stimulation: A double-blind, sham-controlled, pilot trial*. Brain Stimul, 2020. **13**(3): p. 539-547.
51. Abujadi, C., et al., *Intermittent theta-burst transcranial magnetic stimulation for autism spectrum disorder: an open-label pilot study*. Braz J Psychiatry, 2018. **40**(3): p. 309-311.
52. Ezedinma, U., P. Swierkowski, and S. Fjaagesund, *Outcomes from Individual Alpha Frequency Guided Repetitive Transcranial Magnetic Stimulation in Children with Autism Spectrum Disorder – A Retrospective Chart Review*. Child Psychiatry & Human Development, 2022.
53. Hallajian, A.-H., et al., *Enhancing Implicit Mentalizing in Autism Spectrum Disorder with Theta-burst stimulation of the Right Temporoparietal Junction: A Randomized Sham-controlled Double-blind Crossover Study*. Research Square, 2023.
54. Gama-Chonlon, L., J.M. Scanlan, and R.M. Allen, *Could Bipolar Depressed Patients Respond Better to rTMS than Unipolar Depressed Patients? A naturalistic, observational study*. Psychiatry Research, 2022: p. 114545.
55. Tavares, D.F., et al., *Treatment of mixed depression with theta-burst stimulation (TBS): results from a double-blind, randomized, sham-controlled clinical trial*. Neuropsychopharmacology, 2021.
56. McGirr, A., et al., *Efficacy of Active vs Sham Intermittent Theta Burst Transcranial Magnetic Stimulation for Patients With Bipolar Depression: A Randomized Clinical Trial*. JAMA Netw Open, 2021. **4**(3): p. e210963.
57. Diederichs, C., et al., *Intermittent Theta-Burst Stimulation Transcranial Magnetic Stimulation Increases GABA in the Medial Prefrontal Cortex: A Preliminary Sham-Controlled Magnetic Resonance Spectroscopy Study in Acute Bipolar Depression*. Front Psychiatry, 2021. **12**: p. 665402.
58. Kaster, T.S., et al., *Treatment-emergent mania with psychosis in bipolar depression with left intermittent theta-burst rTMS*. Brain Stimul, 2020. **13**(3): p. 705-706.
59. Kaster, T.S., et al., *Depressive symptom trajectories associated with standard and accelerated rTMS*. Brain Stimul, 2020. **13**(3): p. 850-857.
60. Davila, M.C., B. Ely, and A.M. Manzardo, *Repetitive transcranial magnetic stimulation (rTMS) using different TMS instruments for major depressive disorder at a suburban tertiary clinic*. Mental Illness, 2019. **11**(7947): p. 8.

61. Bulteau, S., et al., *Twice-daily neuronavigated intermittent theta burst stimulation for bipolar depression: A Randomized Sham-Controlled Pilot Study*. *Neurophysiol Clin*, 2019. **49**(5): p. 371-375.
62. Lebiecka, K., et al., *Complexity Analysis of EEG Data in Persons With Depression Subjected to Transcranial Magnetic Stimulation*. *Front Physiol*, 2018. **9**: p. 1385.
63. Rachid, F., C. Moeglin, and O. Sentissi, *Repetitive Transcranial Magnetic Stimulation (5 and 10 Hz) With Modified Parameters in the Treatment of Resistant Unipolar and Bipolar Depression in a Private Practice Setting*. *J Psychiatr Pract*, 2017. **23**(2): p. 92-100.
64. Fitzgerald, P.B., et al., *A negative double-blind controlled trial of sequential bilateral rTMS in the treatment of bipolar depression*. *J Affect Disord*, 2016. **198**: p. 158-62.
65. Bakker, N., et al., *rTMS of the dorsomedial prefrontal cortex for major depression: safety, tolerability, effectiveness, and outcome predictors for 10 Hz versus intermittent theta-burst stimulation*. *Brain Stimul*, 2015. **8**(2): p. 208-15.
66. Beynel, L., et al., *What saccadic eye movements tell us about TMS-induced neuromodulation of the DLPFC and mood changes: a pilot study in bipolar disorders*. *Front Integr Neurosci*, 2014. **8**: p. 65.
67. Connolly, K.R., et al., *Effectiveness of transcranial magnetic stimulation in clinical practice post-FDA approval in the United States: results observed with the first 100 consecutive cases of depression at an academic medical center*. *J Clin Psychiatry*, 2012. **73**(4): p. e567-73.
68. Brakemeier, E.L., et al., *Patterns of response to repetitive transcranial magnetic stimulation (rTMS) in major depression: replication study in drug-free patients*. *J Affect Disord*, 2008. **108**(1-2): p. 59-70.
69. Fitzgerald, P.B., et al., *A randomized trial of low-frequency right-prefrontal-cortex transcranial magnetic stimulation as augmentation in treatment-resistant major depression*. *Int J Neuropsychopharmacol*, 2006. **9**(6): p. 655-66.
70. Koutsomitros, T., et al., *A Different rTMS Protocol for a Different Type of Depression: 20.000 rTMS Pulses for the Treatment of Bipolar Depression Type II*. *Journal of Clinical Medicine*, 2022. **11**(18): p. 5434.
71. Torres, I.J., et al., *Effects of intermittent theta-burst transcranial magnetic stimulation on cognition and hippocampal volumes in bipolar depression*. *Dialogues Clin Neurosci*, 2023. **25**(1): p. 24-32.
72. Shamanna, V., et al., *Transdiagnostic Investigation into the Relationship between Mirror Neuron System Activity, Echo-phenomena, and Theory of Mind in Major Psychoses*. *Asian Journal of Psychiatry*, 2023: p. 103504.
73. Ekman, C.J., et al., *Outcome of transcranial magnetic intermittent theta-burst stimulation in the treatment of depression - A Swedish register-based study*. *Journal of Affective Disorders*, 2023. **329**: p. 50-54.
74. Cardullo, S., et al., *A Retrospective Comparative Study in Patients With Cocaine Use Disorder Comorbid With Attention Deficit Hyperactivity Disorder Undergoing an rTMS Protocol Treatment*. *Front Psychiatry*, 2021. **12**: p. 659527.
75. Gomez Perez, L.J., et al., *Sleep quality improves during treatment with repetitive transcranial magnetic stimulation (rTMS) in patients with cocaine use disorder: a retrospective observational study*. *BMC Psychiatry*, 2020. **20**(1): p. 153.

76. Cardullo, S., et al., *Clinical Improvements in Comorbid Gambling/Cocaine Use Disorder (GD/CUD) Patients Undergoing Repetitive Transcranial Magnetic Stimulation (rTMS)*. J Clin Med, 2019. **8**(6).
77. Quinn, D.K., et al., *Right prefrontal intermittent theta-burst stimulation for major depressive disorder: A case series*. Brain Stimul, 2021. **14**(1): p. 97-99.
78. Trevizol, A.P., et al., *Effect of repetitive transcranial magnetic stimulation on anxiety symptoms in patients with major depression: An analysis from the THREE-D trial*. Depress Anxiety, 2021.
79. Griffiths, C., et al., *Impact of repetitive transcranial magnetic stimulation on generalized anxiety disorder in treatment-resistant depression*. Ann Clin Psychiatry, 2019. **31**(3): p. e2-e7.
80. Chen, L., et al., *Is rTMS effective for anxiety symptoms in major depressive disorder? An efficacy analysis comparing left-sided high-frequency, right-sided low-frequency, and sequential bilateral rTMS protocols*. Depress Anxiety, 2019. **36**(8): p. 723-731.
81. Ramírez-Rodríguez, G.B., et al., *Repetitive transcranial magnetic stimulation and fluoxetine reverse depressive-like behavior but with differential effects on Olig2-positive cells in chronically stressed mice*. Neuropharmacology, 2023. **236**: p. 109567.
82. Boato, F., et al., *Activation of MAP2K signaling by genetic engineering or HF-rTMS promotes corticospinal axon sprouting and functional regeneration*. Science Translational Medicine, 2023. **15**(677): p. eabq6885.
83. Zheng, Y., et al., *Nerve root magnetic stimulation improves locomotor function following spinal cord injury with electrophysiological improvements and cortical synaptic reconstruction*. Neural Regeneration Research, 2022. **17**(9): p. 2036-2042.
84. Zhang, T.R., et al., *Intermittent theta burst transcranial magnetic stimulation induces hippocampal mossy fiber plasticity in male but not female mice*. European Journal of Neuroscience, 2022. **n/a**(n/a).
85. Sorkhi, S., et al., *Transpelvic Magnetic Stimulation Enhances Penile Microvascular Perfusion in a Rat Model: A Novel Interventional Strategy to Prevent Penile Fibrosis after Cavernosal Nerve Injury*. World J Mens Health, 2022. **40**: p. 0.
86. Ramírez-Rodríguez, G.B., D.M.-S. Juan, and J.J. González-Olvera, *5 Hz of repetitive transcranial magnetic stimulation improves cognition and induces modifications in hippocampal neurogenesis in adult female Swiss Webster mice*. Brain Research Bulletin, 2022. **186**: p. 91-105.
87. Hotta, N., M. Miyamoto, and K. Suzuki, *Lamotrigine and retigabine increase motor threshold in transcranial magnetic stimulation at the dose required to produce an antiepileptic effect against maximal electroshock-induced seizure in rats*. Neuroscience Letters, 2022. **771**: p. 136460.
88. Amat, F., et al., *Long-Term Effects of Repetitive Transcranial Magnetic Stimulation on Tinnitus in a Guinea Pig Model*. Brain Sciences, 2022. **12**(8).
89. Adeel, M., et al., *Motor Neuroplastic Effects of a Novel Paired Stimulation Technology in an Incomplete Spinal Cord Injury Animal Model*. International journal of molecular sciences, 2022. **23**(16): p. 9447.

90. Zhang, T.R., et al., *Electroconvulsive Shock, but Not Transcranial Magnetic Stimulation, Transiently Elevates Cell Proliferation in the Adult Mouse Hippocampus*. *Cells*, 2021. **10**(8): p. 2090.
91. Legrand, M., et al., *Prefrontal cortex rTMS reverses behavioral impairments and differentially activates c-Fos in a mouse model of post-traumatic stress disorder*. *Brain Stimul*, 2018.
92. Heath, A., et al., *Medium- and high-intensity rTMS reduces psychomotor agitation with distinct neurobiologic mechanisms*. *Transl Psychiatry*, 2018. **8**(1): p. 126.
93. Parthoens, J., et al., *Performance Characterization of an Actively Cooled Repetitive Transcranial Magnetic Stimulation Coil for the Rat*. *Neuromodulation*, 2016. **19**(5): p. 459-68.
94. Koponen, L.M., et al., *Sound comparison of seven TMS coils at matched stimulation strength*. *Brain Stimul*, 2020. **13**(3): p. 873-880.
95. Drakaki, M., et al., *Database of 25 validated coil models for electric field simulations for TMS*. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*, 2022. **15**(3): p. 697-706.
96. Madsen, K.H., et al., *Transcranial Magnetic Stimulation: An Automated Procedure to Obtain Coil-specific Models for Field Calculations*. *Brain Stimul*, 2015. **8**(6): p. 1205-8.
97. Hoy, K.E., et al., *Investigating neurophysiological markers of impaired cognition in schizophrenia*. *Schizophrenia Research*, 2021. **233**: p. 34-43.
98. Taylor, J.L., et al., *The effects of repetitive transcranial magnetic stimulation in older adults with mild cognitive impairment: a protocol for a randomized, controlled three-arm trial*. *BMC Neurol*, 2019. **19**(1): p. 326.
99. Ma, Q., et al., *High Frequency Repetitive Transcranial Magnetic Stimulation Alleviates Cognitive Impairment and Modulates Hippocampal Synaptic Structural Plasticity in Aged Mice*. *Front Aging Neurosci*, 2019. **11**: p. 235.
100. Xu, B., et al., *Comparing single-target with dual-target rTMS for the treatment of post stroke cognitive impairment—clinical effects and neuroscientific insights: study protocol for a randomized controlled trial*. *Research Square*, 2023.
101. Badran, B.W., et al., *A Double-Blind, Sham-Controlled Pilot Trial of Pre-Supplementary Motor Area (Pre-SMA) 1 Hz rTMS to Treat Essential Tremor*. *Brain Stimul*, 2016. **9**(6): p. 945-947.
102. Andrews, S.C., et al., *Intensity Matters: High-intensity Interval Exercise Enhances Motor Cortex Plasticity More Than Moderate Exercise*. *Cereb Cortex*, 2020. **30**(1): p. 101-112.
103. Martinez, S.A., et al., *Multimodal cortical and subcortical exercise compared with treadmill training for spinal cord injury*. *PLoS One*, 2018. **13**(8): p. e0202130.
104. Abo, M., et al., *Randomized, multicenter, comparative study of NEURO versus CIMT in poststroke patients with upper limb hemiparesis: the NEURO-VERIFY Study*. *Int J Stroke*, 2014. **9**(5): p. 607-12.
105. Madariaga, V.B., et al., *Muscle training with repetitive magnetic stimulation of the quadriceps in severe COPD patients*. *Respir Med*, 2010. **104**(2): p. 237-45.
106. El Nahas, N., et al., *Peripheral magnetic theta burst stimulation to muscles can effectively reduce spasticity: a randomized controlled trial*. *Journal of NeuroEngineering and Rehabilitation*, 2022. **19**(1): p. 5.

107. Savulescu, S.E., et al., *Repetitive Peripheral Magnetic Stimulation (rPMS) in Subjects With Lumbar Radiculopathy: An Electromyography-guided Prospective, Randomized Study*. In Vivo, 2021. **35**(1): p. 623-627.
108. Nito, M., et al., *Repetitive Peripheral Magnetic Stimulation of Wrist Extensors Enhances Cortical Excitability and Motor Performance in Healthy Individuals*. Frontiers in Neuroscience, 2021. **15**(125).
109. Kinoshita, S., et al., *Repetitive peripheral magnetic stimulation combined with intensive physical therapy for gait disturbance after hemorrhagic stroke: an open-label case series*. International Journal of Rehabilitation Research, 2021.
110. Chen, X., et al., *Efficacy of functional magnetic stimulation in improving upper extremity function after stroke: a randomized, single-blind, controlled study*. J Int Med Res, 2020. **48**(6): p. 300060520927881.
111. Chen, S., et al., *Electroencephalography Mu Rhythm Changes and Decreased Spasticity After Repetitive Peripheral Magnetic Stimulation in Patients Following Stroke*. Frontiers in Neurology, 2020. **11**(1073).
112. Zschorlich, V.R., et al., *Repetitive Peripheral Magnetic Nerve Stimulation (rPMS) as Adjuvant Therapy Reduces Skeletal Muscle Reflex Activity*. Frontiers in Neurology, 2019. **10**(930).
113. Yang, C., et al., *Musculoskeletal Ultrasonography Assessment of Functional Magnetic Stimulation on the Effect of Glenohumeral Subluxation in Acute Poststroke Hemiplegic Patients*. Biomed Res Int, 2018. **2018**: p. 6085961.
114. Vielsmeier, V., et al., *A Pilot Study of Peripheral Muscle Magnetic Stimulation as Add-on Treatment to Repetitive Transcranial Magnetic Stimulation in Chronic Tinnitus*. Front Neurosci, 2018. **12**: p. 68.
115. Niu, T., et al., *A Proof-of-Concept Study of Transcutaneous Magnetic Spinal Cord Stimulation for Neurogenic Bladder*. Sci Rep, 2018. **8**(1): p. 12549.
116. Kumru, H., et al., *Modulation of motor cortex excitability by paired peripheral and transcranial magnetic stimulation*. Clin Neurophysiol, 2017. **128**(10): p. 2043-2047.
117. Savulescu, S.E., et al., *Peripheral Repetitive Magnetic Stimulation: A Novel Approach for Hand Rehabilitation in Carpal Tunnel Syndrome - A Pilot Study*. International Journal of Social Science and Humanity, 2016. **6**(8).
118. Momosaki, R., et al., *Influence of repetitive peripheral magnetic stimulation on neural plasticity in the motor cortex related to swallowing*. Int J Rehabil Res, 2016. **39**(3): p. 263-6.
119. Okudera, Y., et al., *The impact of high-frequency magnetic stimulation of peripheral nerves: muscle hardness, venous blood flow, and motor function of upper extremity in healthy subjects*. Biomedical Research, 2015. **36**(2): p. 81-87.
120. Leung, A., et al., *Effect of low frequency transcutaneous magnetic stimulation on sensory and motor transmission*. Bioelectromagnetics, 2015. **36**(6): p. 410-9.
121. Momosaki, R., et al., *Functional magnetic stimulation using a parabolic coil for dysphagia after stroke*. Neuromodulation, 2014. **17**(7): p. 637-41; discussion 641.
122. Leung, A., A. Fallah, and S. Shukla, *Transcutaneous magnetic stimulation (TMS) in alleviating post-traumatic peripheral neuropathic pain States: a case series*. Pain Med, 2014. **15**(7): p. 1196-9.

123. Lo, Y.L., et al., *A randomized, placebo-controlled trial of repetitive spinal magnetic stimulation in lumbosacral spondylotic pain*. Pain Medicine, 2011. **12**(7): p. 1041-1045.
124. Behrens, M., et al., *Repetitive Peripheral Magnetic Stimulation (15 Hz RPMS) of the Human Soleus Muscle did not Affect Spinal Excitability*. J Sports Sci Med, 2011. **10**(1): p. 39-44.
125. Tsai, P.Y., et al., *Efficacy of functional magnetic stimulation in neurogenic bowel dysfunction after spinal cord injury*. J Rehabil Med, 2009. **41**(1): p. 41-7.
126. Lin, V.W.H., et al., *Functional magnetic stimulation facilitates gastric emptying*. Archives of Physical Medicine and Rehabilitation, 2002. **83**(6): p. 806-810.
127. Lin, V.W., et al., *Functional magnetic stimulation of the colon in persons with spinal cord injury*. Arch Phys Med Rehabil, 2001. **82**(2): p. 167-73.
128. Lin, V.W., et al., *Functional magnetic stimulation for conditioning of expiratory muscles in patients with spinal cord injury*. Arch Phys Med Rehabil, 2001. **82**(2): p. 162-6.
129. Craggs, M., *Functional magnetic stimulation: a non-invasive tool in urology*. Urology News, 2001. **5**: p. 6-10.
130. Singh, H.S., et al., *Expiratory muscle activation by functional magnetic stimulation of thoracic and lumbar spinal nerves*. Crit Care Med, 1999. **27**: p. 5.
131. Lin, V.W., et al., *Functional Magnetic Stimulation for Restoring Cough in Patients with Tetraplegia*. Arch Phys Med Rehabil, 1998. **79**.
132. Lin, V.W., et al., *Functional magnetic stimulation of expiratory muscles - a noninvasive and new method for restoring cough*. J appl Physiol, 1998. **84**(4): p. 7.
133. Faerman, A., et al., *Modulation of a Stable Neurobehavioral Trait Using Repetitive Transcranial Magnetic Stimulation: A Preregistered Randomized Controlled Trial*. medRxiv, 2021: p. 2021.07.08.21260222.
134. Tanwar, S., et al., *Repetitive transcranial magnetic stimulation of the prefrontal cortex for fibromyalgia syndrome: a randomised controlled trial with 6-months follow up*. Adv Rheumatol, 2020. **60**(1): p. 34.
135. Fitzgibbon, B.M., et al., *Evidence for the improvement of fatigue in fibromyalgia: A 4-week left dorsolateral prefrontal cortex repetitive transcranial magnetic stimulation randomized-controlled trial*. Eur J Pain, 2018. **22**(7): p. 1255-1267.
136. Mhalla, A., et al., *Long-term maintenance of the analgesic effects of transcranial magnetic stimulation in fibromyalgia*. Pain, 2011. **152**(7): p. 1478-85.
137. Bengtsson, J., et al., *No effects on heart rate variability in depression after treatment with dorsomedial prefrontal intermittent theta burst stimulation*. Upsala Journal of Medical Sciences, 2023. **128**.
138. Onyilo, C.V., W.V. McCall, and P. Rosenquist, *Transcranial Magnetic Stimulation Therapy of Major Depressive Disorder Improves Heart Rate Variability*. The Journal of ECT, 2022. **38**(2): p. 138-140.
139. Poppa, T., et al., *Theta-burst stimulation and frontotemporal regulation of cardiovascular autonomic outputs: The role of state anxiety*. Int J Psychophysiol, 2020. **149**: p. 25-34.
140. Noda, Y., et al., *Vagally Mediated Heart Rate Variability Is Associated With Executive Function Changes in Patients With Treatment-Resistant Depression Following Magnetic Seizure Therapy*. Neuromodulation, 2020.
141. Kaur, M., et al., *Investigating high- and low-frequency neuro-cardiac-guided TMS for probing the frontal vagal pathway*. Brain Stimul, 2020. **13**(3): p. 931-938.

142. Vaninetti, M., et al., *fMRI findings in MTBI patients with headaches following rTMS*. Sci Rep, 2021. **11**(1): p. 9573.
143. Li, M., et al., *1Hz rTMS over left DLPFC rewired the coordination with hippocampus in insomnia patients: A pilot study*. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 2022. **15**(2): p. 437-440.
144. Shi, X., et al., *Electroencephalographic connectivity predicts clinical response to repetitive transcranial magnetic stimulation in patients with insomnia disorder*. Sleep Medicine, 2021. **88**: p. 171-179.
145. Fabregat-Sanjuan, A., R. Pamies-Vila, and V. Pascual-Rubio, *Evaluation of the Beam-F3 method for locating the F3 position from the 10-20 international system*. Brain Stimul, 2022. **15**(4): p. 1011-1012.
146. Mir-Moghtadaei, A., et al., *Validation of a 25% Nasion-Inion Heuristic for Locating the Dorsomedial Prefrontal Cortex for Repetitive Transcranial Magnetic Stimulation*. Brain Stimul, 2016. **9**(5): p. 793-795.
147. Mir-Moghtadaei, A., et al., *Concordance Between BeamF3 and MRI-neuronavigated Target Sites for Repetitive Transcranial Magnetic Stimulation of the Left Dorsolateral Prefrontal Cortex*. Brain Stimul, 2015. **8**(5): p. 965-73.
148. Mir-Moghtadaei, A., et al., *An assessment of the discrepancy between BeamF3 versus MRI-neuronavigated target sites for repetitive transcranial magnetic stimulation of the left dorsolateral prefrontal cortex in 100 patients*. Brain Stimulation, 2015. **8**(2): p. 338-339.
149. Kim, Y.K. and S.H. Shin, *Comparison of effects of transcranial magnetic stimulation on primary motor cortex and supplementary motor area in motor skill learning (randomized, cross over study)*. Front Hum Neurosci, 2014. **8**: p. 937.
150. Beam, W., et al., *An efficient and accurate new method for locating the F3 position for prefrontal TMS applications*. Brain Stimul, 2009. **2**(1): p. 50-4.
151. Mantovani, A., et al., *Repetitive transcranial magnetic stimulation (rTMS) in the treatment of obsessive-compulsive disorder (OCD) and Tourette's syndrome (TS)*. Int J Neuropsychopharmacol, 2006. **9**(1): p. 95-100.
152. Herwig, U., P. Satrapi, and C. Schonfeldt-Lecuona, *Using the international 10-20 EEG system for positioning of transcranial magnetic stimulation*. Brain Topogr, 2003. **16**(2): p. 95-9.
153. Herwig, U., et al., *Transcranial magnetic stimulation in therapy studies: examination of the reliability of "standard" coil positioning by neuronavigation*. Biol Psychiatry, 2001. **50**(1): p. 58-61.
154. Nauczyciel, C., et al., *Assessment of standard coil positioning in transcranial magnetic stimulation in depression*. Psychiatry Res, 2011. **186**(2-3): p. 232-8.
155. Yee, A., E. Pedersen, and M. Koo, *A case series of repetitive transcranial magnetic stimulation in the treatment of major depression during pregnancy*. Brain Stimul, 2022.
156. Stöhrmann, P., et al., *Effects of bilateral sequential theta-burst stimulation on functional connectivity in treatment-resistant depression: first results*. medRxiv, 2022.
157. Robertson, C. and A. Mortimer, *Quantitative EEG (qEEG) guided transcranial magnetic stimulation (TMS) treatment for depression and anxiety disorders: An open, observational cohort study of 210 patients*. J Affect Disord, 2022. **308**: p. 322-327.

158. Richard, M., et al., *Prolonged intermittent theta burst stimulation in the treatment of major depressive disorder: a case series*. Psychiatry Research, 2022: p. 114709.
159. Marder, K.G., et al., *Sequential Prefrontal and Temporoparietal Repetitive Transcranial Magnetic Stimulation (rTMS) for Treatment of Tinnitus With and Without Comorbid Depression: A Case Series and Systematic Review*. Frontiers in Neurology, 2022. **13**.
160. Guan, M., et al., *Altered Brain Function and Causal Connectivity Induced by Repetitive Transcranial Magnetic Stimulation Treatment for Major Depressive Disorder*. Front Neurosci, 2022. **16**: p. 855483.
161. Gordon, M.S., et al., *A randomized pilot study of Repetitive Transcranial Magnetic Stimulation for Adolescents with Major Depressive Disorder*. 2022.
162. Voetterl, H., et al., *Investigating EEG biomarkers of clinical response to low frequency rTMS in depression*. Journal of Affective Disorders Reports, 2021. **6**.
163. See, R.E., et al., *Assessment of multiple salivary biomarkers during repetitive transcranial magnetic stimulation (rTMS) treatment for major depression*. Psychiatry Research, 2021. **302**: p. 114053.
164. Plewnia, C., et al., *Treatment of major depressive disorder with bilateral theta burst stimulation: study protocol for a randomized, double-blind, placebo-controlled multicenter trial (TBS-D)*. Eur Arch Psychiatry Clin Neurosci, 2021. **271**(7): p. 1231-1243.
165. Lee, J.C., et al., *Subthreshold stimulation intensity is associated with greater clinical efficacy of intermittent theta-burst stimulation priming for Major Depressive Disorder*. Brain Stimulation, 2021. **14**(4): p. 1015-1021.
166. Hebel, T., et al., *Antidepressant effect of repetitive transcranial magnetic stimulation is not impaired by intake of lithium or antiepileptic drugs*. European Archives of Psychiatry and Clinical Neuroscience, 2021.
167. Feffer, K., et al., *Dorsomedial prefrontal rTMS for depression in borderline personality disorder: a pilot randomized crossover trial*. Journal of Affective Disorders, 2021.
168. Cavallero, F., et al., *Audio-Guided Mindfulness Meditation During Transcranial Magnetic Stimulation Sessions for the Treatment of Major Depressive Disorder: A Pilot Feasibility Study*. Front Psychol, 2021. **12**: p. 678911.
169. Armas-Castañeda, G., et al., *Two rTMS sessions per week: a practical approach for treating major depressive disorder*. NeuroReport, 2021. **32**(17): p. 1364-1369.
170. Zavorotnyy, M., et al., *Intermittent theta-burst stimulation moderates interaction between increment of N-Acetyl-Aspartate in anterior cingulate and improvement of unipolar depression*. Brain Stimul, 2020. **13**(4): p. 943-952.
171. Wu, W., et al., *An electroencephalographic signature predicts antidepressant response in major depression*. Nat Biotechnol, 2020.
172. Trevizol, A.P., et al., *Predictors of remission after repetitive transcranial magnetic stimulation for the treatment of major depressive disorder: An analysis from the randomised non-inferiority THREE-D trial*. EClinicalMedicine, 2020. **22**: p. 100349.
173. Lee, J.C., et al., *Strategies for augmentation of high-frequency left-sided repetitive transcranial magnetic stimulation treatment of major depressive disorder*. J Affect Disord, 2020. **277**: p. 964-969.

174. Ge, R., et al., *Functional connectivity of the anterior cingulate cortex predicts treatment outcome for rTMS in treatment-resistant depression at 3-month follow-up*. Brain Stimul, 2020. **13**(1): p. 206-214.
175. Dunlop, K., et al., *Dorsomedial prefrontal cortex repetitive transcranial magnetic stimulation for treatment-refractory major depressive disorder: A three-arm, blinded, randomized controlled trial*. Brain Stimul, 2020. **13**(2): p. 337-340.
176. Dowling, N.L., et al., *Repetitive transcranial magnetic stimulation for major depression: A naturalistic observational study in an Australian private hospital*. Psychiatry Res, 2020. **291**: p. 113275.
177. Trevizol, A.P., et al., *Intermittent theta burst stimulation for major depression during pregnancy*. Brain Stimul, 2019. **12**(3): p. 772-774.
178. Miron, J.P., et al., *Safety, tolerability and effectiveness of a novel 20 Hz rTMS protocol targeting dorsomedial prefrontal cortex in major depression: An open-label case series*. Brain Stimul, 2019.
179. Kito, S., et al., *Effectiveness of high-frequency left prefrontal repetitive transcranial magnetic stimulation in patients with treatment-resistant depression: A randomized clinical trial of 37.5-minute vs 18.75-minute protocol*. Neuropsychopharmacol Rep, 2019.
180. Kaster, T.S., et al., *Trajectories of Response to Dorsolateral Prefrontal rTMS in Major Depression: A THREE-D Study*. Am J Psychiatry, 2019: p. appiajp201818091096.
181. Ge, R., et al., *Structural network integrity of the central executive network is associated with the therapeutic effect of rTMS in treatment resistant depression*. Prog Neuropsychopharmacol Biol Psychiatry, 2019. **92**: p. 217-225.
182. Yesavage, J.A., et al., *Effect of Repetitive Transcranial Magnetic Stimulation on Treatment-Resistant Major Depression in US Veterans: A Randomized Clinical Trial*. JAMA Psychiatry, 2018.
183. Feffer, K., et al., *1Hz rTMS of the right orbitofrontal cortex for major depression: Safety, tolerability and clinical outcomes*. Eur Neuropsychopharmacol, 2018. **28**(1): p. 109-117.
184. Blumberger, D.M., et al., *Effectiveness of theta burst versus high-frequency repetitive transcranial magnetic stimulation in patients with depression (THREE-D): a randomised non-inferiority trial*. Lancet, 2018. **391**(10131): p. 1683-1692.
185. Tik, M., et al., *Towards understanding rTMS mechanism of action: Stimulation of the DLPFC causes network-specific increase in functional connectivity*. Neuroimage, 2017. **162**: p. 289-296.
186. Mi, Z., et al., *Repetitive transcranial magnetic stimulation (rTMS) for treatment-resistant major depression (TRMD) Veteran patients: study protocol for a randomized controlled trial*. Trials, 2017. **18**(1): p. 409.
187. Ge, R., et al., *Abnormal functional connectivity within resting-state networks is related to rTMS-based therapy effects of treatment resistant depression: A pilot study*. J Affect Disord, 2017. **218**: p. 75-81.
188. Galletly, C.A., et al., *A Comparison of Right Unilateral and Sequential Bilateral Repetitive Transcranial Magnetic Stimulation for Major Depression: A Naturalistic Clinical Australian Study*. J ECT, 2017. **33**(1): p. 58-62.

189. Fettes, P., et al., *Neural correlates of successful orbitofrontal 1 Hz rTMS following unsuccessful dorsolateral and dorsomedial prefrontal rTMS in major depression: A case report*. Brain Stimul, 2017. **10**(1): p. 165-167.
190. Feffer, K., et al., *Early symptom improvement at 10 sessions as a predictor of rTMS treatment outcome in major depression*. Brain Stimul, 2017: p. 1-9.
191. Bulteau, S., et al., *Efficacy of intermittent Theta Burst Stimulation (iTBS) and 10-Hz high-frequency repetitive transcranial magnetic stimulation (rTMS) in treatment-resistant unipolar depression: study protocol for a randomised controlled trial*. Trials, 2017. **18**(1): p. 17.
192. Schulze, L., et al., *Cognitive safety of dorsomedial prefrontal repetitive transcranial magnetic stimulation in major depression*. Eur Neuropsychopharmacol, 2016.
193. Dunlop, K., et al., *Reductions in Cortico-Striatal Hyperconnectivity Accompany Successful Treatment of Obsessive-Compulsive Disorder with Dorsomedial Prefrontal rTMS*. Neuropsychopharmacology, 2016. **41**(5): p. 1395-403.
194. Prasser, J., et al., *Bilateral prefrontal rTMS and theta burst TMS as an add-on treatment for depression: a randomized placebo controlled trial*. World J Biol Psychiatry, 2015. **16**(1): p. 57-65.
195. Kreuzer, P.M., et al., *The ACDC pilot trial: targeting the anterior cingulate by double cone coil rTMS for the treatment of depression*. Brain Stimul, 2015. **8**(2): p. 240-6.
196. Downar, J., et al., *Anhedonia and reward-circuit connectivity distinguish nonresponders from responders to dorsomedial prefrontal repetitive transcranial magnetic stimulation in major depression*. Biol Psychiatry, 2014. **76**(3): p. 176-85.
197. Brunelin, J., et al., *The efficacy and safety of low frequency repetitive transcranial magnetic stimulation for treatment-resistant depression: the results from a large multicenter French RCT*. Brain Stimul, 2014. **7**(6): p. 855-63.
198. Fitzgerald, P.B., et al., *Equivalent beneficial effects of unilateral and bilateral prefrontal cortex transcranial magnetic stimulation in a large randomized trial in treatment-resistant major depression*. Int J Neuropsychopharmacol, 2013. **16**(9): p. 1975-84.
199. Richieri, R., et al., *Equivalent brain SPECT perfusion changes underlying therapeutic efficiency in pharmacoresistant depression using either high-frequency left or low-frequency right prefrontal rTMS*. Prog Neuropsychopharmacol Biol Psychiatry, 2012. **39**(2): p. 364-70.
200. Galletly, C., et al., *A randomized trial comparing repetitive transcranial magnetic stimulation given 3 days/week and 5 days/week for the treatment of major depression: is efficacy related to the duration of treatment or the number of treatments?* Psychol Med, 2012. **42**(5): p. 981-8.
201. Fitzgerald, P.B., et al., *A double blind randomized trial of unilateral left and bilateral prefrontal cortex transcranial magnetic stimulation in treatment resistant major depression*. J Affect Disord, 2012. **139**(2): p. 193-8.
202. Blumberger, D.M., et al., *A randomized double-blind sham-controlled comparison of unilateral and bilateral repetitive transcranial magnetic stimulation for treatment-resistant major depression*. World J Biol Psychiatry, 2012. **13**(6): p. 423-35.

203. Fitzgerald, P.B., et al., *A randomized trial of unilateral and bilateral prefrontal cortex transcranial magnetic stimulation in treatment-resistant major depression*. Psychol Med, 2011. **41**(6): p. 1187-96.
204. Aguirre, I., et al., *Age predicts low-frequency transcranial magnetic stimulation efficacy in major depression*. J Affect Disord, 2011. **130**(3): p. 466-9.
205. Zheng, H., et al., *High-frequency rTMS treatment increases left prefrontal myo-inositol in young patients with treatment-resistant depression*. Prog Neuropsychopharmacol Biol Psychiatry, 2010. **34**(7): p. 1189-95.
206. Fitzgerald, P.B., et al., *A randomized trial of the anti-depressant effects of low- and high-frequency transcranial magnetic stimulation in treatment-resistant depression*. Depress Anxiety, 2009. **26**(3): p. 229-34.
207. Fitzgerald, P.B., et al., *Priming stimulation enhances the effectiveness of low-frequency right prefrontal cortex transcranial magnetic stimulation in major depression*. J Clin Psychopharmacol, 2008. **28**(1): p. 52-8.
208. O'Reardon, J.P., et al., *Efficacy and safety of transcranial magnetic stimulation in the acute treatment of major depression: a multisite randomized controlled trial*. Biol Psychiatry, 2007. **62**(11): p. 1208-16.
209. Avery, D.H., et al., *Transcranial magnetic stimulation reduces pain in patients with major depression: a sham-controlled study*. J Nerv Ment Dis, 2007. **195**(5): p. 378-81.
210. Garcia-Toro, M., et al., *High (20-Hz) and low (1-Hz) frequency transcranial magnetic stimulation as adjuvant treatment in medication-resistant depression*. Psychiatry Res, 2006. **146**(1): p. 53-7.
211. Fitzgerald, P.B., et al., *A randomized, controlled trial of sequential bilateral repetitive transcranial magnetic stimulation for treatment-resistant depression*. Am J Psychiatry, 2006. **163**(1): p. 88-94.
212. Avery, D.H., et al., *A controlled study of repetitive transcranial magnetic stimulation in medication-resistant major depression*. Biol Psychiatry, 2006. **59**(2): p. 187-94.
213. Bajbouj, M., et al., *Motor cortical excitability in depressive patients after electroconvulsive therapy and repetitive transcranial magnetic stimulation*. J ECT, 2005. **21**(4): p. 243-5.
214. Bajbouj, M., et al., *Repetitive transcranial magnetic stimulation of the dorsolateral prefrontal cortex and cortical excitability in patients with major depressive disorder*. Exp Neurol, 2005. **196**(2): p. 332-8.
215. Herwig, U., et al., *Add-on rTMS for treatment of depression: a pilot study using stereotaxic coil-navigation according to PET data*. J Psychiatr Res, 2003. **37**(4): p. 267-75.
216. Garcia-Toro, M., et al., *Prefrontal repetitive transcranial magnetic stimulation as add on treatment in depression*. J Neurol Neurosurg Psychiatry, 2001. **71**(4): p. 546-8.
217. Garcia-Toro, M., et al., *Modest adjunctive benefit with transcranial magnetic stimulation in medication-resistant depression*. J Affect Disord, 2001. **64**(2-3): p. 271-5.
218. Stöhrmann, P., et al., *Effects of bilateral sequential theta-burst stimulation on functional connectivity in treatment-resistant depression: First results*. Journal of Affective Disorders, 2023. **324**: p. 660-669.
219. Sheen, J.Z., et al., *Heart rate change as a predictor of treatment outcome for ring-coil accelerated low frequency repetitive transcranial magnetic stimulation in major depressive disorder: An exploratory study*. Journal of Affective Disorders Reports, 2023. **12**: p. 100518.

220. Sheen, J.Z., *Treatment Response Biomarkers of Accelerated Low Frequency Repetitive Transcranial Magnetic Stimulation in Major Depressive Disorder*, in *Institute of Medical Science*. 2023, University of Toronto (Canada).
221. Miron, J.-P., *Optimizing Repetitive Transcranial Magnetic Stimulation for Major Depressive Disorder*, in *Institute of Medical Science*. 2023.
222. Kaboodvand, N., et al., *Macroscopic resting state model predicts theta burst stimulation response: A randomized trial*. *PLOS Computational Biology*, 2023. **19**(3): p. e1010958.
223. Bouaziz, N., et al., *Real world transcranial magnetic stimulation for major depression: A multisite, naturalistic, retrospective study*. *Journal of Affective Disorders*, 2023. **326**: p. 26-35.
224. Adu, M.K., et al., *Apparent Lack of Benefit of Combining Repetitive Transcranial Magnetic Stimulation with Internet-Delivered Cognitive Behavior Therapy for the Treatment of Resistant Depression: Patient-Centered Randomized Controlled Pilot Trial*. *Brain Sciences*, 2023. **13**(2): p. 293.
225. Razafsha, M., et al., *Extension of transcranial magnetic stimulation treatment for depression in non-responders: Results of a naturalistic study*. *Journal of Psychiatric Research*, 2022.
226. Madore, M.R., et al., *Prefrontal transcranial magnetic stimulation for depression in US military veterans - A naturalistic cohort study in the veterans health administration*. *J Affect Disord*, 2022. **297**: p. 671-678.
227. De Felice, N., et al., *Research Title Repetitive transcranial magnetic stimulation: course and early prediction of final response in depression*. 2022.
228. Cole, J., et al., *Efficacy of Adjunctive D-Cycloserine to Intermittent Theta-Burst Stimulation for Major Depressive Disorder: A Randomized Clinical Trial*. *JAMA Psychiatry*, 2022.
229. Blumberger, D.M., et al., *Effectiveness of Standard Sequential Bilateral Repetitive Transcranial Magnetic Stimulation vs Bilateral Theta Burst Stimulation in Older Adults With Depression: The FOUR-D Randomized Noninferiority Clinical Trial*. *JAMA Psychiatry*, 2022.
230. Rosen, A.C., et al., *Targeting location relates to treatment response in active but not sham rTMS stimulation*. *Brain Stimul*, 2021. **14**(3): p. 703-709.
231. Li, J., et al., *Comparison of electroconvulsive therapy and magnetic seizure therapy in schizophrenia: structural changes/neuroplasticity*. *Psychiatry Research*, 2022: p. 114523.
232. Daskalakis, Z.J., et al., *Confirmatory Efficacy and Safety Trial of Magnetic Seizure Therapy for Depression (CREST-MST): study protocol for a randomized non-inferiority trial of magnetic seizure therapy versus electroconvulsive therapy*. *Trials*, 2021. **22**(1): p. 786.
233. Tang, V.M., et al., *A pilot study of magnetic seizure therapy for treatment-resistant obsessive-compulsive disorder*. *Depress Anxiety*, 2020.
234. Backhouse, F.A., et al., *Characteristics of ictal EEG in Magnetic Seizure Therapy at various stimulation frequencies*. *Clin Neurophysiol*, 2018. **129**(8): p. 1770-1779.
235. Tang, V.M., et al., *Magnetic Seizure Therapy in Treatment-Resistant Schizophrenia: A Pilot Study*. *Front Psychiatry*, 2017. **8**: p. 310.
236. Cretaz, E., et al., *Use of Magnetic Seizure Therapy for Treatment-Resistant Depression: A Case Series*. *The Journal of ECT*, 2022: p. 10.1097.
237. Tang, V.M., et al., *Continuation Magnetic Seizure Therapy for Treatment-Resistant Unipolar or Bipolar Depression*. *J Clin Psychiatry*, 2021. **82**(6).

238. Jiang, J., et al., *Magnetic Seizure Therapy Compared to Electroconvulsive Therapy for Schizophrenia: A Randomized Controlled Trial*. *Frontiers in Psychiatry*, 2021. **12**.
239. Chauhan, P., et al., *Efficacy of Intensive Cerebellar Intermittent Theta Burst Stimulation (iCiTBS) in Treatment-Resistant Schizophrenia: a Randomized Placebo-Controlled Study*. *Cerebellum*, 2021. **20**(1): p. 116-123.
240. Weissman, C.R., et al., *Magnetic Seizure Therapy for Suicidality in Treatment-Resistant Depression*. *JAMA Netw Open*, 2020. **3**(8): p. e207434.
241. Tang, V.M., et al., *Magnetic seizure therapy is efficacious and well tolerated for treatment-resistant bipolar depression: an open-label clinical trial*. *J Psychiatry Neurosci*, 2020. **45**(2): p. 190098.
242. Daskalakis, Z.J., et al., *Magnetic seizure therapy (MST) for major depressive disorder*. *Neuropsychopharmacology*, 2020. **45**(2): p. 276-282.
243. Tang, V., et al., *Magnetic Seizure Therapy in Bipolar Depression: Clinical Efficacy and Cognitive Safety*. *Brain Stimul*, 2019. **12**(2): p. 566.
244. Kayser, S., et al., *Clinical Predictors of Response to Magnetic Seizure Therapy in Depression: A Preliminary Report*. *J ECT*, 2018.
245. Fitzgerald, P.B., et al., *A pilot study of the comparative efficacy of 100 Hz magnetic seizure therapy and electroconvulsive therapy in persistent depression*. *Depress Anxiety*, 2018. **35**(5): p. 393-401.
246. Sun, Y., et al., *Indicators for Remission of Suicidal Ideation Following Magnetic Seizure Therapy in Patients With Treatment-Resistant Depression*. *JAMA Psychiatry*, 2016. **73**(4): p. 337-45.
247. Noda, Y., et al., *Magnetic seizure therapy-induced mania: a report of 2 cases*. *J ECT*, 2015. **31**(1): p. e4-6.
248. Daskalakis, Z.J., et al., *Confirmatory Efficacy and Safety Trial of Magnetic Seizure Therapy for Depression (CREST-MST): protocol for identification of novel biomarkers via neurophysiology*. *Trials*, 2021. **22**(1): p. 906.
249. Kallioniemi, E., et al., *Magnetic Seizure Therapy: Towards Personalized Seizure Therapy for Major Depression*. *Pers Med Psychiatry*, 2019. **17-18**: p. 37-42.
250. Traynor, J.M., et al., *A feasibility trial of conjoint magnetic seizure therapy and dialectical behavior therapy for suicidal patients with borderline personality disorder and treatment-resistant depression*. *Nature Mental Health*, 2023. **1**(1): p. 45-54.
251. Smith, S.E., et al., *Magnetic seizure therapy and electroconvulsive therapy increase frontal aperiodic activity*. *medRxiv*, 2023.
252. Cai, D.-B., et al., *Comparison of Efficacy and Safety of Magnetic Seizure Therapy and Electroconvulsive Therapy for Depression: A Systematic Review*. *Journal of Personalized Medicine*, 2023. **13**(3): p. 449.
253. Bellini, H., et al., *Magnetic Waves vs. Electric Shocks: A Non-Inferiority Study of Magnetic Seizure Therapy and Electroconvulsive Therapy in Treatment-Resistant Depression*. *Biomedicines*, 2023. **11**(8): p. 2150.
254. Kayser, S., et al., *Effects of magnetic seizure therapy on anterograde and retrograde amnesia in treatment-resistant depression*. *Depress Anxiety*, 2020. **37**(2): p. 125-133.
255. Syvertsen Mykland, M., et al., *Sleep restriction alters cortical inhibition in migraine: A transcranial magnetic stimulation study*. *Clinical Neurophysiology*, 2022.

256. Rawitzer, J.L.C., *Intermittierende Theta-Burst-Stimulation (iTBS) bei episodischer Migräne*. 2021, Dissertation, Duisburg, Essen, Universität Duisburg-Essen, 2021.
257. Leahu, P., et al., *Increased migraine-free intervals with multifocal repetitive transcranial magnetic stimulation*. *Brain Stimul*, 2021. **14**(6): p. 1544-1552.
258. Milnik, V., D. Waibler, and M. Kienle, *Repetitive transkranielle Magnestimulation bei akuten Migräneattacken mit und ohne Aura*. *Neurophysiol Lab*, 2013. **35**: p. 6.
259. Conforto, A.B., et al., *Increased variability of motor cortical excitability to transcranial magnetic stimulation in migraine: a new clue to an old enigma*. *J Headache Pain*, 2012. **13**(1): p. 29-37.
260. Teepker, M., et al., *Low-frequency rTMS of the vertex in the prophylactic treatment of migraine*. *Cephalalgia*, 2010. **30**(2): p. 137-44.
261. Mykland, M.S., et al., *Insufficient sleep may alter cortical excitability near the migraine attack: A blinded TMS crossover study*. *Cephalalgia*, 2023. **43**(3): p. 03331024221148391.
262. Helling, R.M., et al., *TMS-evoked EEG potentials demonstrate altered cortical excitability in migraine with aura*. *Brain Topography*, 2023.
263. Yuruk, D., et al., *Sequential bilateral accelerated theta burst stimulation in adolescents with suicidal ideation associated with major depressive disorder: Protocol for a randomized controlled trial*. *PLOS ONE*, 2023. **18**(4): p. e0280010.
264. Schoiswohl, S., et al., *Activate & fire: a feasibility study in combining acoustic stimulation and continuous theta burst stimulation in chronic tinnitus*. *BMC Neurology*, 2023. **23**(1): p. 14.
265. Razza, L.B., et al., *Transcranial direct current stimulation versus intermittent theta-burst stimulation for the improvement of working memory performance*. *International Journal of Clinical and Health Psychology*, 2023. **23**(1): p. 100334.
266. Pastore-Wapp, M., et al., *Feasibility of a combined intermittent theta-burst stimulation and video game-based dexterity training in Parkinson's disease*. *Journal of NeuroEngineering and Rehabilitation*, 2023. **20**(1): p. 2.
267. Panidi, K., et al., *Posterior parietal cortex is causally involved in reward valuation but not probability weighting during risky choice*. *bioRxiv*, 2023: p. 2023.02. 08.527663.
268. Mikellides, G., et al., *Accelerated intermittent theta burst stimulation in smoking cessation: No differences between active and placebo stimulation when using advanced placebo coil technology. A double-blind follow-up study*. *International Journal of Clinical and Health Psychology*, 2023. **23**(2): p. 100351.
269. Mikellides, G., *Is this for real? The role of advanced placebo technology when using Transcranial Magnetic Stimulation in clinical practice*. 2023, Maastricht University.
270. Luthra, S., et al., *Using TMS to evaluate a causal role for right posterior temporal cortex in talker-specific phonetic processing*. *Brain and Language*, 2023. **240**: p. 105264.
271. Hall, M., et al., *The effects of TMS coil orientation on corticospinal and cortico-cortical excitability of lower limb in healthy adults*. 2023.
272. Gogulski, J., et al., *Mapping cortical excitability in the human dorsolateral prefrontal cortex*. *bioRxiv*, 2023: p. 2023.01. 20.524867.
273. Dijkstra, E., et al., *Transcranial Magnetic Stimulation-induced Heart-Brain-Coupling: Implications for site selection and frontal thresholding – preliminary findings*. *Biological Psychiatry Global Open Science*, 2023.

274. Cristancho, P., et al., *A pilot randomized sham controlled trial of bilateral iTBS for depression and executive function in older adults*. International Journal of Geriatric Psychiatry, 2023. **38**(1): p. e5851.
275. Wilkening, J., F. Witteler, and R. Goya-Maldonado, *Suicidality and relief of depressive symptoms with intermittent theta burst stimulation in a sham-controlled randomized clinical trial*. Acta Psychiatrica Scandinavica, 2022. **146**(6): p. 540-556.
276. Sundman, M.H., *Characterizing the Neurophysiological Correlates of Age-Related Cognitive Decline with Corticomotor Transcranial Magnetic Stimulation*. 2022, The University of Arizona.
277. Struckmann, W., et al., *Modulation of dorsolateral prefrontal cortex functional connectivity after intermittent theta-burst stimulation in depression: Combining findings from fNIRS and fMRI*. NeuroImage: Clinical, 2022. **34**: p. 103028.
278. Schoiswohl, S., et al., *One way or another: treatment effects of 1 Hz rTMS using different current directions in a small sample of tinnitus patients*. Neuroscience Letters, 2022: p. 137026.
279. Razza, L., et al., *Cortical thickness relates to working memory performance after non-invasive brain stimulation*. 2022.
280. Mitsui, T., et al., *Efficacy of Repetitive Trans-spinal Magnetic Stimulation for Patients with Parkinson's Disease: a Randomised Controlled Trial*. Neurotherapeutics, 2022.
281. Mikellides, G., et al., *Accelerated Intermittent Theta Burst Stimulation in Smoking Cessation: Placebo Effects Equal to Active Stimulation When Using Advanced Placebo Coil Technology*. Frontiers in Psychiatry, 2022. **13**.
282. Iwama, S., et al., *Beta rhythmicity in human motor cortex reflects neural population coupling that modulates subsequent finger coordination stability*. Communications Biology, 2022. **5**(1): p. 1375.
283. Gordon, P.C., et al., *Prefrontal theta phase-dependent rTMS-induced plasticity of cortical and behavioral responses in human cortex*. Brain Stimulation, 2022. **15**(2): p. 391-402.
284. Ferguson, J., et al., *Report of seizure induced by intermittent theta burst stimulation*. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 2022.
285. Caulfield, K.A., et al., *Neuronavigation maximizes accuracy and precision in TMS positioning: Evidence from 11,230 distance, angle, and electric field modeling measurements*. Brain Stimulation, 2022. **15**(5): p. 1192-1205.
286. Bidzinski, K.K., et al., *Investigating repetitive transcranial magnetic stimulation on cannabis use and cognition in people with schizophrenia*. NPJ Schizophr, 2022. **8**(1): p. 2.
287. Thierrée, S., et al., *Combining Trauma Script Exposure With rTMS to Reduce Symptoms of Post-Traumatic Stress Disorder: Randomized Controlled Trial*. Neuromodulation: Technology at the Neural Interface, 2021. **n/a**(n/a).
288. Ozdemir, R.A., et al., *Cortical Responses to Noninvasive Perturbations Enable Individual Brain Fingerprinting*. Brain Stimul, 2021.
289. Mori, N., et al., *Analgesic Effects of Repetitive Transcranial Magnetic Stimulation at Different Stimulus Parameters for Neuropathic Pain: A Randomized Study*. Neuromodulation, 2021.

290. Mori, N., et al., *Exploratory study of optimal parameters of repetitive transcranial magnetic stimulation for neuropathic pain in the lower extremities*. Pain reports, 2021. **6**(4): p. e964-e964.
291. Imperatore, J.P., et al., *Non-invasive brain stimulation as a tool to decrease chronic pain in current opiate users: A parametric evaluation of two promising cortical targets*. Drug Alcohol Depend, 2021: p. 108409.
292. Hermiller, M.S., et al., *Evidence from theta-burst stimulation that age-related de-differentiation of the hippocampal network is functional for episodic memory*. Neurobiology of Aging, 2021.
293. Boden, R., et al., *Dorsomedial prefrontal theta burst stimulation to treat anhedonia, avolition, and blunted affect in schizophrenia or depression - a randomized controlled trial*. J Affect Disord, 2021. **290**: p. 308-315.
294. Tavares, D.F., et al., *Efficacy, Safety, and Tolerability of Theta-Burst Stimulation in Mixed Depression: Design, Rationale, and Objectives of a Randomized, Double-Blinded, Sham-Controlled Trial*. Frontiers in Psychiatry, 2020. **11**.
295. Struckmann, W., et al., *Modulation of the prefrontal blood oxygenation response to intermittent theta-burst stimulation in depression: A sham-controlled study with functional near-infrared spectroscopy*. World J Biol Psychiatry, 2020: p. 1-10.
296. Raffin, E., et al., *Probing regional cortical excitability via input-output properties using transcranial magnetic stimulation and electroencephalography coupling*. Hum Brain Mapp, 2020. **41**(10): p. 2741-2761.
297. Quesada, C., et al., *New procedure of high-frequency repetitive transcranial magnetic stimulation for central neuropathic pain: a placebo-controlled randomized crossover study*. Pain, 2020. **161**(4): p. 718-728.
298. Powers, J.P., et al., *Examining the Role of Lateral Parietal Cortex in Emotional Distancing Using TMS*. Cogn Affect Behav Neurosci, 2020. **20**(5): p. 1090-1102.
299. Pommier, B., et al., *Is the analgesic effect of motor cortex stimulation somatotopically driven or not?* Neurophysiol Clin, 2020. **50**(3): p. 195-203.
300. Persson, J., et al., *Intermittent theta burst stimulation over the dorsomedial prefrontal cortex modulates resting-state connectivity in depressive patients: A sham-controlled study*. Behav Brain Res, 2020. **394**: p. 112834.
301. Newman-Norlund, R.D., et al., *Dissociable Effects of Theta-Burst Repeated Transcranial Magnetic Stimulation to the Inferior Frontal Gyrus on Inhibitory Control in Nicotine Addiction*. Front Psychiatry, 2020. **11**: p. 260.
302. Malm, E., et al., *Pain trajectories of dorsomedial prefrontal intermittent theta burst stimulation versus sham treatment in depression*. BMC Neurol, 2020. **20**(1): p. 311.
303. Klirova, M., et al., *Prolonged Continuous Theta Burst Stimulation of the Motor Cortex Modulates Cortical Excitability But not Pain Perception*. Front Syst Neurosci, 2020. **14**: p. 27.
304. Beynel, L., et al., *Site-Specific Effects of Online rTMS during a Working Memory Task in Healthy Older Adults*. Brain Sci, 2020. **10**(5).
305. Balderston, N.L., et al., *Mechanistic link between right prefrontal cortical activity and anxious arousal revealed using transcranial magnetic stimulation in healthy subjects*. Neuropsychopharmacology, 2020. **45**(4): p. 694-702.

306. Balderston, N.L., et al., *Low-frequency parietal repetitive transcranial magnetic stimulation reduces fear and anxiety*. *Transl Psychiatry*, 2020. **10**(1): p. 68.
307. Harika-Germaneau, G., et al., *Continuous theta burst stimulation over the supplementary motor area in refractory obsessive-compulsive disorder treatment: A randomized sham-controlled trial*. *Brain Stimul*, 2019. **12**(6): p. 1565-1571.
308. Hanlon, C.A., et al., *Neural Architecture Influences Repetitive Transcranial Magnetic Stimulation-Induced Functional Change: A Diffusion Tensor Imaging and Functional Magnetic Resonance Imaging Study of Cue-Reactivity Modulation in Alcohol Users*. *Clin Pharmacol Ther*, 2019. **106**(4): p. 702-705.
309. Umezaki, Y., et al., *The Efficacy of Daily Prefrontal Repetitive Transcranial Magnetic Stimulation (rTMS) for Burning Mouth Syndrome (BMS): A Randomized Controlled Single-blind Study*. *Brain Stimul*, 2016. **9**(2): p. 234-42.
310. Farzan, F., et al., *Enhancing the Temporal Complexity of Distributed Brain Networks with Patterned Cerebellar Stimulation*. *Scientific Reports*, 2016. **6**(1): p. 23599.
311. Dunlop, K., et al., *Increases in frontostriatal connectivity are associated with response to dorsomedial repetitive transcranial magnetic stimulation in refractory binge/purge behaviors*. *Neuroimage Clin*, 2015. **8**: p. 611-8.
312. Cazzoli, D., et al., *Theta burst stimulation improves overt visual search in spatial neglect independently of attentional load*. *Cortex*, 2015. **73**: p. 317-29.
313. Scrivener, C.L., et al., *Now you see it, now you don't: optimal parameters for interslice stimulation in concurrent TMS-fMRI*. *bioRxiv*, 2021: p. 2021.05.28.446111.
314. Tik, M., et al., *Mapping TMS local and remote immediate effects by concurrent TMS/fMRI using a dedicated high-sensitivity coil array*, in *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*. 2017, Elsevier. p. 489-491.
315. Navarro de Lara, L.I., et al., *High-sensitivity TMS/fMRI of the human Motor cortex using a dedicated multichannel MR coil*. 2017.
316. Navarro de Lara, L.I., et al., *A novel coil array for combined TMS/fMRI experiments at 3 T*. *Magn Reson Med*, 2015. **74**(5): p. 1492-501.
317. Sanansilp, V., et al., *Effectiveness of the Four-Frequency Protocol of Repetitive Peripheral Magnetic Stimulation (rPMS) for Chronic Pain*. *Siriraj Medical Journal*, 2022. **74**(8): p. 518-529.
318. Masoumbeigi, M., et al., *Altered Amplitude of Low-Frequency Fluctuations of rs-fMRI Signal followed by rTMS Analgesic Effects in Non-Specific Chronic Low Back Pain (CLBP) Patients*. *Journal of Biomedical Physics and Engineering*, 2022.
319. Cai, X. and X. Xu, *Effect of rPMS on N-type calcium channel in rats with neuropathic pain*. *Tropical Journal of Pharmaceutical Research*, 2022. **21**(7): p. 1479-1485.
320. Humaira, A., et al., *A patient-oriented analysis of pain side effect: A step to improve the patient's experience during rTMS?* *Brain Stimulation*, 2021. **14**(5): p. 1147-1153.
321. Hamani, C., et al., *Motor cortex stimulation for chronic neuropathic pain: results of a double-blind randomized study*. *Brain*, 2021.
322. Freigang, S., et al., *Comparing the Impact of Multi-Session Left Dorsolateral Prefrontal and Primary Motor Cortex Neuronavigated Repetitive Transcranial Magnetic Stimulation (nrTMS) on Chronic Pain Patients*. *Brain Sci*, 2021. **11**(8): p. 961.

323. Bursali, C., et al., *Effectiveness of Repetitive Transcranial Magnetic Stimulation in Patients With Failed Back Surgery Syndrome: A Double-Blind Randomized Placebo-Controlled Study*. Pain Physician, 2021. **24**(1): p. E23-E30.
324. Attal, N., et al., *Repetitive transcranial magnetic stimulation for neuropathic pain: a randomized multicentre sham-controlled trial*. Brain, 2021.
325. Andre-Obadia, N., M. Magnin, and L. Garcia-Larrea, *Theta-burst versus 20 Hz repetitive transcranial magnetic stimulation in neuropathic pain: A head-to-head comparison*. Clin Neurophysiol, 2021. **132**(10): p. 2702-2710.
326. Hodaj, H., et al., *Long-term treatment of chronic orofacial, pudendal, and central neuropathic limb pain with repetitive transcranial magnetic stimulation of the motor cortex*. Clin Neurophysiol, 2020. **131**(7): p. 1423-1432.
327. Mrabet, H., et al., *Repetitive transcranial magnetic stimulation as a treatment for chronic pain: A Tunisian series*. Neurophysiol Clin, 2019.
328. Galhardoni, R., et al., *Insular and anterior cingulate cortex deep stimulation for central neuropathic pain: Disassembling the percept of pain*. Neurology, 2019. **92**(18): p. e2165-e2175.
329. De Martino, E., et al., *Sessions of Prolonged Continuous Theta Burst Stimulation or High-frequency 10 Hz Stimulation to Left Dorsolateral Prefrontal Cortex for 3 Days Decreased Pain Sensitivity by Modulation of the Efficacy of Conditioned Pain Modulation*. The Journal of Pain, 2019. **20**(12): p. 1459-1469.
330. Quesada, C., et al., *Robot-Guided Neuronavigated Repetitive Transcranial Magnetic Stimulation (rTMS) in Central Neuropathic Pain*. Arch Phys Med Rehabil, 2018. **99**(11): p. 2203-2215.e1.
331. Blokhina, V., et al., *The effectiveness of the complex repetitive peripheral magnetic stimulation (rPMS) in treatment of lumbosacral radiculopathy*. 2017, Clinical Neurophysiology. p. e278.
332. Ayache, S.S., et al., *Analgesic effects of navigated motor cortex rTMS in patients with chronic neuropathic pain*. Eur J Pain, 2016. **20**(9): p. 1413-22.
333. Attal, N., et al., *Repetitive transcranial magnetic stimulation and transcranial direct-current stimulation in neuropathic pain due to radiculopathy: a randomized sham-controlled comparative study*. Pain, 2016. **157**(6): p. 1224-1231.
334. Moisset, X., et al., *Prolonged continuous theta-burst stimulation is more analgesic than 'classical' high frequency repetitive transcranial magnetic stimulation*. Brain Stimul, 2015. **8**(1): p. 135-41.
335. Dall'Agnol, L., et al., *Repetitive transcranial magnetic stimulation increases the corticospinal inhibition and the brain-derived neurotrophic factor in chronic myofascial pain syndrome: an explanatory double-blinded, randomized, sham-controlled trial*. J Pain, 2014. **15**(8): p. 845-55.
336. Lefaucheur, J.P., et al., *Analgesic effects of repetitive transcranial magnetic stimulation of the motor cortex in neuropathic pain: influence of theta burst stimulation priming*. Eur J Pain, 2012. **16**(10): p. 1403-13.
337. Picarelli, H., et al., *Repetitive transcranial magnetic stimulation is efficacious as an add-on to pharmacological therapy in complex regional pain syndrome (CRPS) type I*. J Pain, 2010. **11**(11): p. 1203-10.

338. Ahdab, R., et al., *Comparison of "standard" and "navigated" procedures of TMS coil positioning over motor, premotor and prefrontal targets in patients with chronic pain and depression*. *Neurophysiol Clin*, 2010. **40**(1): p. 27-36.
339. Freigang, S., et al., *Twenty-Three Months Repetitive Transcranial Magnetic Stimulation of the Primary Motor Cortex for Refractory Trigeminal Neuralgia: A Single-Case Study*. *Life*, 2023. **13**(1): p. 126.
340. Lapa, J.D.d.S., et al., *Burst Transspinal Magnetic Stimulation Alleviates Nociceptive Pain in Parkinson Disease—A Pilot Phase II Double-Blind, Randomized Study*. *Neuromodulation: Technology at the Neural Interface*, 2022.
341. Jiang, C., et al., *Effectiveness of repetitive transcranial magnetic stimulation combined with a brief exposure procedure for post-stroke posttraumatic stress disorder*. *Journal of Affective Disorders*, 2023.
342. Taghva, A., et al., *Magnetic Resonance Therapy Improves Clinical Phenotype and EEG Alpha Power in Posttraumatic Stress Disorder*. *Trauma Mon*, 2015. **20**(4): p. e27360.
343. Fitzgerald, P.B., et al., *A pilot study of fMRI targeted rTMS for obsessive compulsive disorder*. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*, 2022.
344. Syed, F.A., et al., *Adjuvant intermittent theta burst stimulation over dorsomedial prefrontal cortex in treatment-resistant obsessive-compulsive disorder type: Letter to the editor*. *Brain Stimul*, 2021. **14**(1): p. 74-76.
345. Mikellides, G., et al., *TMS-Induced Seizure during FDA-Approved Bilateral DMPFC Protocol for Treating OCD: A Case Report*. *Case Reports in Neurology*, 2021. **13**(3): p. 584-590.
346. Dutta, P., et al., *Efficacy of intensive orbitofrontal continuous Theta Burst Stimulation (iOFcTBS) in Obsessive Compulsive Disorder: A Randomized Placebo Controlled Study*. *Psychiatry Res*, 2021. **298**: p. 113784.
347. Noda, Y., et al., *A Case Series of Continuous Theta Burst Stimulation Treatment for the Supplementary Motor Area Twice a Day in Patients with Obsessive-Compulsive Disorder: A Real World TMS Registry Study in Japan*. *Journal of Personalized Medicine*, 2023. **13**(5): p. 875.
348. Jahanbakhsh, G., et al., *Effectiveness of adjunctive low-frequency repetitive transcranial magnetic stimulation therapy over the left dorsolateral prefrontal cortex in patients with obsessive-compulsive disorder refractory to medical treatment: A double-blind, randomized clinical trial*. *Asian Journal of Psychiatry*, 2023. **80**: p. 103384.
349. Ikawa, H., et al., *A Case Series of Deep Transcranial Magnetic Stimulation Treatment for Patients with Obsessive-Compulsive Disorder in the Tokyo Metropolitan Area*. *Journal of Clinical Medicine*, 2022. **11**(20).
350. Yamada, N., et al., *Comparison of the effect and treatment sequence between a 2-week parallel repetitive transcranial magnetic stimulation and rehabilitation and a 2-week rehabilitation-only intervention during a 4-week hospitalization for upper limb paralysis after stroke: An open-label, crossover observational study*. *Journal of Central Nervous System Disease*, 2022. **14**: p. 11795735211072731.
351. Dionísio, A., et al., *The Neurophysiological Impact of Subacute Stroke: Changes in Cortical Oscillations Evoked by Bimanual Finger Movement*. *Stroke Research and Treatment*, 2022. **2022**: p. 9772147.

352. Adeel, M., et al., *Effects of paired stimulation with specific waveforms on cortical and spinal plasticity in subjects with a chronic spinal cord injury*. Journal of the Formosan Medical Association, 2022.
353. Xu, S., Yang, Q., Chen, M., Deng, P., Zhuang, R., Sun, Z., Li, C., Yan, Z., Zhang, Y., Jia, J., *Capturing Neuroplastic Changes after iTBS in Patients with Post-Stroke Aphasia: A Pilot fMRI Study*. Brain Sciences, 2021. **11**.
354. Pundik, S., et al., *Does rTMS Targeting Contralesional S1 Enhance Upper Limb Somatosensory Function in Chronic Stroke? A Proof-of-Principle Study*. Neurorehabilitation and neural repair, 2021. **35**(3): p. 233-246.
355. Dionísio, A., et al., *The Role of Continuous Theta Burst TMS in the Neurorehabilitation of Subacute Stroke Patients: A Placebo-Controlled Study*. Frontiers in neurology, 2021. **12**: p. 749798-749798.
356. Kinoshita, S., et al., *Dose-response of rPMS for upper Limb hemiparesis after stroke*. Medicine (Baltimore), 2020. **99**(24): p. e20752.
357. Nyffeler, T., et al., *Theta burst stimulation in neglect after stroke: functional outcome and response variability origins*. Brain, 2019. **142**(4): p. 992-1008.
358. Forogh, B., et al., *The Effect of Repetitive Transcranial Magnetic Stimulation on Postural Stability After Acute Stroke: A Clinical Trial*. Basic Clin Neurosci, 2017. **8**(5): p. 405-411.
359. Du, J., et al., *Effects of repetitive transcranial magnetic stimulation on motor recovery and motor cortex excitability in patients with stroke: a randomized controlled trial*. Eur J Neurol, 2016. **23**(11): p. 1666-1672.
360. Blesneag, A.V., et al., *Low-frequency rTMS in patients with subacute ischemic stroke: clinical evaluation of short and long-term outcomes and neurophysiological assessment of cortical excitability*. J Med Life, 2015. **8**(3): p. 378-87.
361. Kindler, J., et al., *Theta burst stimulation over the right Broca's homologue induces improvement of naming in aphasic patients*. Stroke, 2012. **43**(8): p. 2175-9.
362. Cazzoli, D., et al., *Theta burst stimulation reduces disability during the activities of daily living in spatial neglect*. Brain, 2012. **135**(Pt 11): p. 3426-39.
363. Di Lazzaro, V., et al., *Modulating cortical excitability in acute stroke: a repetitive TMS study*. Clin Neurophysiol, 2008. **119**(3): p. 715-723.
364. Boggio, P.S., et al., *Hand function improvement with low-frequency repetitive transcranial magnetic stimulation of the unaffected hemisphere in a severe case of stroke*. Am J Phys Med Rehabil, 2006. **85**(11): p. 927-30.
365. Komatsu, T., et al., *Effects and safety of high-frequency rTMS in acute intracerebral hemorrhage patients: A pilot study*. Journal of the Neurological Sciences, 2022: p. 120473.
366. Kakuda, W., et al., *A multi-center study on low-frequency rTMS combined with intensive occupational therapy for upper limb hemiparesis in post-stroke patients*. J Neuroeng Rehabil, 2012. **9**(1): p. 4.
367. Salvalaggio, S., et al., *Prediction of rehabilitation induced motor recovery after stroke using a multi-dimensional and multi-modal approach*. Frontiers in Aging Neuroscience, 2023. **15**.
368. Panathoop, A., J. Saengsuwan, and R. Vichiansiri, *Effects of repetitive peripheral magnetic stimulation vs. conventional therapy in the management of carpal tunnel syndrome: a pilot randomized controlled trial*. PeerJ, 2023. **11**: p. e15398.

369. Katai, S., et al., *Cortical reorganization correlates with motor recovery after low-frequency repetitive transcranial magnetic stimulation combined with occupational therapy in chronic subcortical stroke patients*. *Neuroimage: Reports*, 2023. **3**(1): p. 100156.
370. Hamaguhi, T. and M. Abo, *Recovery of Patients With Upper Limb Paralysis Due to Stroke Who Underwent Intervention Using Low-Frequency Repetitive Transcranial Magnetic Stimulation Combined With Occupational Therapy: A Retrospective Cohort Study*. *Neuromodulation: Technology at the Neural Interface*, 2023.
371. Bengtsson, J., *Negative symptoms, repetitive transcranial magnetic stimulation and heart rate variability in schizophrenia and depression*, in *Faculty of Medicine*. 2022, Uppsala: Acta Universitatis Upsaliensis Uppsala.
372. Zhu, L., et al., *Cerebellar Theta Burst Stimulation for the Treatment of Negative Symptoms of Schizophrenia: A Multicenter, Double-blind, Randomized Controlled Trial*. *Psychiatry Research*, 2021: p. 114204.
373. Campana, M., et al., *Effects of high-frequency prefrontal rTMS on heart frequency rates and blood pressure in schizophrenia*. *J Psychiatr Res*, 2021. **140**: p. 243-249.
374. Bation, R., et al., *Intermittent theta burst stimulation for negative symptoms of schizophrenia-A double-blind, sham-controlled pilot study*. *NPJ Schizophr*, 2021. **7**(1): p. 10.
375. Basavaraju, R., et al., *Intermittent theta burst stimulation of cerebellar vermis enhances fronto-cerebellar resting state functional connectivity in schizophrenia with predominant negative symptoms: A randomized controlled trial*. *Schizophr Res*, 2021. **238**: p. 108-120.
376. Walther, S., et al., *Inhibitory Repetitive Transcranial Magnetic Stimulation to Treat Psychomotor Slowing: A Transdiagnostic, Mechanism-Based Randomized Double-Blind Controlled Trial*. *Schizophrenia Bulletin Open*, 2020. **1**(1).
377. Wagner, E., et al., *Efficacy of high-frequency repetitive transcranial magnetic stimulation in schizophrenia patients with treatment-resistant negative symptoms treated with clozapine*. *Schizophr Res*, 2019.
378. Dlabac-de Lange, J.J., et al., *Effect of rTMS on brain activation in schizophrenia with negative symptoms: A proof-of-principle study*. *Schizophr Res*, 2015. **168**(1-2): p. 475-82.
379. Dlabac-de Lange, J.J., et al., *Efficacy of bilateral repetitive transcranial magnetic stimulation for negative symptoms of schizophrenia: results of a multicenter double-blind randomized controlled trial*. *Psychol Med*, 2015. **45**(6): p. 1263-75.
380. Mehta, U.M., et al., *Reduced mirror neuron activity in schizophrenia and its association with theory of mind deficits: evidence from a transcranial magnetic stimulation study*. *Schizophr Bull*, 2014. **40**(5): p. 1083-94.
381. Barr, M.S., et al., *The effect of repetitive transcranial magnetic stimulation on gamma oscillatory activity in schizophrenia*. *PLoS One*, 2011. **6**(7): p. e22627.
382. Donati, F.L., et al., *Natural Oscillatory Frequency Slowing in the Premotor Cortex of Early-Course Schizophrenia Patients: A TMS-EEG Study*. *Brain Sciences*, 2023. **13**(4): p. 534.
383. Pallanti, S., et al., *cTBS over the pre-SMA in schizophrenia and comorbid substance use disorder: preliminary clinical data*. 2022.
384. Wecht, J.R., et al., *Posteroanterior Cervical Transcutaneous Spinal Cord Stimulation: Interactions with Cortical and Peripheral Nerve Stimulation*. *J Clin Med*, 2021. **10**(22).
385. Madsen, K.H., Drakaki, M., Thielscher, A., *Electric Field Models of Transcranial Magnetic Stimulation Coils*

with Arbitrary Geometries: Reconstruction from Incomplete Magnetic Field Measurements. arxiv, 2021.

386. Zumbansen, A., et al., *Differential Effects of Speech and Language Therapy and rTMS in Chronic Versus Subacute Post-stroke Aphasia: Results of the NORTHSTAR-CA Trial.* Neurorehabilitation and Neural Repair, 2022. **0**(0): p. 15459683211065448.
387. Pipatsrisawat, S., et al., *Effects of combining two techniques of non-invasive brain stimulation in subacute stroke patients: a pilot study.* BMC Neurology, 2022. **22**(1): p. 98.
388. Nguyen-Danse, D.A., *New treatments for induction of motor plasticity after stroke.* 2022, University of Geneva.
389. Hong, Y., et al., *High-frequency repetitive transcranial magnetic stimulation (rTMS) protects against ischemic stroke by inhibiting M1 microglia polarization through let-7b-5p/HMGA2/NF-κB signaling pathway.* BMC Neuroscience, 2022. **23**(1): p. 49.
390. Chen, Q., et al., *The effect of coupled inhibitory-facilitatory repetitive transcranial magnetic stimulation on shaping early reorganization of the motor network after stroke.* Brain Research, 2022: p. 147959.
391. Zhong, L., et al., *Repetitive Transcranial Magnetic Stimulation at Different Sites for Dysphagia After Stroke: A Randomized, Observer-Blind Clinical Trial.* Frontiers in Neurology, 2021. **12**(860).
392. Xu, D., et al., *Comparative Analysis of the Effect of Low-Frequency Repeated Transcranial Magnetic Stimulation and Extracorporeal Shock Wave on Improving the Spasm of Flexor after Stroke.* Evidence-Based Complementary and Alternative Medicine, 2021. **2021**: p. 7769581.
393. Kang, J.H., et al., *The effects of additional electrical stimulation combined with repetitive transcranial magnetic stimulation and motor imagery on upper extremity motor recovery in the subacute period after stroke: A preliminary study.* Medicine, 2021. **100**(35).
394. Arachchige, P.R.W., et al., *Changes in brain morphometry after motor rehabilitation in chronic stroke.* Somatosensory & Motor Research, 2021. **38**(4): p. 277-286.
395. Hong, Y., et al., *High-frequency repetitive transcranial magnetic stimulation improves functional recovery by inhibiting neurotoxic polarization of astrocytes in ischemic rats.* J Neuroinflammation, 2020. **17**(1): p. 150.
396. Vatanparasti, S., et al., *The Effect of Continuous Theta-Burst Transcranial Magnetic Stimulation Combined with Prism Adaptation on the Neglect Recovery in Stroke Patients.* J Stroke Cerebrovasc Dis, 2019: p. 104296.
397. Thibaut, A., et al., *Using Brain Oscillations and Corticospinal Excitability to Understand and Predict Post-Stroke Motor Function.* Front Neurol, 2017. **8**: p. 187.
398. Hwang, P., et al., *Transcranial Motor Evoked Potentials of Lower Limbs Can Prognosticate Ambulation in Hemiplegic Stroke Patients.* Ann Rehabil Med, 2016. **40**(3): p. 383-91.
399. Choi, C.M., et al., *Effects of Repetitive Transcranial Magnetic Stimulation Over Trunk Motor Spot on Balance Function in Stroke Patients.* Ann Rehabil Med, 2016. **40**(5): p. 826-834.
400. Kim, Y.K., J.H. Jung, and S.H. Shin, *A comparison of the effects of repetitive transcranial magnetic stimulation (rTMS) by number of stimulation sessions on hemispatial neglect in chronic stroke patients.* Exp Brain Res, 2015. **233**(1): p. 283-9.

401. Kim, G.W., et al., *Can motor evoked potentials be an objective parameter to assess extremity function at the acute or subacute stroke stage?* Ann Rehabil Med, 2015. **39**(2): p. 253-61.
402. Di Lazzaro, V., et al., *Direct demonstration that repetitive transcranial magnetic stimulation can enhance corticospinal excitability in stroke.* Stroke, 2006. **37**(11): p. 2850-3.
403. Di Lazzaro, V., et al., *Repetitive transcranial magnetic stimulation of the motor cortex for hemichorea.* J Neurol Neurosurg Psychiatry, 2006. **77**(9): p. 1095-7.
404. Sakamoto, D., et al., *Restoring Upper Limb Function by Combined Repetitive Transcranial Magnetic Stimulation and Occupational Therapy in Patients with Chronic Stroke: A Stratified Analysis Factoring the Severity of Motor Paralysis using a Multicenter Cohort Study Database.* 2022.
405. Sakamoto, D., et al., *Study Protocol for a Multicenter, Randomized Controlled Trial to Improve Upper Extremity Hemiparesis in Chronic Stroke Patients by One-to-One Training (NEURO®) with Repetitive Transcranial Magnetic Stimulation.* Journal of Clinical Medicine, 2022. **11**(22): p. 6835.
406. Du, J., et al., *Effects of high-and low-frequency repetitive transcranial magnetic stimulation on motor recovery in early stroke patients: evidence from a randomized controlled trial with clinical, neurophysiological and functional imaging assessments.* NeuroImage: Clinical, 2019. **21**: p. 101620.
407. Bonin Pinto, C., et al., *Combining Fluoxetine and rTMS in Poststroke Motor Recovery: A Placebo-Controlled Double-Blind Randomized Phase 2 Clinical Trial.* Neurorehabil Neural Repair, 2019. **33**(8): p. 643-655.
408. Kim, E., et al., *Auditory cortex hyperconnectivity before rTMS is correlated with tinnitus improvement.* Neurología, 2021.
409. Bae, S.H., et al., *Comparison of Treatment Outcome between Repetitive Transcranial Magnetic Stimulation (rTMS) and Transcutaneous Direct Current Stimulation (tDCS) in Intractable Tinnitus.* J Clin Med, 2021. **10**(4).
410. Ring, A., et al., *A Chart Review to Assess the Response of Veterans Suffering from Tinnitus to Alpha Burst Transcranial Magnetic Stimulation.* International Tinnitus Journal, 2020. **24**: p. 9.
411. Landgrebe, M., et al., *1-Hz rTMS in the treatment of tinnitus: A sham-controlled, randomized multicenter trial.* Brain Stimul, 2017.
412. Lehner, A., et al., *Triple-site rTMS for the treatment of chronic tinnitus: a randomized controlled trial.* Sci Rep, 2016. **6**: p. 22302.
413. Kreuzer, P.M., et al., *A proof-of-concept study on the combination of repetitive transcranial magnetic stimulation and relaxation techniques in chronic tinnitus.* J Neural Transm (Vienna), 2016. **123**(10): p. 1147-57.
414. Langguth, B., et al., *Efficacy of different protocols of transcranial magnetic stimulation for the treatment of tinnitus: Pooled analysis of two randomized controlled studies.* World J Biol Psychiatry, 2014. **15**(4): p. 276-85.
415. Lehner, A., et al. *Comparing single-site with multisite rTMS for the treatment of chronic tinnitus ñ clinical effects and neuroscientific insights - study protocol for a randomized controlled trial.* 2013.

416. Tringali, S., et al., *Repetitive transcranial magnetic stimulation noise levels: methodological implications for tinnitus treatment*. *Otol Neurotol*, 2012. **33**(7): p. 1156-60.
417. Litre, C.F., et al., *[Feasibility of auditory cortical stimulation for the treatment of tinnitus. Three case reports]*. *Neurochirurgie*, 2010. **56**(4): p. 303-8.
418. Yang, S., et al., *Brain alterations in patients with intractable tinnitus before and after rTMS: A resting-state functional magnetic resonance imaging study*. *Clinical Neurology and Neurosurgery*, 2023. **227**: p. 107664.
419. Koski, L., et al., *Noninvasive brain stimulation for persistent postconcussion symptoms in mild traumatic brain injury*. *J Neurotrauma*, 2015. **32**(1): p. 38-44.
420. Zrenner, C., et al., *Corticospinal excitability is highest at the early rising phase of sensorimotor micro-rhythm*. *Neuroimage*, 2023. **266**: p. 119805.
421. Hernandez-Pavon, J.C., et al., *TMS combined with EEG: Recommendations and open issues for data collection and analysis*. *Brain Stimulation*, 2023.
422. harquel, s. and F. Hummel, *Brain oscillatory modes as a proxy of stroke recovery*. *medRxiv*, 2023: p. 2023.02. 01.23285324.
423. Bailey, N., et al., *Concurrent Transcranial Magnetic Stimulation and Electroencephalography Measures are Associated with Antidepressant Response from rTMS Treatment for Depression*. *medRxiv*, 2023: p. 2023.02. 10.23285794.
424. Bai, Z., J.J. Zhang, and K.N. Fong, *Immediate effects of intermittent theta burst stimulation on primary motor cortex in stroke patients: A concurrent TMS-EEG study*. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 2023.
425. Bai, Y., et al., *Cortical reactivity to transcranial magnetic stimulation predicts risk of post-stroke delirium*. *Clinical Neurophysiology*, 2023. **148**: p. 97-108.
426. Perellón-Alfonso, R., et al., *Prefrontal reactivity to TMS perturbation as a toy model of mental health outcomes during the COVID-19 pandemic*. *Heliyon*, 2022: p. e10208.
427. Passera, B., et al., *Exploring the spatial resolution of TMS-EEG coupling on the sensorimotor region*. *NeuroImage*, 2022: p. 119419.
428. Mijancos Martínez, G., et al. *Improving the quality of combined TMS-EEG neural recordings: artefact removal and time analysis*. in *XL Congreso Anual de la Sociedad Española de Ingeniería Biomédica CASEIB 2022: libro de actas*. 2022. Sociedad Española de Ingeniería Biomédica (SEIB).
429. Masouleh, M.A., *Optimization of Transcranial Magnetic Stimulation (TMS) parameters using concurrent TMS-EEG and TMS-fMRI*, in *Department of General Psychology*. 2022, University of Padova. p. 53.
430. Bai, Y., et al., *Cortical reactivity to transcranial magnetic stimulation predicts risk of post-stroke delirium*. *Clinical Neurophysiology*, 2022.
431. Karabanov, A.N., et al., *Does pericentral mu-rhythm “power” corticomotor excitability? – A matter of EEG perspective*. *Brain Stimulation*, 2021. **14**(3): p. 713-722.
432. Biabani, M., et al., *The correspondence between EMG and EEG measures of changes in cortical excitability following transcranial magnetic stimulation*. *J Physiol*, 2021. **599**(11): p. 2907-2932.
433. Kroczek, L.O.H., et al., *Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG*. *Cortex*, 2019. **115**: p. 86-98.

434. Ort, A., et al., *TMS-EEG and resting-state EEG applied to Altered States of Consciousness: Oscillations, Complexity, and Phenomenology*. iScience.
435. Murphy, A.C., et al., *A structurally informed model for modulating functional connectivity*. arXiv preprint arXiv:2208.11631, 2022.
436. Mizutani-Tiebel, Y., et al., *Concurrent TMS-fMRI: Technical Challenges, Developments, and Overview of Previous Studies*. Front Psychiatry, 2022. **13**: p. 825205.
437. Luber, B., et al., *Using diffusion tensor imaging to effectively target TMS to deep brain structures*. NeuroImage, 2022. **249**: p. 118863.
438. Klein, V.S., *Modeling and measuring cardiac magnostimulation*, in *Combined Faculty of Mathematics, Engineering and Natural Sciences*. 2022, Heidelberg University. p. 126.
439. Goldstein, S., F. Rafiei, and D. Rahnev, *3D-printed stand, timing interface, and coil localization tools for concurrent TMS-fMRI experiments*. arXiv preprint arXiv:2204.04786, 2022.
440. Ge, R., et al., *Predictive Value of Acute Neuroplastic Response to rTMS in Treatment Outcome in Depression: A Concurrent TMS-fMRI Trial*. American Journal of Psychiatry, 2022. **179**(7): p. 500-508.
441. Caparelli, E.C., et al., *High-Frequency Transcranial Magnetic Stimulation Combined With Functional Magnetic Resonance Imaging Reveals Distinct Activation Patterns Associated With Different Dorsolateral Prefrontal Cortex Stimulation Sites*. Neuromodulation: Technology at the Neural Interface, 2022.
442. Sydnor, V.J., et al., *Cortical-subcortical structural connections support transcranial magnetic stimulation engagement of the amygdala*. bioRxiv, 2021: p. 2021.11.12.468411.
443. Oathes, D.J., et al., *Resting fMRI-guided TMS results in subcortical and brain network modulation indexed by interleaved TMS/fMRI*. Experimental Brain Research, 2021. **239**(4): p. 1165-1178.
444. Jackson, J.B., et al., *Concurrent neuroimaging and neurostimulation reveals a causal role for dlPFC in coding of task-relevant information*. Commun Biol, 2021. **4**(1): p. 588.
445. Alamian, G., et al., *Implementation of a TMS-fMRI system: A primer*. bioRxiv, 2021.
446. Peters, J.C., et al., *Concurrent human TMS-EEG-fMRI enables monitoring of oscillatory brain state-dependent gating of cortico-subcortical network activity*. Commun Biol, 2020. **3**(1): p. 40.
447. Lee, H.-J., et al., *Hemodynamic changes in response to excitatory and inhibitory modulations by transcranial magnetic stimulation at the human sensorimotor cortex*. bioRxiv, 2020.
448. Hermiller, M.S., et al., *Evidence for immediate enhancement of hippocampal memory encoding by network targeted theta-burst stimulation during concurrent fMRI*. The Journal of Neuroscience, 2020. **40**(37): p. 14.
449. Caparelli, E.C., T. Zhai, and Y. Yang, *Simultaneous Transcranial Magnetic Stimulation and Functional Magnetic Resonance Imaging: Aspects of Technical Implementation*. Front Neurosci, 2020. **14**: p. 554714.
450. Bukowski, H., et al., *When differences matter: rTMS/fMRI reveals how differences in dispositional empathy translate to distinct neural underpinnings of self-other distinction in empathy*. Cortex, 2020. **128**: p. 143-161.

451. Tang, Y., et al., *Dynamic Functional Connectivity Within the Fronto-Limbic Network Induced by Intermittent Theta-Burst Stimulation: A Pilot Study*. Front Neurosci, 2019. **13**: p. 944.
452. Oathes, D.J., et al., *Individualized non-invasive brain stimulation engages the subgenual anterior cingulate and amygdala*. BioRxiv, 2018.
453. Leitão, J., et al., *Comparing TMS perturbations to occipital and parietal cortices in concurrent TMS-fMRI studies-Methodological considerations*. PloS one, 2017. **12**(8): p. e0181438-e0181438.
454. Leitao, J., et al., *Effects of parietal TMS on visual and auditory processing at the primary cortical level -- a concurrent TMS-fMRI study*. Cereb Cortex, 2013. **23**(4): p. 873-84.
455. Moisa, M., et al., *Uncovering a context-specific connectional fingerprint of human dorsal premotor cortex*. J Neurosci, 2012. **32**(21): p. 7244-52.
456. Cerri, D.H., et al., *Distinct neurochemical influences on fMRI response polarity in the striatum*. bioRxiv, 2023: p. 2023.02. 20.529283.
457. Tik, M., et al., *Acute TMS/fMRI response explains offline TMS network effects – An interleaved TMS-fMRI study*. NeuroImage, 2022: p. 119833.
458. Ruiyang Ge, Ph.D. , et al., *Predictive Value of Acute Neuroplastic Response to rTMS in Treatment Outcome in Depression: A Concurrent TMS-fMRI Trial*. American Journal of Psychiatry, 2022. **179**(7): p. 500-508.
459. Machner, B., et al., *Resting-state functional connectivity in the attention networks is not altered by offline theta-burst stimulation of the posterior parietal cortex or the temporo-parietal junction as compared to a vertex control site*. Neuroimage: Reports, 2021. **1**(2): p. 100013.
460. Yildiz, F.G. and C.M. Temucin, *Multimodal integration and modulation of visual and somatosensory inputs on the corticospinal excitability*. Neurophysiologie Clinique, 2023. **53**(3): p. 102842.
461. Yang, Q., et al., *Effects of the Left M1 iTBS on Brain Semantic Network Plasticity in Patients with Post-Stroke Aphasia: A Preliminary Study*. JIN, 2023. **22**(1).
462. Xu, B., et al., *Comparing conventional treatment, single-target rTMS, or dual-target rTMS for the treatment of post-stroke cognitive impairment — clinical effects and neuroscientific insights: study protocol for a randomized controlled trial*. Trials, 2023. **24**(1): p. 478.
463. Wesolek, A., P. Daroszewski, and J. Huber, *Neurophysiological Evaluation of the Functional State of Muscular and Nervous Systems in High-Maneuvering Jet Fighters*. Applied Sciences, 2023. **13**(2).
464. Terpstra, A.R., et al., *Cognitive-affective processes and suicidality in response to repetitive transcranial magnetic stimulation for treatment resistant depression*. J Affect Disord, 2023. **321**: p. 182-190.
465. Tang, Y., et al., *Visuospatial Learning Selectively Enhanced by Personalized Transcranial Magnetic Stimulation over Parieto-Hippocampal Network among Patients at Clinical High-Risk for Psychosis*. Schizophrenia Bulletin, 2023.
466. Tan, V., et al., *Subgenual cingulate connectivity as a treatment predictor during low-frequency right dorsolateral prefrontal rTMS: A concurrent TMS-fMRI study*. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 2023. **16**(4): p. 1165-1172.

467. Szymankiewicz-Szukała, A., et al., *Temporary Occlusion of Common Carotid Arteries Does Not Evoke Total Inhibition in the Activity of Corticospinal Tract Neurons in Experimental Conditions*. Biomedicines, 2023. **11**(5): p. 1287.
468. Seybert, C., et al., *Replicability of motor cortex-excitability modulation by intermittent theta burst stimulation*. Clinical Neurophysiology, 2023.
469. Sasaki, N., et al., *Effect of Repetitive Transcranial Magnetic Stimulation on Long Coronavirus Disease 2019 with Fatigue and Cognitive Dysfunction*. Progress in Rehabilitation Medicine, 2023. **8**: p. 20230004.
470. Sakurai, Y., et al., *Improved language function for post-stroke aphasia in the long term following repeated repetitive transcranial magnetic stimulation and intensive speech-language-hearing therapy: a case report*. Journal of Medical Case Reports, 2023. **17**(1): p. 285.
471. Sakamoto, D., et al., *Upper Limb Function Recovery by Combined Repetitive Transcranial Magnetic Stimulation and Occupational Therapy in Patients with Chronic Stroke According to Paralysis Severity*. Brain Sciences, 2023. **13**(2): p. 284.
472. Ross, J.M., et al., *Neural effects of TMS trains on the human prefrontal cortex*. bioRxiv, 2023: p. 2023.01. 30.526374.
473. Roebruck, F., *Der Einfluss GABA-B-Rezeptor vermittelter kortikaler Aktivität im dorsolateralen Präfrontalkortex in Abhängigkeit von Trait-Angst und Beanspruchung des emotionalen Arbeitsgedächtnisses*. 2023, Universität zu Köln.
474. Regmi, B., et al., *Diaphragm Muscle Weakness Might Explain Exertional Dyspnea Fifteen Months After Hospitalization for COVID-19*. American Journal of Respiratory and Critical Care Medicine, 2023(ja).
475. Ramos, M.R.F., et al., *Theta-Burst Stimulation 3 Times a Day for Treatment-Resistant Depression—A New Protocol: Case Series*. The Journal of ECT, 2023: p. 10.1097/YCT.0000000000000928.
476. Qin, Y., et al., *Cerebral blood flow changes induced by high-frequency repetitive transcranial magnetic stimulation combined with cognitive training in Alzheimer's disease*. Frontiers in Neurology, 2023. **14**.
477. Price, R.B., et al., *Resting-State Functional Connectivity Differences Following Experimental Manipulation of the Orbitofrontal Cortex in Two Directions via Theta-Burst Stimulation*. Clin Psychol Sci, 2023. **11**(1): p. 77-89.
478. Pomelova, E., et al., *Trans-spinal direct current stimulation affects the corticospinal system but does not affect motor skills*. 2023.
479. Perikova, E.I., et al., *The Specific Influence of Continuous Theta-Burst Stimulation of the Primary Motor Cortex on Novel Vocabulary Acquisition in Different Learning Environments*. Human Physiology, 2023. **49**(3): p. 289-297.
480. Payette, O., et al., *Intravenous ketamine for treatment-resistant depression patients who have failed to respond to transcranial magnetic stimulation: A case series*. Journal of Affective Disorders, 2023. **333**: p. 18-20.
481. Passera, B., et al., *Multi-scale and cross-dimensional TMS mapping: A proof of principle in patients with Parkinson's disease and deep brain stimulation*. Frontiers in Neuroscience, 2023. **17**.

482. Pallanti, S., et al., *Efficacy of Continuous Theta Burst Stimulation to the Pre-supplementary Motor Area in Gambling Disorder: a Randomized Double-Blind Controlled Trial*. International Journal of Mental Health and Addiction, 2023.
483. Osipowicz, K., et al., *Real world demonstration of hand motor mapping using the structural connectivity atlas*. Clinical Neurology and Neurosurgery, 2023. **228**: p. 107679.
484. Numssen, O., C.L. van der Burght, and G. Hartwigsen, *Revisiting the focality of non-invasive brain stimulation – Implications for studies of human cognition*. Neuroscience & Biobehavioral Reviews, 2023. **149**: p. 105154.
485. Murphy, D., et al., *Experimental comparison of loudness and brain activation of quiet and conventional TMS coils*. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 2023. **16**(1): p. 223.
486. Mijancos-Martinez, G., et al., *Cortical inhibition on TMS-EEG: interstimulus interval effect on short-interval paired-pulse*. 2023.
487. Martin, A., T.J. Lane, and T.-Y. Hsu, *DLPFC-PPC-cTBS Effects on Metacognitive Awareness*. Cortex, 2023.
488. Manganotti, P., et al., *Deficient GABAergic and glutamatergic excitability in the motor cortex of patients with long-COVID and cognitive impairment*. Clinical Neurophysiology, 2023.
489. Magnuson, J., et al., *Neuromodulatory effects and reproducibility of the most widely used repetitive transcranial magnetic stimulation protocols*. PLOS ONE, 2023. **18**(6): p. e0286465.
490. Lin, T.Y., et al., *Case report: Dysphagia after COVID-19 infection in a stroke patient-Is neurostimulation a potential management?* Front Neurol, 2023. **14**: p. 1126390.
491. Lin, B.-S., et al., *Effectiveness of Repetitive Transcranial Magnetic Stimulation Combined with Transspinal Electrical Stimulation on Corticospinal Excitability for Individuals with Incomplete Spinal Cord Injury: A Pilot Study*. 2023.
492. Li, W., et al., *TMS-EEG signatures of facilitated cognitive reappraisal in emotion regulation by left ventrolateral prefrontal cortex stimulation*. Neuropsychologia, 2023: p. 108560.
493. Lewis, C.J., et al., *Investigation of Resting Motor Threshold Variability in Schizophrenia Patients during Transcranial Magnetic Stimulation*. 2023.
494. Leszczyńska, K. and J. Huber, *The Role of Transcranial Magnetic Stimulation, Peripheral Electrotherapy, and Neurophysiology Tests for Managing Incomplete Spinal Cord Injury*. Biomedicines, 2023. **11**(4): p. 1035.
495. Lee, H.H., et al., *Retreatment with theta burst stimulation (TBS) for late life depression (LLD): A retrospective chart review*. J Psychiatr Res, 2023. **164**: p. 454-457.
496. Lee, H.-J., et al., *Design of coil holder for the improved maneuvering in concurrent TMS-MRI*. Brain Stimulation, 2023.
497. Lauber, B. and W. Taube, *Probing the link between cortical inhibitory and excitatory processes and muscle fascicle dynamics*. Scientific Reports, 2023. **13**(1): p. 4577.
498. Koponen, M., *Mechanical Modeling of Multi-coil Transducers for Brain Stimulation in High Static Magnetic Fields*, in *Medical Physics and Biophysics*. 2023, University of Helsinki.
499. Koo, M., *The potential of transcranial magnetic stimulation as a treatment for depression during pregnancy*. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 2023.

500. Kanig, C., et al., *Limited evidence for validity and reliability of non-navigated low and high frequency rTMS over the motor cortex*. medRxiv, 2023: p. 2023.01. 24.23284951.
501. Kamamuta, A., et al., *Fatigue Potentially Reduces the Effect of Transcranial Magnetic Stimulation on Depression Following COVID-19 and Its Vaccination*. Vaccines, 2023. **11**(7): p. 1151.
502. Jing, Y., et al., *Modeling the Effects of Transcranial Magnetic Stimulation on Spatial Attention*. bioRxiv, 2023.
503. Hobot, J., et al., *Continuous Theta Burst Stimulation to the left anterior medial prefrontal cortex influences metacognitive efficiency*. NeuroImage, 2023: p. 119991.
504. Harrington, R., et al., *Preliminary evidence of prolonged timing effects of theta-burst stimulation in the reading system*. 2023.
505. Gill, J., et al., *Repetitive transcranial magnetic stimulation: Course and early prediction of response in depression*. Journal of Psychiatric Research, 2023. **157**: p. 108-111.
506. Friehs, M.A., et al., *Effects of 1 Hz offline TMS on performance in the stop-signal game*. 2023.
507. Elbau, I.G., et al., *Functional connectivity mapping for rTMS target selection in depression*. American Journal of Psychiatry, 2023. **180**(3): p. 230-240.
508. Egger, S., et al., *Short-term balance consolidation relies on the primary motor cortex: a rTMS study*. Sci Rep, 2023. **13**(1): p. 5169.
509. Dörre, S.K., *EEG-triggered TMS of dorsomedial prefrontal cortex selectively modulates working memory performance depending on the phase of endogenous theta oscillation*, in *Medizinischen Fakultät der Eberhard Karls Universität zu Tübingen*. 2023.
510. Delon-Martin, C., et al., *Neural correlates of pain-autonomic coupling in patients with complex regional pain syndrome treated by repetitive transcranial magnetic stimulation of the motor cortex*. Neuromodulation: Technology at the Neural Interface, 2023.
511. Dantas, A.M., et al., *The functional relevance of right DLPFC and VMPFC in risk-taking behavior*. Cortex, 2023.
512. Daneshzand, M., et al., *Experimental Verification of a Computational Real-Time Neuronavigation System for Multichannel Transcranial Magnetic Stimulation*, in *Brain and Human Body Modelling 2021*. 2023, Springer. p. 61-73.
513. Czarnecki, P., et al., *The Usefulness of Motor Potentials Evoked Transvertebrally at Lumbar Levels for the Evaluation of Peroneal Nerve Regeneration after Experimental Repair in Rats*. Journal of Personalized Medicine, 2023. **13**(3): p. 438.
514. Chi, S., et al., *Sensorimotor network connectivity correlates with motor improvement after repetitive transcranial magnetic stimulation in patients with Parkinson's disease*. Parkinsonism & Related Disorders, 2023. **106**: p. 105218.
515. Chang, C.-S., et al., *Synergistic efficacy of repetitive peripheral magnetic stimulation on central intermittent theta burst stimulation for upper limb function in patients with chronic stroke: a double-blinded, randomized controlled trial*. Research Square, 2023.
516. Cerins, A., *Optimising theta burst stimulation frequency—rationale and basic implementation*. 2023.

517. Cecic, S., et al., *Is individual variability in electrical field distribution related to demographic factors or clinical outcomes for treatment-resistant depression treated with rTMS ?*, in *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*. 2023, Elsevier. p. 337.
518. Castro, J., M. Swash, and M. de Carvalho, *The cutaneous silent period as a measure of upper motor neuron dysfunction in amyotrophic lateral sclerosis*. *Neurophysiologie Clinique*, 2023. **53**(4): p. 102843.
519. Castelhana, J., et al. *A neurostimulation and multimodal molecular imaging study of the interhemispheric inhibition/excitation imbalance in stroke*. in *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*. 2023. Elsevier.
520. Cano, M., et al., *Brain volumetric correlates of electroconvulsive therapy versus transcranial magnetic stimulation for treatment-resistant depression*. *Journal of Affective Disorders*, 2023.
521. Boux, I.P. and F. Pulvermüller, *Does the right temporo-parietal junction play a role in processing indirect speech acts? A transcranial magnetic stimulation study*. *Neuropsychologia*, 2023: p. 108588.
522. Bengtsson, J., A. Frick, and M. Gingnell, *Blinding integrity of dorsomedial prefrontal intermittent theta burst stimulation in depression*. *International Journal of Clinical and Health Psychology*, 2023. **23**(4): p. 100390.
523. Barquero, C., et al., *Human microsaccade cueing modulation in visual-and memory-delay saccade tasks after theta burst transcranial magnetic stimulation over the frontal eye field*. *Neuropsychologia*, 2023: p. 108626.
524. Barnes, R., et al., *Equal remission rates and reduced length of hospital stay with twice-daily repetitive transcranial magnetic stimulation (rTMS) for major depression – A large naturalistic retrospective cohort association study*. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 2023: p. 110820.
525. Barboza, V.R., et al., *Parkinson disease-related pains are not equal: clinical, somatosensory and cortical excitability findings in individuals with nociceptive pain*. *The Journal of Pain*, 2023.
526. Barbosa, L.M., et al., *Corticomotor excitability is altered in central neuropathic pain compared with non-neuropathic pain or pain-free patients*. *Neurophysiologie Clinique*, 2023. **53**(3): p. 102845.
527. Bakulin, I., et al., *Effects of the metaplasticity-based theta-burst transcranial stimulation protocol on working memory performance*. *Bulletin of RSMU*, 2023. **2**.
528. Bai, Z., J.J. Zhang, and K.N.K. Fong, *Intracortical and intercortical networks in patients after stroke: a concurrent TMS-EEG study*. *Journal of NeuroEngineering and Rehabilitation*, 2023. **20**(1): p. 100.
529. Almheiri, E., et al., *Effectiveness of Repetitive Transcranial Magnetic Stimulation in the Treatment of Depression in the Elderly: A Retrospective Natural Analysis*. *Journal of Clinical Medicine*, 2023. **12**(14): p. 4748.
530. Aberra, A.S., et al., *Rapid estimation of cortical neuron activation thresholds by transcranial magnetic stimulation using convolutional neural networks*. *Neuroimage*, 2023. **275**: p. 120184.