



Hertfordshire and
West Essex Integrated
Care System



Hertfordshire and
West Essex
Integrated Care Board

Evidence Based Intervention

Transcranial Magnetic Stimulation

(TMS and rTMS)

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Policy: Transcranial Magnetic Stimulation (TMS and rTMS)

The Hertfordshire & West Essex ICB does not fund Transcranial Magnetic Stimulation (TMS) or associated treatment modalities such as repetitive TMS (rTMS) for any indication, including but not limited to severe/treatment resistant depression and headache. This includes circumstances where there may be contraindications for alternative treatment options, such as individuals unable to tolerate general anaesthesia for Electroconvulsive therapy (ECT).

Rationale

The Hertfordshire and West Essex ICB has determined Transcranial Magnetic Stimulation to be of low priority for funding. Current commissioned treatment pathways for severe/treatment resistant depression include non-pharmaceutical treatment options such as Electroconvulsive therapy (ECT) and psychological therapies.

Current guidance and the strongest existing evidence supports the use of ECT as a treatment option for treatment resistant/severe depression (unless contraindicated) and the use of psychological therapies. While some evidence suggest that rTMS may be more effective than ECT for some patients with treatment resistant depression, other evidence suggests ECT may be more effective when compared against rTMS in patients with any type of depression, and result in a higher clinical response and greater likelihood of remission. Guidance does not support the use of rTMS over ECT.

Existing evidence does not currently support the use of rTMS or TMS treatment for any other condition.

Patients who are not eligible for treatment under this policy may be considered on an individual basis where their GP or consultant believes exceptional circumstances exist that warrant deviation from the rule of this policy. Individual cases will be reviewed as per the ICB policy.



References

1. Amatya B, Khan F, La Mantia L, Demetrios M, Wade DT. Non pharmacological interventions for spasticity in multiple sclerosis. Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD009974. DOI: 10.1002/14651858.CD009974.pub2. Accessed 10 December 2020.
2. Chen R, Spencer DC, Weston J, Nolan SJ. Transcranial magnetic stimulation for the treatment of epilepsy. Cochrane Database of Systematic Reviews 2016, Issue 8. Art. No.: CD011025. DOI: 10.1002/14651858.CD011025.pub2. Accessed 10 December 2020.
3. Dougall N, Maayan N, Soares-Weiser K, McDermott LM, McIntosh A. Transcranial magnetic stimulation (TMS) for schizophrenia. Cochrane Database of Systematic Reviews 2015, Issue 8. Art. No.: CD006081. DOI: 10.1002/14651858.CD006081.pub2. Accessed 10 December 2020.
4. Fang J, Zhou M, Yang M, Zhu C, He L. Repetitive transcranial magnetic stimulation for the treatment of amyotrophic lateral sclerosis or motor neuron disease. Cochrane Database of Systematic Reviews 2013, Issue 5. Art. No.: CD008554. DOI: 10.1002/14651858.CD008554.pub3. Accessed 10 December 2020.
5. Gertler P, Tate RL, Cameron ID. Non-pharmacological interventions for depression in adults and children with traumatic brain injury. Cochrane Database of Systematic Reviews 2015, Issue 12. Art. No.: CD009871. DOI: 10.1002/14651858.CD009871.pub2. Accessed 10 December 2020.
6. Hao Z, Wang D, Zeng Y, Liu M. Repetitive transcranial magnetic stimulation for improving function after stroke. Cochrane Database of Systematic Reviews 2013, Issue 5. Art. No.: CD008862. DOI: 10.1002/14651858.CD008862.pub2. Accessed 10 December 2020.
7. Kumbargere Nagraj S, George RP, Shetty N, Levenson D, Ferraiolo DM, Shrestha A. Interventions for managing taste disturbances. Cochrane Database of Systematic Reviews 2017, Issue 12. Art. No.: CD010470. DOI: 10.1002/14651858.CD010470.pub3. Accessed 10 December 2020.
8. Lefaucheur JP, Aleman A, Baeken C, et al. Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): An update (2014-2018) [published correction appears in Clin Neurophysiol. 2020 May;131(5):1168-1169]. Clin Neurophysiol. 2020;131(2):474-528. doi:10.1016/j.clinph.2019.11.002
9. Li H, Wang J, Li C, Xiao Z. Repetitive transcranial magnetic stimulation (rTMS) for panic disorder in adults. Cochrane Database of Systematic Reviews 2014, Issue 9. Art. No.: CD009083. DOI: 10.1002/14651858.CD009083.pub2. Accessed 10 December 2020.
10. Meng Z, Liu S, Zheng Y, Phillips JS. Repetitive transcranial magnetic stimulation for tinnitus. Cochrane Database of Systematic Reviews 2011, Issue 10. Art. No.: CD007946. DOI: 10.1002/14651858.CD007946.pub2. Accessed 10 December 2020.
11. NICE Repetitive transcranial magnetic stimulation for depression. Interventional procedures guidance [IPG542]. Published date: 16 December 2015. Available at <https://www.nice.org.uk/guidance/ipg542>
12. NICE Transcranial magnetic stimulation for obsessive-compulsive disorder Interventional procedures guidance [IPG676]. Published date: 05 August 2020. Available at <https://www.nice.org.uk/guidance/ipg676>
13. NICE Transcranial magnetic stimulation for treating and preventing migraine Interventional procedures guidance [IPG477]. Published date: 23 January 2014. Available at <https://www.nice.org.uk/guidance/ipg477>
14. NICE Depression in adults: recognition and management Clinical guideline [CG90]. Published date: 28 October 2009. Available at <https://www.nice.org.uk/guidance/cg90/chapter/Recommendations#enhanced-care-for-depression>
15. NICE Repetitive transcranial magnetic stimulation for depression Interventional procedures guidance [IPG542]. Published date: 16 December 2015. Available at <https://www.nice.org.uk/guidance/ipg542>.
16. O'Connell NE, Marston L, Spencer S, DeSouza LH, Wand BM. Non-invasive brain stimulation techniques for chronic pain. Cochrane Database of Systematic Reviews 2018, Issue 4. Art. No.: CD008208. DOI: 10.1002/14651858.CD008208.pub5. Accessed 10 December 2020.
17. Rachid F. Maintenance repetitive transcranial magnetic stimulation (rTMS) for relapse prevention in with depression: A review. Psychiatry Res. 2018 Apr;262:363-372. doi: 10.1016/j.psychres.2017.09.009. Epub 2017 Sep 19. PMID: 28951141
18. Rodriguez-Martin JL, Barbanj JM, Pérez V, Sacristan M. Transcranial magnetic stimulation for the treatment of obsessive-compulsive disorder. Cochrane Database of Systematic Reviews 2003, Issue 2. Art. No.: CD003387. DOI: 10.1002/14651858.CD003387. Accessed 10 December 2020.
19. Rodriguez-Martin JL, Barbanj JM, Schlaepfer TE, Clos SSC, Pérez V, Kulisevsky J, Gironell A. Transcranial magnetic stimulation for treating depression. Cochrane Database of Systematic Reviews 2002, Issue 2. Art. No.: CD003493. DOI: 10.1002/14651858.CD003493. Accessed 10 December 2020.
20. Senova S, Cotovio G, Pascual-Leone A, Oliveira-Maia AJ. Durability of antidepressant response to repetitive transcranial magnetic stimulation: Systematic review and meta-analysis. Brain Stimul. 2019;12(1):119-128. doi:10.1016/j.brs.2018.10.001




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