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| Title of the study | DETECT - rTMS/CBT as next step in antidepressant non-responders. A randomized comparison with current stepped care approaches to major depressive disorder |
| Short summary of the study | In the DETECT trial we investigate the (cost-)effectiveness of rTMS as a treatment for depression compared to the next pharmacological step in de treatment algorithm. Both groups also receive cognitive behavioral therapy. The trial consists of 8 weeks of treatment, followed by follow-up assessments at 4 and 6 months. We expect rTMS to be more (cost-)effective than medication in reducing depressive symptoms.<br>This trial is performed at multiple centers across the country. |
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| Co-investigators + Institutes | Martijn Arns, BrainClinics te Nijmegen<br>Iris van Oostrom, neurocare te Nijmegen, Arnhem, Den Haag en Eindhoven<br>Eric van Exel, GGZ inGeest/VUmc te Amsterdam<br>Hans van Mierlo, St. Antonius Ziekenhuis te Nieuwegein<br>Dieuwertje de Waardt, Elisabeth TweeSteden Ziekenhuis te Tilburg<br>Jan Spijker, Pro Persona te Arnhem en Nijmegen |
| Study period | 08-2019 - 11-2022 |
| Status of project | Recruitment ongoing |
| Funding | ZonMw |
| Number of participating centers | 6 |
| Link to study website | www.detectonderzoek.nl |
| Link to trial registration | https://www.trialregister.nl/trial/7628 |
| Research question(s) | Is rTMS more effective in reducing depressive symptoms compared to treatment as usual?<br>Is rTMS more cost-effective compared to treatment as usual?<br>What are the effects of rTMS compared to treatment as usual on symptoms associated with depression, such as but not limited to anhedonia, rumination and sleep?<br>What are the effects of expectations regarding treatment on treatment outcomes? |
| Study population (disorder) | Unipolar depression |
| Total sample size (as in METC protocol) | 132 |
| Neuromodulation modality | rTMS (including TBS) |
| TMS hardware | MagStim, MagVenture, Deymed |
| Coil type | Figure-of-eight |
| Stimulation target | Left DLPFC |
| Method used for coil placement | Beam F3/F4 |
| Coil orientation | 45 degrees |
| Frequency | 10 Hz |
| Inter-train interval | 25 |

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| Train duration | 5 |
| Number of pulses per session | 3000 |
| % of resting motor threshold | 120 |
| Other relevant rTMS parameters (e.g. priming) | n.a. |
| If TMS is NOT part of your control condition, please describe your control condition in the box below. Otherwise, please fill in the TMS related questions. Please also use this field in case of no control condition or multiple control conditions. | Control condition consists of treatment as usual (pharmacological switch or augmentation) |
| Adjuvant treatment | Cognitive therapy, Medication |
| Number of sessions | 25 |
| Frequency of sessions | 4, 4, 4, 3, 3, 3, 2, 2x per week |
| Primary outcome | Change in depression severity (based on HDRS-17) |
| Secondary outcomes | Response, remission, QALYs |
| Covariates | age, gender, depression severity |