**Supplementary material 1: Flow chart of the study according to the CONSORT statement**

Assessed for eligibility (n=41)

* Excluded (n=17)
* Dropped out after initial assessment (n=5)

Allocation

Allocated to active dTMS intervention (n=19)

* Received 10 sessions of high frequency active dTMS (n=15)
* Dropped out before completing 10 sessions (n=4)

Assessment & Analysis

* Assessment done on Y-BOCS, HAM-A & HAM-D at baseline and after 10sessions of dTMS (n=15)
* fMRI done at baseline and after 10 sessions of dTMS
* Analysed (n=15)

**Supplementary Material 2: Details of the drug treatment of the study participants**

|  |  |
| --- | --- |
| Patient Number | Drugs with Dosages |
| 123456789101112131415 | Sertraline 200mg, Buspirone 10mgFluoxetine 60mgFluoxetine 60mg, Clomipramine 75mgSertraline 200mg, Fluvoxamine 150mgFluoxetine 80mg, Clomipramine 100mgParoxetine 25mgSertraline 100mgFluvoxamine 200mg, Clomipramine 50mgFluvoxamine 100mgFluoxetine 80mg, Clomipramine 50mgFluoxetine 40mgClomipramine 125mgFluoxetine 60mg, Lorazepam 4mgFluoxetine 80mgFluvoxamine 150mg, Clonazepam 0.25mg |

**Supplementary material 3: Regions showing decreased activation during the Stroop task post dTMS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Region | Number of Voxels | *x* | *y* | *z* |
| Left caudate | 36 | -24 | -2 | 30 |
| Left cerebellum | 20 | -16 | -30 | -32 |
| Right cerebellum | 12 | 18 | -26 | -32 |
| Left SMA | 8 | 0 | -12 | 48 |
| Left PrG | 6 | -30 | -24 | 52 |

Random effects mode, paired-samples t-test, p<.0001, uncorrected. SMA- supplementary motor area,

PrG- precentral gyrus