

NON-INVASIVE BRAIN STIMULATION IN PSYCHIATRY: THE CASE OF TMS

Typology: Masterclass

Event Dates: September 22nd, 23rd 2022

City: Rome, Italy

Venue: Hotel Barceló Aran Mantegna

Participants: 100 international psychiatric specialists

Official language: English

Chair: *Prof. Stefano Pallanti*

Scientific sponsorship: ECNP thematic research network on Neurostimulation

Sponsor: Recordati

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SCIENTIFIC RATIONALE

Non-invasive brain stimulation (NIBS) techniques represent widely used physical therapies in neurology and psychiatry. Among the most widely adopted are those based on the use of magnetic fields (TMS, Transcranial Magnetic Stimulation) or electromagnetic fields (tDCS, transcranial Direct Current Stimulation) applied to the scalp; in both cases, brain activity is modulated in discrete areas below the site of delivery through activation or inhibition of the excitability threshold or neuronal discharge.

Both TMS and tDCS have few contraindications, few side effects and validated efficacy across a wide range of disorders (depression, OCD, chronic pain, Parkinson's disease, motor stroke, addiction, etc.): for these disorders the efficacy level is very high (level A) and where this is not reached there are still measures of approvals from regulatory bodies (FDA, NICE, etc.). For depression and OCD, TMS therapy is approved for drug-resistant disorders, but this does not mean that TMS is an alternative to pharmacological treatment; if anything, in many cases it represents an excellent support to improve the outcomes in combination with pharmacological therapy. Regarding schizophrenia, the most recent international guidelines identify NIBS with different levels of efficacy on the negative symptoms and auditory hallucinations present in this disorder: in particular, the level of recommendation is C for TMS (probable efficacy) and B for tDCS (possible efficacy).

As such, guidelines take a long time to be published, and therefore refer to studies conducted in the years prior to their publication or revision. However, the most recent publications confirm the efficacy of these techniques while also supporting the favourable association with concomitant pharmacological treatments. Both technologies involve a series of therapeutic sessions, the number and frequency of which depend on the protocols applied, but while TMS treatments are outpatient, for tDCS, remotely controlled systems allowing home treatment are available.

THURSDAY, SEPTEMBER 22nd

14.00 – 14.20 **Welcome and Course presentation**
Prof. Stefano Pallanti – Prof. B. Dell’Osso

Session 1 - Introduction and background - Chair: Prof. B. Dell’Osso– Co-Chair: Prof. Giorgio Di Lorenzo

14.20 – 14.50 **Brain Stimulation in Mental Health: state of the art and perspectives**
Prof. Jerome Brunelin

14.50 – 15.20 **Treatment-resistance OCD: pharmacological and TMS approach**
Prof. Stefano Pallanti

15.20 – 15.50 **Cognitive and negative symptoms in Schizophrenia: what’s new?**
Prof. Stefano Pallanti

15.50 - 16.20 *Break*

Session 2 - Fields of clinical application – Chair: Prof. Stefano Pallanti – Co-Chair: Prof. Giorgio Di Lorenzo

16.20 – 16.40 **TMS and Negative Symptoms of Schizophrenia**
Prof. Emmanuel Poulet

16.40 - 17.00 **TMS in Depression: Accelerated vs Standard Protocols**
Prof. Bernardo Dell’Osso

17.00 – 17.20 **TMS in Addiction Psychiatry: state of the art and perspectives**
Prof. Giovanni Martinotti

17.20 – 17.50 **Biological effects and safety of accelerated TMS**
Prof. Chris Baeken

17.50 – 18.30 **Panel Discussion and Q&A**

FRIDAY, SEPTEMBER 23rd

Session 1 – Practical Session

9.00 – 9.20	Introduction <i>Prof. Stefano Pallanti</i> <i>Tutor: Dott. Ruggero Raccach, Dott. Giorgio Tonon</i>
9.20 – 12.00	Neuro modulation systems with TMS: methods of use and practice with Butterfly coil and H-coil
12.00 – 12.50	Panel discussion and Conclusive remarks <i>Chair: Prof. Stefano Pallanti</i> <i>Prof. Chris Baeken, Prof. Jerome Brunelin, Prof. Bernardo Dell’Osso, Prof. Giovanni Martinotti, Prof. Emmanuel Poulet</i>
12.50 – 13.00	Take home messages
13.00 – 13.30	Evaluation Test

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FACULTY

1. **Chris Baeken** - *Research Professor at Ghent University Bruxelles*
2. **Jerome Brunelin** – *Researcher INSERM U1028 Centre de Recherche en Neurosciences de Lyon Bron, France*
3. **Bernardo Dell’Osso** – *Professor of Psychiatry, University of Milan and Director of Department of Mental Health and Addictions, ASST Sacco-Fatebenefratelli, Milan*
4. **Giorgio Di Lorenzo** – *Associate Professor at University Tor Vergata, Rome, Italy*
5. **Giovanni Martinotti** – *Associate Professor at University “G. D’Annunzio”, Chieti-Pescara, Italy*
6. **Stefano Pallanti** - *Professor at Albert Einstein, New York and Director “Neuroscience Institute”, Florence, Italy*
7. **Emmanuel Poulet** - *Lyon Neuroscience Research Center, PSYR2 Team. University of Lyon, CH Le Vinatier, Lyon, France Responsable des Urgences psychiatriques de l’Hôpital Edouard Herriot à Lyon*

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