

# INPLASY PROTOCOL

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None declared.

## Transcranial Magnetic Stimulation for the treatment of Gambling Disorder: a systematic review

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**Review question / Objective:** What is the effect of Transcranial  
Magnetic Stimulation on Gambling Disorder?

**Condition being studied:** Gambling Disorder.

**Eligibility criteria:** Inclusion criteria: studies evaluating the use  
of Transcranial Magnetic Stimulation for the treatment of  
Gambling Disorder (regardless of comorbidities) including  
randomized, non randomized studies, and observational  
studies written in English; studies exploring an adult  
population, over the age of 18.

**INPLASY registration number:** This protocol was registered with  
the International Platform of Registered Systematic Review and  
Meta-Analysis Protocols (INPLASY) on 17 January 2023 and was  
last updated on 02 August 2023 (registration number  
INPLASY202310054).

### INTRODUCTION

**Review question / Objective:** What is the  
effect of Transcranial Magnetic Stimulation  
on Gambling Disorder?

**Condition being studied:** Gambling  
Disorder.

### METHODS

**Search strategy:** We will search the  
following electronic databases: MEDLINE  
(through PubMed), EMBASE, and Web of  
Science.

**Participant or population:** Adults with  
Gambling Disorder.

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**Intervention:** Repetitive and Theta Burst Transcranial Magnetic Stimulation.

**Comparator:** Sham stimulation.

**Study designs to be included:** Randomized and non randomized studies (single and double-blind), and observational studies.

**Eligibility criteria:** Inclusion criteria: studies evaluating the use of Transcranial Magnetic Stimulation for the treatment of Gambling Disorder (regardless of comorbidities) including randomized, non randomized studies, and observational studies written in English; studies exploring an adult population, over the age of 18.

**Information sources:** We will search the following electronic databases: MEDLINE (through PubMed), EMBASE, and Web of Science.

**Main outcome(s):** Changes in clinical outcomes.

**Quality assessment / Risk of bias analysis:** CC and a second reviewer will independently assess risk of bias using the Cochrane Risk of Bias tool, considering how the sequence was generated, how allocation was concealed, integrity of blinding at outcome, completeness of outcome data, selective reporting, and other biases.

**Strategy of data synthesis:** We will provide a narrative synthesis of the findings from the included studies.

**Subgroup analysis:** We will provide a narrative synthesis of findings according to the types of stimulation parameters and the outcome measures.

**Sensitivity analysis:** No sensitivity analysis are planned.

**Language restriction:** English.

**Country(ies) involved:** Italy.

**Keywords:** Transcranial Magnetic Stimulation; Gambling Disorder; Systematic review; Narrative synthesis.

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