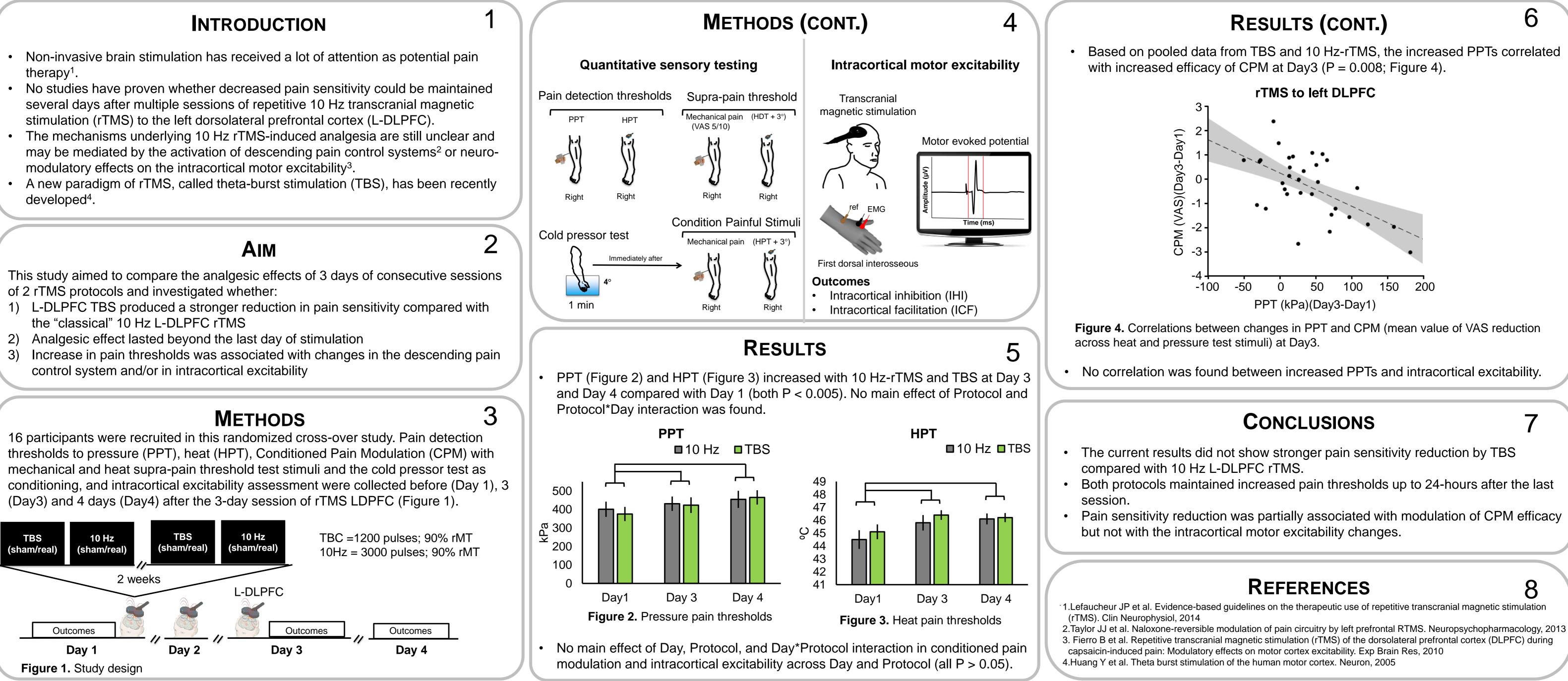


Center for Neuroplasticity and Pain

- therapy¹.
- several days after multiple sessions of repetitive 10 Hz transcranial magnetic stimulation (rTMS) to the left dorsolateral prefrontal cortex (L-DLPFC).
- modulatory effects on the intracortical motor excitability³.
- developed⁴.

- the "classical" 10 Hz L-DLPFC rTMS
- control system and/or in intracortical excitability





Dorsolateral prefrontal cortex TBS as effective as 10Hz rTMS on pain sensitivity

Enrico De Martino¹, Ana Mércia Fernandes², Ricardo Galhardoni^{2,3}, Carolina De Oliveira Souza⁴, Daniel Ciampi De Andrade^{2,3}, Thomas Graven-Nielsen¹

1. CNAP, Dept. of Health Science & Technology, Aalborg University, Aalborg, Denmark

2. Pain Center, LIM-62, Department of Neurology, University of São Paulo, São Paulo, Brazil

3. Service of Interdisciplinary Neuromodulation, Laboratory of Neuroscience and National Institute of Biomarkers in Neuropsychiatry, Department and Institute of Psychiatry, University of São Paulo School of Medicine, São Paulo, Brazil 4. Movement Disorders Clinic, Department of Neurology, Hospital das Clinicas of the University of São Paulo School of Medicine, São Paulo, Brazil

This study was funded by the Danish National Research Foundation (DNRF121)



6

Based on pooled data from TBS and 10 Hz-rTMS, the increased PPTs correlated

Both protocols maintained increased pain thresholds up to 24-hours after the last

Pain sensitivity reduction was partially associated with modulation of CPM efficacy

undforskningsfond anish National

search Foundatior

