

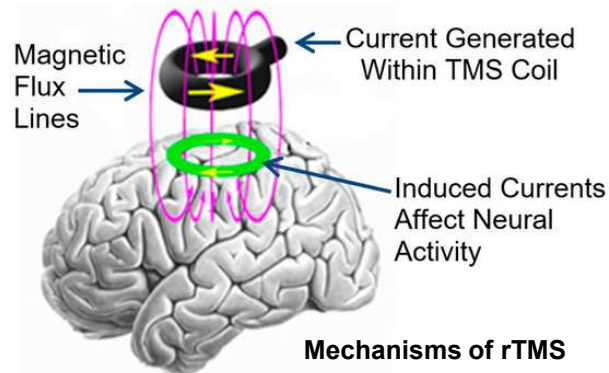
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## INTRODUCTION

- Temporal lobe (TL) lability may influence anomalous cognition (ESP).
- Evidence indicates a psi-conductive state can be induced via imagery cultivation (IC; Storm & Goretzki, 2021).
- It is theorized that repetitive transcranial magnetic stimulation (rTMS) can induce a psi-conductive effect in addition to the IC contribution (see figure below).
- Our aims were to show that:

- (i) rTMS of the left anterior temporal lobe (LATL, a brain region responsible for aspects of memory and symbolic interpretation) is psi-conductive; &
- (ii) Direct-Hitting (ESP), Transliminality (sensitivity to internal/external stimuli), Personal Philosophy Inventory (PPI) factors (Persinger, 1984), correlate within groups (there are three groups, defined shortly).



## METHOD

- All participants completed the Transliminality, the PPI scales, and the IC task (i.e., visualize a random future target photo among four decoys).
- Two main groups tested:
- (1) IC-only (controls);
- (2) IC+rTMS, divided into Delta (1Hz) and Alpha (10Hz) stimulation protocols.

## RESULTS

- **Controls (n = 99):** Direct Hitting (target ranked #1) = 26% (MCE = 20%). The Hitting/Transliminality correlation was weak but positive (not significant = n.s.). Hitting correlated positively and significantly with 'All-Signs involving TL Factors' and Hypomania (affectivity).
- **Alpha group (n = 30):** Direct Hitting = 20%. Hitting/Transliminality was weak, only approaching significance. Hitting correlated positively and significantly with Intense Meaning (symbolic meaning interpretation) and Hypomania.
- **Delta group (n = 28):** Direct Hitting = 14%. Hitting/Transliminality was weak but positive (n.s.). Hitting correlated negatively and significantly with a cluster of TL measures.

## CONCLUSIONS

- Alpha rTMS appeared less psi-inhibitive than Delta rTMS, but controls had the highest hit-rate.
- For controls, hitting was associated with TL-related clusters and Hypomania, which may facilitate intuitive or perceptual processing.
- Alpha rTMS showed similar links. However, Delta rTMS showed a cluster of negative associations of Direct Hitting with TL measures.
- The psi function and its relationship to the TL requires further investigation to disambiguate these differences.