

NEURO-CARDIAC GUIDED RTMS VOOR DEPRESSIE: STRATIFICATIE TUSSEN ‘5CM’ EN ‘BEAMF3’ LOCATIE

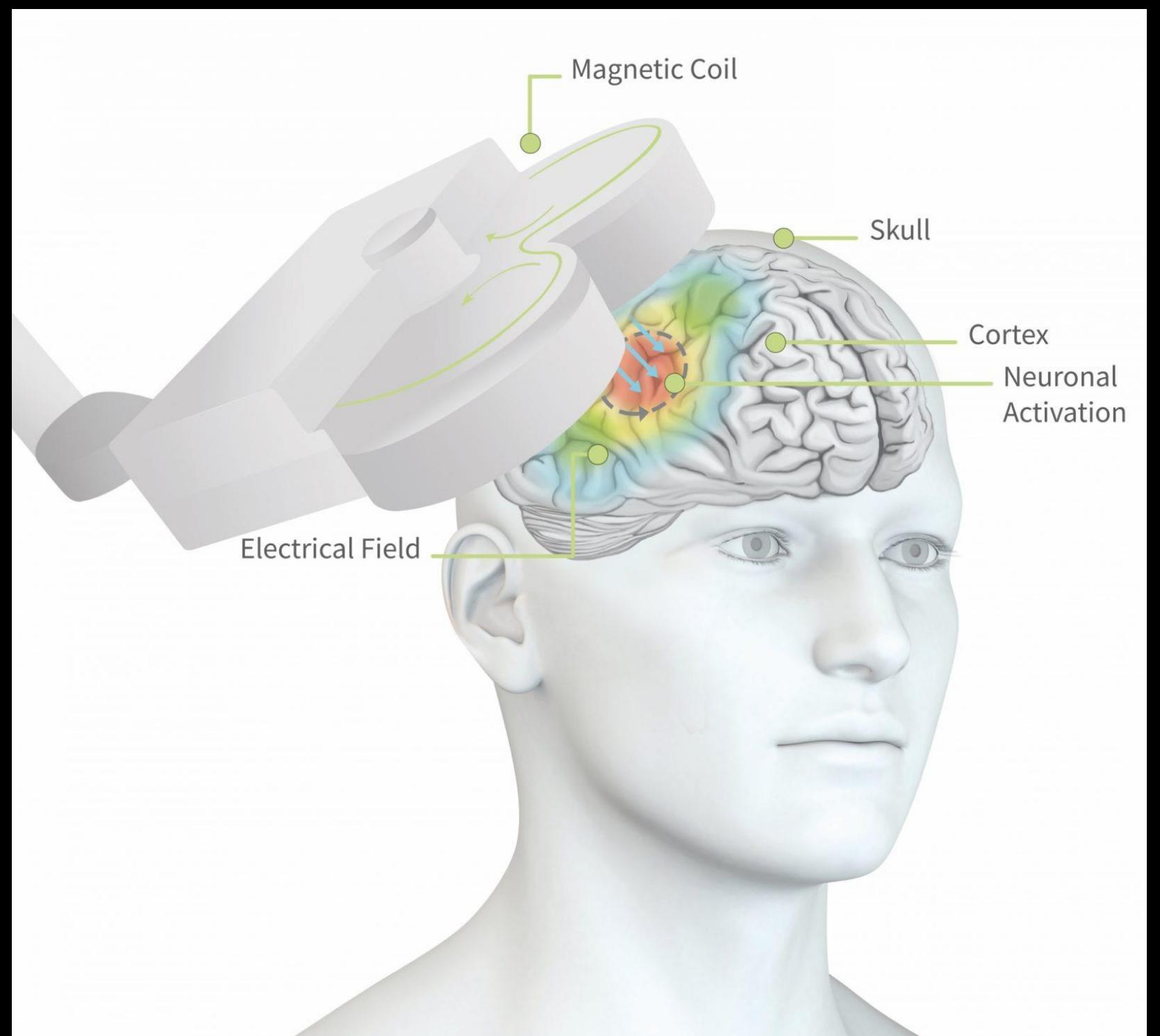
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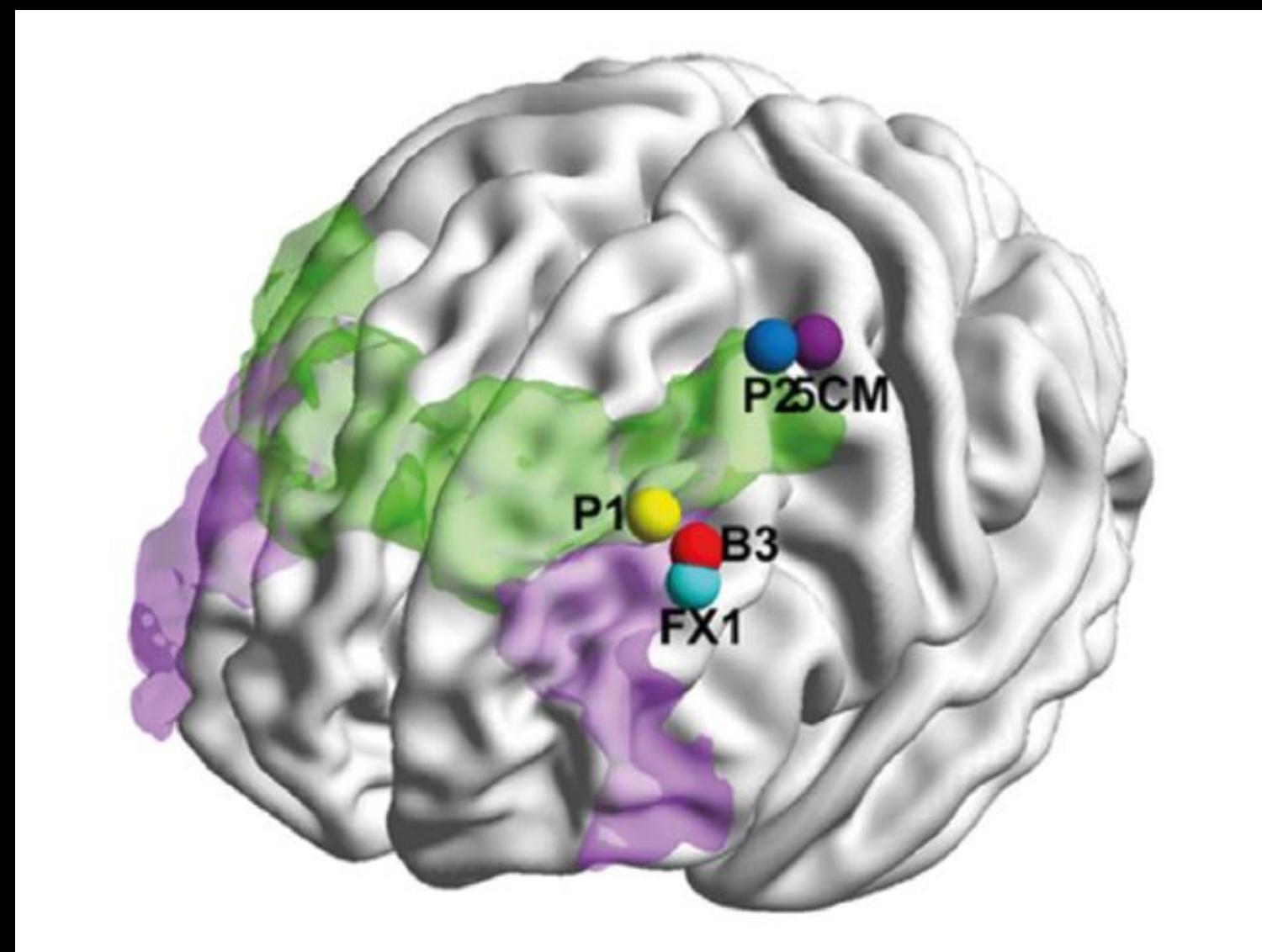
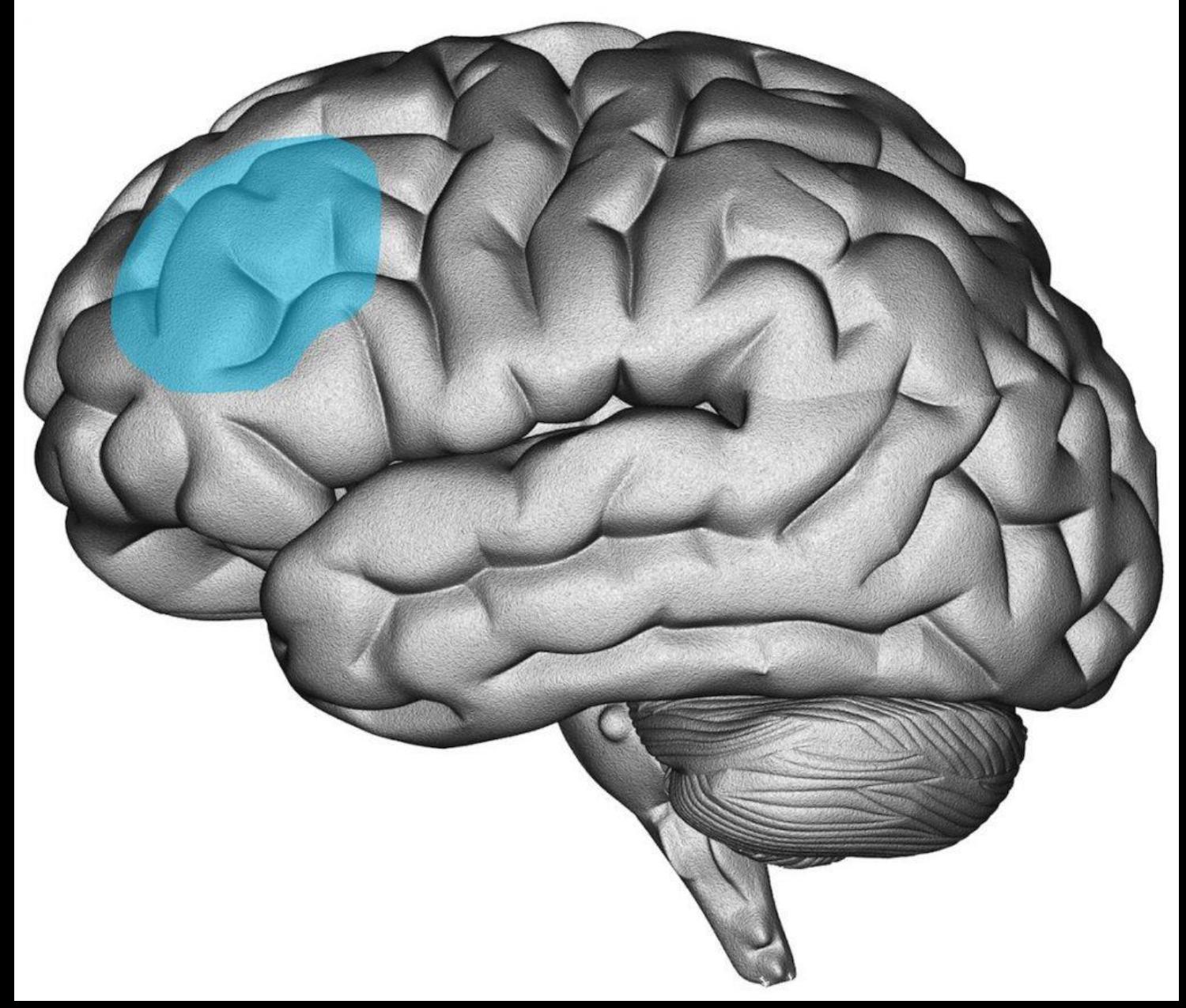
RTMS?



- * Repetitive transcranial magnetic stimulation
- * Non-invasive neuromodulation techniques

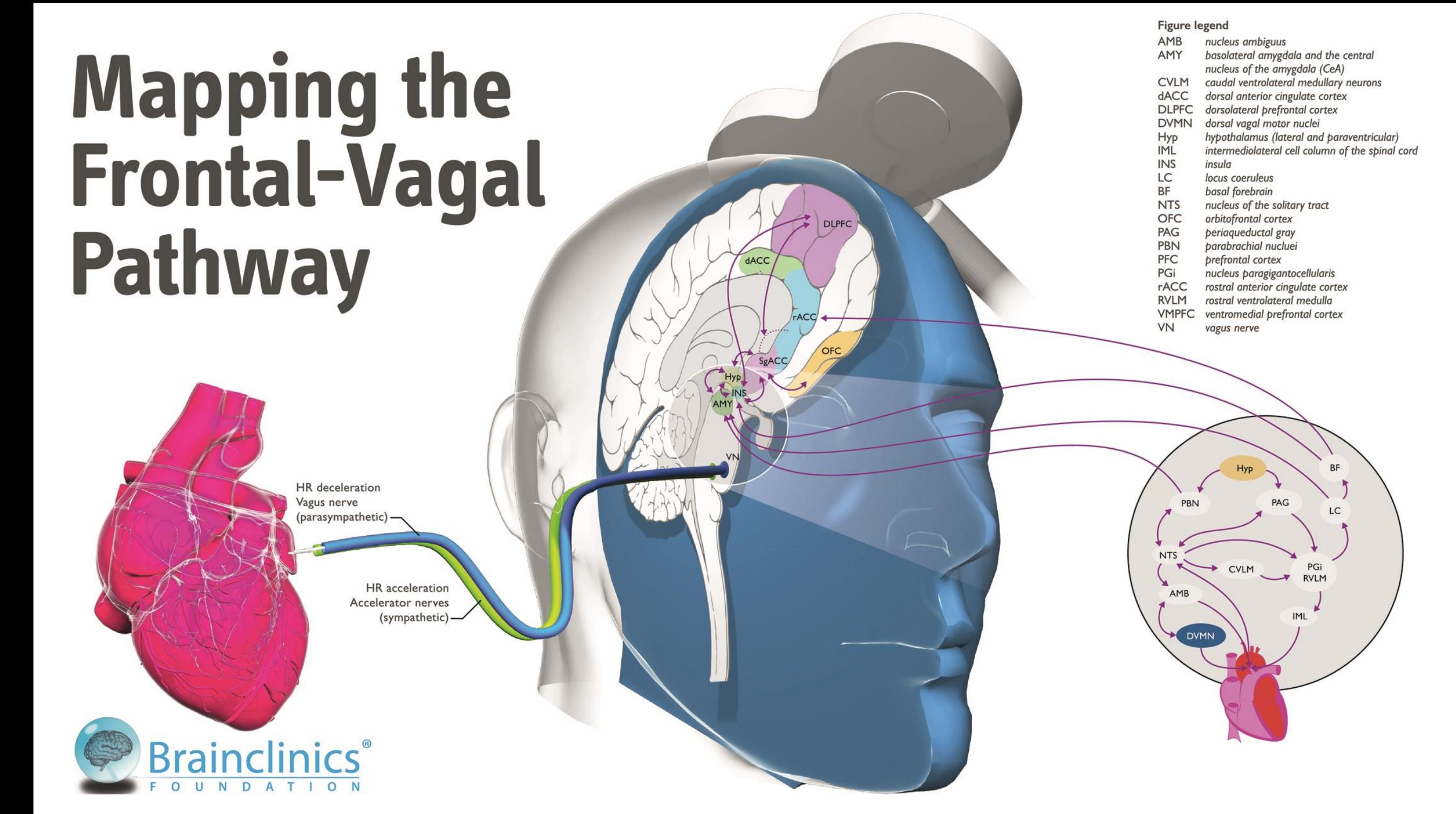
STIMULATIE

- * Dorsolaterale prefrontale cortex (DLPFC)
- * 5cm & BeamF3



FRONTAL-VAGAL PATHWAY

- * DLPFC
- * Subgenual anterior cingulate cortex (sgACC)
- * Vagus zenuw (parasympatisch)



STRATIFICEREN

- Groepsniveau → ‘individualisatie’/stratificatie
- Individuen op basis van biologische kenmerken groeperen

* Iseger, T. A., Padberg, F., Kenemans, J. L., Gevirtz, R., & Arns, M. (2017). Neuro-Cardiac-Guided TMS (NCG-TMS): Probing DLPFC-sgACC-vagus nerve connectivity using heart rate - First results. *Brain Stimulation*, 10(5), 1006-1008. doi: 10.1016/j.brs.2017.05.002

* Iseger, T. A., Padberg, F., Kenemans, J. L., Dijk, H. van, & Arns, M. (2021). Neuro-Cardiac-Guided TMS (NCG TMS): A replication and extension study. *Biological Psychology*, 162, 108097. doi: 10.1016/j.biopsych.2021.108097

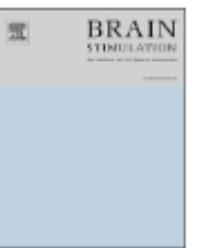
* Zwijsenberg, L., Iseger, T. A., Dijkstra, E., Rouwhorst, R., Dijk, H. van, Sack, A. T., & Arns, M. (2021). Neuro-cardiac guided rTMS as a stratifying method between the ‘5cm’ and ‘BeamF3’ stimulation clusters. *Brain Stimulation*, 14(5), 1070-1072. doi: 10.1016/j.brs.2021.07.005



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Neuro-Cardiac-Guided TMS (NCG TMS): A replication and extension study

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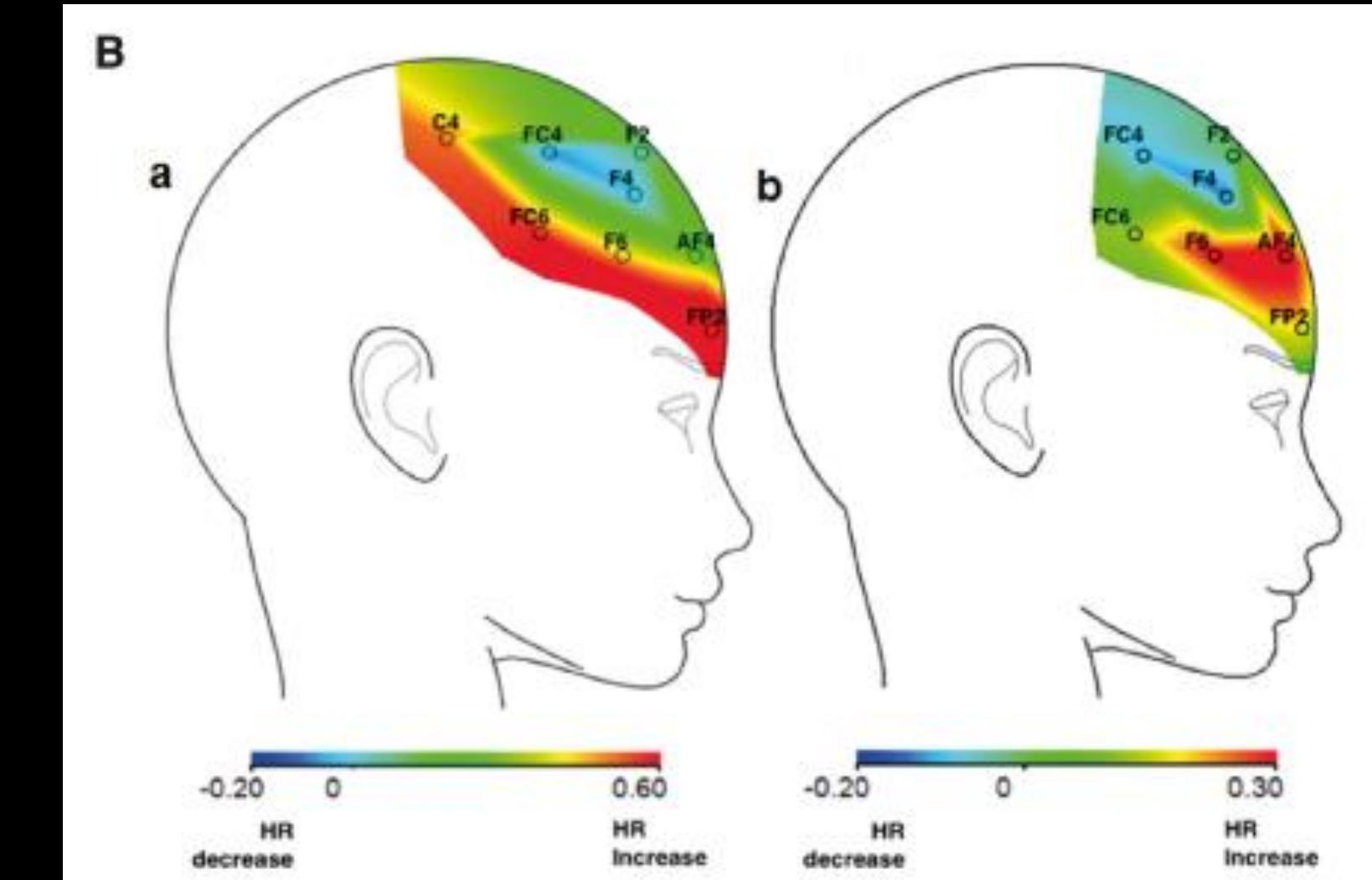
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Neuro-cardiac guided rTMS as a stratifying method between the ‘5cm’ and ‘BeamF3’ stimulation clusters



NEURO-CARDIAC GUIDED RTMS



Waar?

Synaeda (Leeuwarden & Drachten), neuroCare (Den Haag), Neurowave (Amsterdam)
‘From the clinic to the clinic’

Wie?

Patiënten met behandelresistente depressie (BDI > 13; minstens 2 e.b. behandelingen waarvan 1 antidepressivum).

Wat?

Voorafgaand NCG-meting voor bepaling 5cm/BeamF3 locatie.

HET ONDERZOEK

Baseline data: 2014 - 2021 (+- 200 patiënten)

NCG-TMS data: 2022 - 2023 (+- 150 patiënten)

- DASH sweep: 5cm & BeamF3, links én rechts; oplopende intensiteit

Baseline effectiviteit vs. NCG-TMS effectiviteit

Evidence-based locaties loslaten?? Geheel individualiseren?

BEDANKT

