We previously established a neurofeedback paradigm in which people with subclinical depression are trained to make their brain activity more “healthy” so that their depressive symptoms decrease. We are now exploring different parameters to try to make this paradigm maximally feasible and clinically effective.

But, the FC-Nef training paradigm is tough, so we tested to see if similar results could be found with less demanding parameters; e.g. shorter trials, which means less time in MRI.

We replicated original results and found similar results when the FC-Nef trials were shortened, thereby demonstrating one way this task may become more clinically feasible.

We are currently testing to see if this task can be performed to the same effect on non-consecutive days, to better fit patient’s schedules. Other parameters will also be tested.

The number of people with depressive symptoms has greatly increased since the start of the covid-19 pandemic. Progression of this project could help them in the future.

連絡先：脳情報研究所 担当 Jessie Taylor E-Mail:jessietaylor@atr.jp

本研究は、日本医療研究開発機構「戦略的国際脳科学研究推進プログラム」、防衛装備庁（安全保障技術研究推進制度）の研究委託により実施したものです。