



Case #712

AI-Enabled Phone App to Help Control Panic Attacks

More than 6 million people in the US suffer from panic attacks and although panic attacks can be controlled via clinical based therapy, providing personalized app-based biofeedback support to address panic attacks as they happen and outside of the clinic would be a valuable addition to the current therapeutic toolbox and provide real-time data to the provider for better treatment outcomes. This AI-enabled app takes heart and respiratory rates via the patient's phone camera and uses them to guide the patient through their personalized biofeedback process, when and where the attacks occur. While developed specifically for the control of panic attacks, the technology can apply to any condition where biofeedback has proven useful, such as migraine control.

Applications:

- Enables real-time biofeedback control of panic attack symptoms outside the clinic.
- Biofeedback system could help with migraines, chronic pain and high blood pressure.

Advantages:

- Immediate help for ongoing panic attacks.
- Ubiquitous platform to deliver therapy.
- Saves costs by reducing clinical visits.
- No additional accessories or sensors required.
- Biofeedback therapy is clinically proven.

Intellectual Property and Development Status:

US Provisional Application 62/681,926

Looking for both licensing and research collaborations.

References:

Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus *Sci Signal*. 2016 Nov 29;9(456)

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