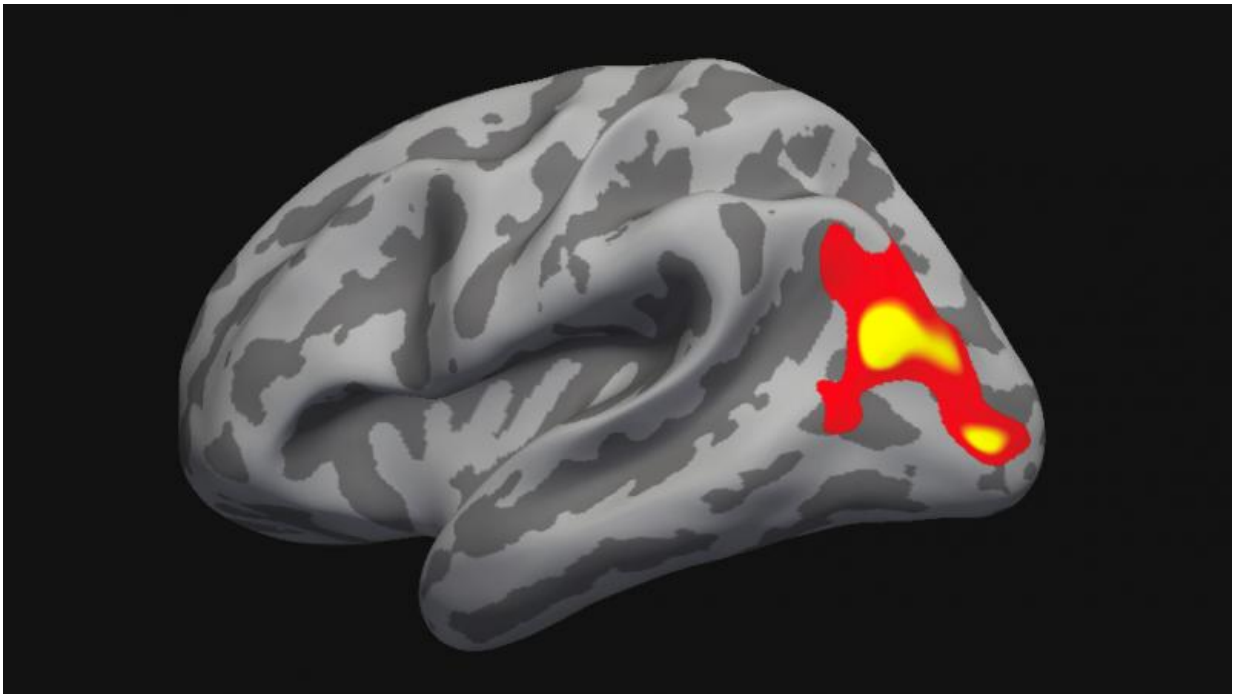


Psychotherapy normalizes the brain in social phobia

February 6 2017



In the marked brain region the thickness of the cerebral cortex decreased after psychotherapy. Credit: UZH

Anxiety in social situations is not a rare problem: Around one in ten people are affected by social anxiety disorder during their lifetime. Social anxiety disorder is diagnosed if fears and anxiety in social situations significantly impair everyday life and cause intense suffering. Talking in front of a larger group can be one typical feared situation. A

study conducted by researchers from the University of Zurich, Zurich University Hospital and the University Hospital of Psychiatry Zurich now reveals that the successful treatment of an anxiety disorder alters key brain structures that are involved in processing and regulating emotions.

Cognitive behavioral therapy pivotal

In patients suffering from social anxiety disorder, regulation of excessive anxiety by frontal and lateral [brain areas](#) is impaired. Strategies aimed at regulating emotions should restore the balance between cortical and subcortical brain areas. These strategies are practised in [cognitive behavioral therapy](#) (CBT) which is a central therapy for social anxiety disorder. The study from Zurich investigated structural [brain changes](#) in patients suffering from social anxiety disorder after a specific ten-week course of CBT. Using magnetic resonance imaging the participants' brains were examined before and after CBT.

Changes in the brain normalized

"We were able to show that structural changes occur in brain areas linked to self control and emotion regulation," says Annette Brühl, head physician at the Center for Depression, Anxiety Disorders and Psychotherapy at the University Hospital of Psychiatry Zurich (PUK). The more successful the treatment, the stronger brain changes. The research group was also able to demonstrate that brain areas involved in processing emotions were more interconnected after the treatment. "Psychotherapy normalizes brain changes associated with [social anxiety disorder](#)," Brühl sums up.

More information: V R Steiger et al. Pattern of structural brain changes in social anxiety disorder after cognitive behavioral group

therapy: a longitudinal multimodal MRI study, *Molecular Psychiatry* (2016). [DOI: 10.1038/mp.2016.217](https://doi.org/10.1038/mp.2016.217)

Provided by University of Zurich

Citation: Psychotherapy normalizes the brain in social phobia (2017, February 6) retrieved 26 April 2024 from <https://medicalxpress.com/news/2017-02-psychotherapy-brain-social-phobia.html>

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