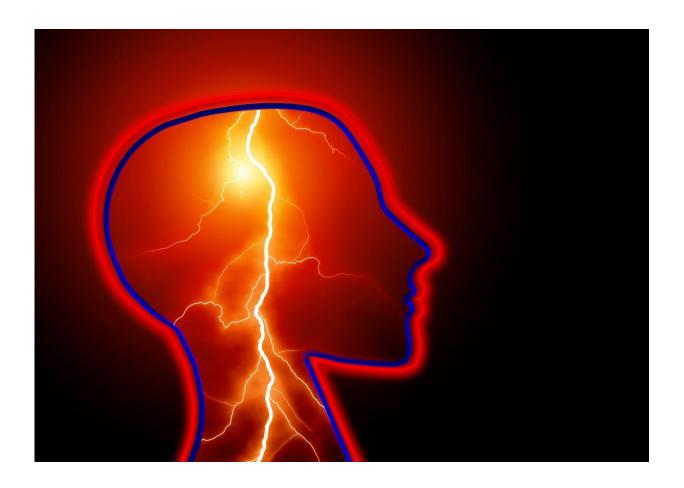


Study finds music therapy helps stroke patients

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New research has found that music therapy sessions have a positive effect on the neurorehabilitation of acute stroke patients, as well as their



mood.

The study—the first large-scale investigation into the feasibility of delivering these exercises—was led by Dr. Alex Street, of Anglia Ruskin University (ARU), and was carried out on a 26-bed stroke and rehabilitation unit at Addenbrooke's hospital in Cambridge.

In total, 177 patients took part in 675 Neurologic Music Therapy (NMT) sessions over a two-year period. The researchers investigated its success among patients, their relatives, and health professionals, and the results are published in the journal *Topics in Stroke Rehabilitation*.

Music therapy is understood to help <u>stroke patients</u> through mood regulation, improved concentration, and promoting changes in the brain to improve function, known as neural reorganisation. Physical benefits include better arm function and gait.

Lots of repetition, or 'massed practice', is central to neurorehabilitation. In addition to playing physical instruments (keyboard, drums and handheld percussion), iPads featuring touchscreen instruments were used in the trial to help patients with hand rehabilitation, through improving finger dexterity, and cognitive training.

NMT sessions were run alongside existing stroke rehabilitation treatment, including physiotherapy, <u>occupational therapy</u>, speech therapy, and <u>clinical psychology</u>.

Of the 139 patients, relatives and <u>hospital staff</u> who completed questionnaires, the average response was that NMT was "helpful" or "very helpful". And of the 52 patients who completed mood scale questionnaires, there was a reduction in "sad" and an increase in "happy" responses immediately following a session.



Speech and language therapists observed a positive impact on patient arousal and engagement, and reported that it may help patients overcome low mood and fatigue—both common following stroke—and therefore be beneficial for their rehabilitation.

Following the success of the trial, the Cambridge Institute for Music Therapy Research at Anglia Ruskin University (ARU) and Addenbrooke's hospital are developing a proposal to establish a permanent NMT post on the <u>stroke</u> ward, funded by the NHS.

Dr. Alex Street, Senior Research Fellow within the Cambridge Institute for Music Therapy Research at Anglia Ruskin University (ARU), said: "Our study found that Neurologic Music Therapy was received enthusiastically by patients, their relatives, and staff.

"The fact 675 sessions were carried out in two years is in itself an indication of the success of the treatment. It shows that staff are referring patients because they understand the mechanisms of the exercises and can see how it can benefit their patients. It also shows that patients are willing to do the exercises, with each one participating in an average of five sessions.

"Staff felt that using <u>music</u> and instruments allowed patients to achieve a high amount of repetition to help achieve their goals. They felt that the exercises appear less clinical, because the patients are playing music with the music therapist, and they are receiving immediate feedback from the exercises, through the sounds they create. Further research is necessary to establish potential effects of music <u>therapy</u> on recovery rate and length of hospital stay."

More information: Alexander Street et al, Neurologic music therapy in multidisciplinary acute stroke rehabilitation: Could it be feasible and helpful?, *Topics in Stroke Rehabilitation* (2020). DOI:



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