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February 2015

Success with the trial of the NeuroSigma TNS at Clareville

Wednesday, 16 April 2014



One of Clareville's Service users has had the VERY unique advantage of experiencing and trialling the NeuroSigma, which causes trigeminal nerve stimulation (TNS) for a variety of neurologic and psychiatric disorders and has shown an advantage with epilepsy seizure activity.

TNS is unique among neuromodulation therapies because it can be delivered via a non-invasive external trigeminal nerve stimulation (eTNS™) system, or a minimally-invasive subcutaneous trigeminal nerve stimulation (sTNS™) system.

NeuroSigma is investigating TNS as a treatment for epilepsy, depression, attention deficit hyperactivity disorder (ADHD), and post-traumatic stress disorder (PTSD).

It has proved over the past 14 months to reduce seizure activity in our service user and has shown to be reducing particular seizures in our service user. This has been a trial brought in from America with charitable funding. It has become such a success here at Clareville that Kings College hospital have been able to approve funding for the use of this TNS for a further 12 months for our service user.

The eTNs is attached to the forehead of our service user (rather like a large plaster which is electronically attached to the main NeuroSigma device) which is again attached to the main NeuroSigma box. It is then set at a level that has been recommended by the neurologist. This then sends small electronic pulses to the brain while the service user is sleeping.

We have all been overwhelmed with the difference it has been making to the service user and his seizure activity which in turn has been gaining him a better quality of life.

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