



Benefits of Transcranial Magnetic Stimulation

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INTRODUCTION

Transcranial magnetic stimulation is an invasive procedure used in treating depression. This transcranial magnetic stimulation is a process where in two magnetic fields are inserted into the brain and stimulates the nerve cells in the brain and decreasing the symptoms of depression in a patient. This treatment is called as magnetic stimulation as it involves of the magnetic pulsus and it is also called as repetitive transcranial magnetic stimulation. This transcranial magnetic stimulation is a well and safe effective treatment in treating the depression patient when he or she doesn't get any effective from anti-depressant medications and also people who cannot tolerate with the side effects of this anti-depressant medications. This transcranial magnetic stimulation is not appropriate to every person before preferring this treatment to a depressed person the person should be evaluated by the psychiatry department and should provide a statement or an approval that the person can be fit for this transcranial magnetic stimulation. Transcranial magnetic stimulation helps in treating not only the depressed person but also people suffering from anxiety and parkinsons disease. About thirty percent of the people haven't showed any effect after this transcranial magnetic stimulation procedure. In a depression the region of prefrontal cortex of the brain is more involved and the symptoms of the depression control can be done in the prefrontal cortex so they create the magnetic pulsus in order to decrease the symptoms. In stroke patients there is blocked or reduced flow of blood to the brain and the brain cells die. When transcranial magnetic stimulation is done in stroke patients by the magnetic pulse then there will be an improvement in the motor symptoms and the movement reappears to the patient. Transcranial magnetic stimulation can be used in various disease like alzheimer disease, parkinsons disease, chronic pain, nicotine addiction,

multiple sclerosis and schizophrenia. Side effects of this transcranial magnetic stimulation are of mild headache, scalp pain, facial twitching, sleepiness and altered cognition during treatment. Transcranial magnetic stimulation is suggested to mainly a depressed person unless he or she has been tried with four anti-depressants drugs. Brain stimulation is done to inhibit or promote the activity of the brain cells through electrical and magnetic impulsus. Diseases related to the brain cells activity can be improved by performing transcranial magnetic stimulation. The common side effect is of headache during and after the treatment procedure. This transcranial magnetic stimulation procedure doesn't require any anaesthesia it is far more better than the side effects of the drug that has been taken. The results of this transcranial magnetic stimulation will take up to two four weeks. The rare side effect of transcranial magnetic stimulation is of seizures it is about one percent chance to occur while doing this procedure. Careful monitoring must be done while carrying out this procedure. Prior intimation regarding any metal plate surgeries or process in the head as serious problems may occur due to the strong magnetic pulse. When transcranial magnetic stimulation is done to a depressed person the symptoms gets decreased and this process can also be repeated when there is any second episode of symptoms of depression.

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DECLARATION OF CONFLICTING INTERESTS

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