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Directional subthalamic nucleus deep brain stimulation for complex symptoms control in Parkinson's disease

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Subthalamic nucleus Deep brain stimulation (DBS) surgery is a well-established treatment modality for symptom control in Parkinson's disease. However, the occurrence of disabling side effects may limit the ability to deliver adequate amounts of current necessary to reach the maximal benefit. Reduction in electrode size and the ability to provide directional stimulation could increase the efficacy of such modalities, reduce medications and avoid such side effects. We are presenting our experience with a case with complex symptoms of Parkinson disease for the demonstration of the role and the efficacy of directional STN DBS and the challenge of programming. In selected cases of Parkinson diseases, directional DBS is an effective modality that can reduce the side effects and increase the efficiency of stimulation.

Biography

Mohamed Okasha is a Senior Specialty Registrar of Neurosurgery, Royal Victoria Infirmary, and Newcastle upon Tyne, UK. He is Neurosurgery Consultant, Egypt with 12 years of experience. His research interest includes "Pituitary surgery, endoscopic skull base surgery, functional neurosurgery and spine surgery". He is Member of Society of British Neurosurgeons and Egyptian Society of Neurosurgeons. He is regular peer reviewer in *British Journal of Neurosurgery*.

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