**Experience of directional stimulation of the subthalamic nucleus**

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**Introduction**  
A novel neurostimulation system allows steering current in horizontal directions by combining segmented leads and multiple independent current control. The aim of this study was to evaluate directional deep brain stimulation(DBS) effects on parkinsonian motor features and adverse effects of subthalamic(STN) neurostimulation.

**Methods**  
Twenty-one Parkinson's disease patients implanted with the novel directional DBS system for bilateral subthalamic DBS. After turning on the device we reviewed their final stimulating contacts and their efficacy over side effects.

**Results**  
Twelve lead among 28 (42.9%) lead implanted at STN were finally stimulating with directional mode. Lateral and postero-lateral direction was frequently used in left side, and anterior and postero-medial side in right side. Only 6 lead changed their settings due to uncontrolled side effects. Others set the direction when the patients feel better in that direction.

**Conclusion**  
Directional stimulation gives more option for stimulating optimal target with avoidance of side effects.