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Brain lesioning for parkinson's disorder in its new form

Abstract:

Background: Radiofrequency lesioning (RFL) though used since the 1950s, its become more precise after introductions of brain ct scan and MRI and more effective and safe after change duration and tempressur of lesioning. Although the publicity of deep brain stimulation (DBS) after 1990s, lesioning surgeries were still the favored and practiced neurosurgical procedures throughout the world.

Objective: analysis RFL in contemporary Functional Neurosurgery for Parkinson Disease and its outcome. Complication rates of RFL are compared with DBS.

Methods: four hundred patients underwent RFL in 2022. Indications for Parkinson's Disease (PD), those not response or side effect of antiparkinson medications. The surgeries performed include thalamotomy for tremor, pallidotomy for rigidity or combined. Appropriate rating scales were used for preoperative and postoperative evaluations.

Results: There was a dramatic response for both tremor and rigidity. Three patients had transient contralateral weakness, three of them had intracerebral hematoma. One patient no improve in tremor, other one there was changing in pattern of the tremor direction. One patient had transient changing in voice.

Conclusion: RFL a useful functional neurosurgical option, safe in expert hands, cheap with more familiar to patients in future might be used to other neurological diseases.

Biography

Hussein Imran Mousa, professor functional neurosurgeon, Iraq director for Middle East stereotactic and functional neurosurgery, is affiliated as chief neurosurgeons in the Almosawi hospital, Neurosurgical center at Alsdr Teaching hospital, Basra Iraq. Membership for many international associations, AANS, NASS, AOspine, ESSFN, ESO, WSO, ISCS, IFNR, AAP, WIP and others. Expertise in neuromodulation and functional neurosurgery, Deep brain stimulation and brain lesioning for Parkinson, movement and psychological disorders, Gamma knife for brain tumours and functional neurosurgery, spinal cord stimulation and pain managements, Regarding spasticity, Baclofen pumps, phenol and Botox injections for spasticity