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Surgical Management of Synucleinopathies

Brandon Lucke-Wold
University of Florida, USA

Synucleinopathies represent a diverse set of pathologies with significant morbidity and mortality. In this review, we highlight the surgical management of three synucleinopathies: Parkinson's Disease (PD), Dementia with Lewy Bodies (DLB), and Multiple System Atrophy (MSA). After examining underlying molecular mechanisms and the medical management of these diseases, we explore the role of Deep Brain Stimulation (DBS) in the treatment of synuclein pathophysiology. Further, we examine the utility of Focused Ultrasound (FUS) in the treatment of synucleinopathies such as PD, including its role in Blood-Brain Barrier (BBB) opening for the delivery of novel drug therapeutics and gene therapy vectors. We also discuss other recent advances in the surgical management of MSA and DLB. Together, we give a diverse overview of current techniques in the neurosurgical management of these pathologies.

Recent Publications

1. Brandon Lucke-Wold, Yusuf Mehkri, Focused Delivery of Chemotherapy to Augment Surgical Management of Brain Tumors, DOI:10.3390/curroncol29110696
2. Brandon Lucke-Wold, Matthew Goldman Steroid utility, immunotherapy, and brain tumor management: an update on conflicting therapies DOI:10.37349/etat.2022.00106

Biography

Brandon Lucke-Wold completed MD/PhD, Master's in Clinical Translational Research, and the global health track at WVU. He is Neurosurgery resident at University of Florida.

e: Brandon.Lucke-Wold@neurosurgery.ufl.edu