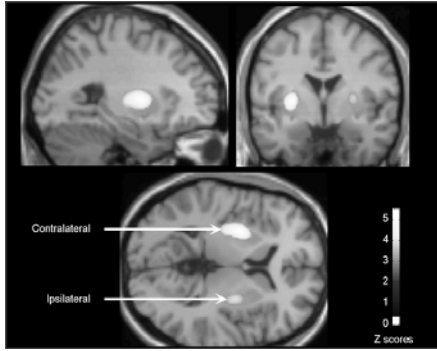


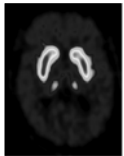
**18F-FPCIT Binding Reductions in PD
H&Y Stage I**



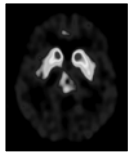
NSUH

Sham surgery

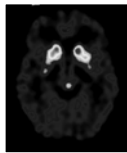
FDOPA / PET



Normal

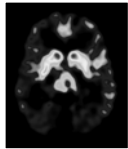


Preop.

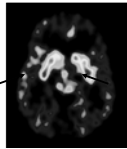


Postop.

Fetal mesencephalic cell implant



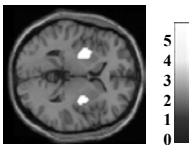
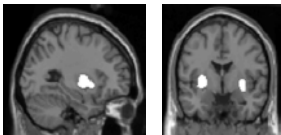
Preop.



Postop.

NSUH

Fetal Dopamine Cell Transplant

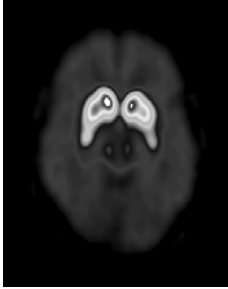


FDOPA/PET: SPM Analysis ($p < 0.001$)

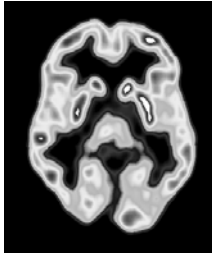
NSUH

**Parkinson's Disease
H&Y I**

¹⁸F-FPCIT

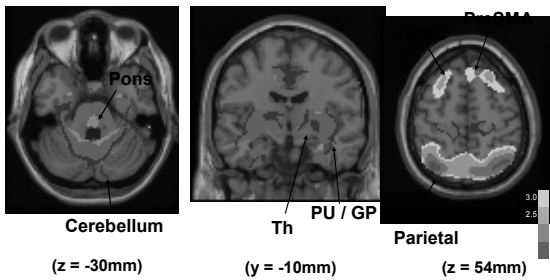


¹⁸F-FDG



NSUH

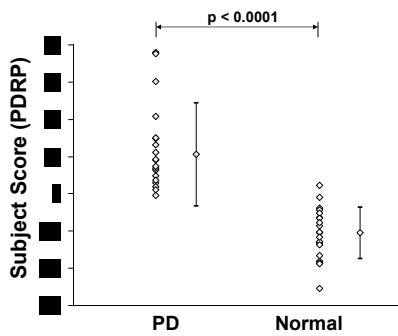
PD related Metabolic Network: Voxel Analysis



PC1 (20.7% VAF) from analysis of 20 PD and 20 Controls

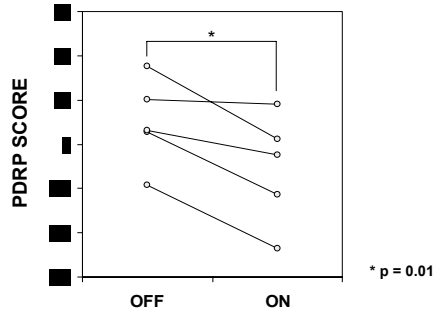
NSUH

Network Activity Discriminates PD and Controls



NSUH

Levodopa Infusion



NSUH

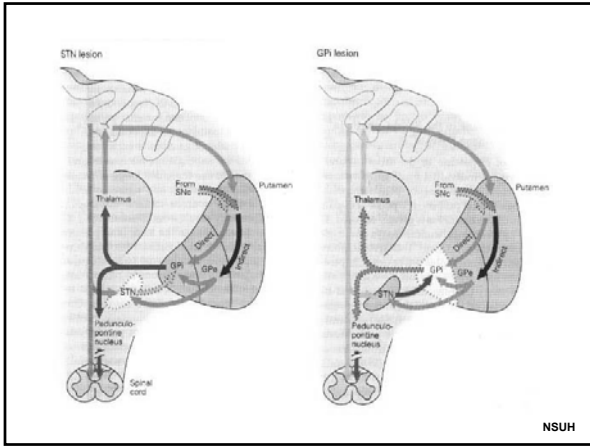


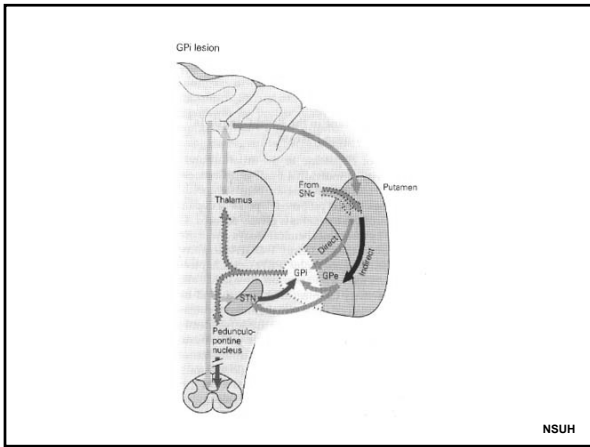
NSUH

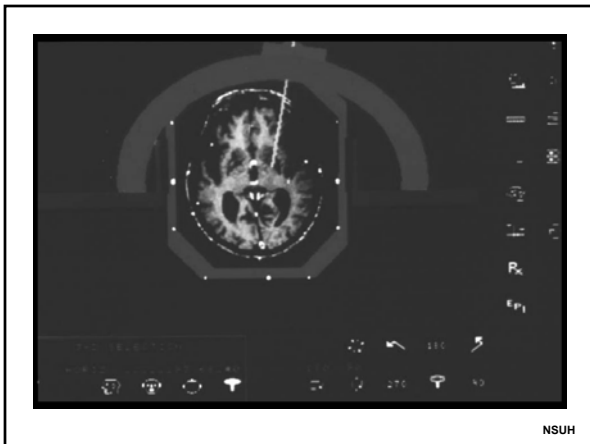
Implantation: Two year Follow-up



NSUH



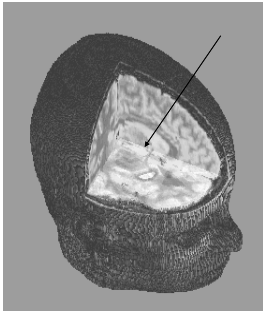






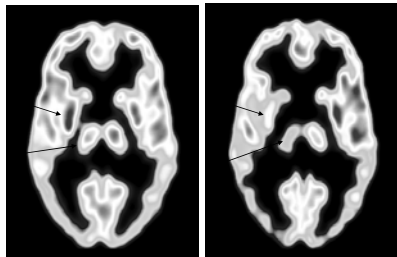
NSUH

**MRI-PET Fusion Image
Pallidotomy**



NSUH

**¹⁸F-FDG/PET
63 yrs man rt. pallidotomy**

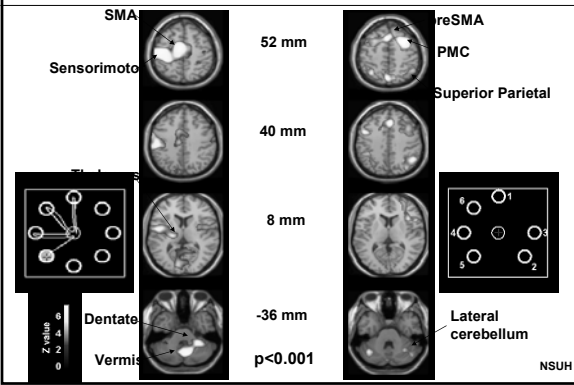


mg/100g/min

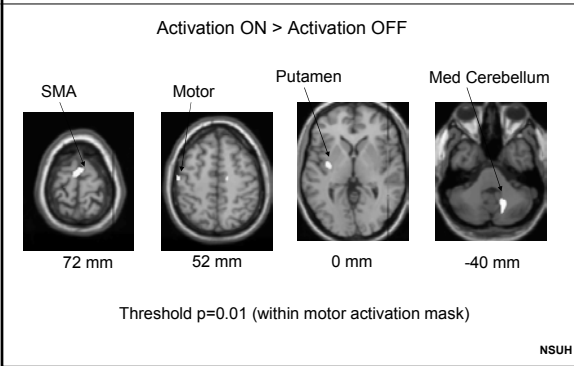
14.0

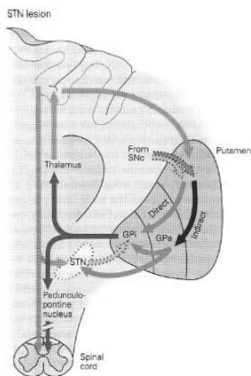
NSUH

Task Subtractions

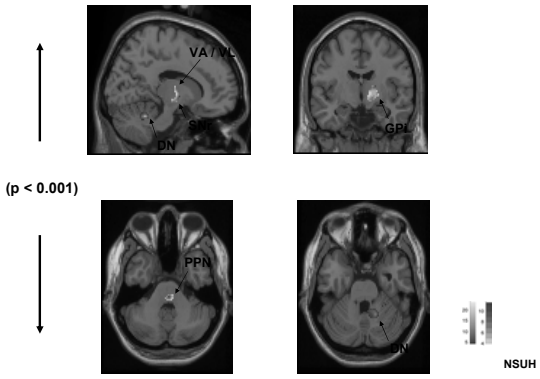


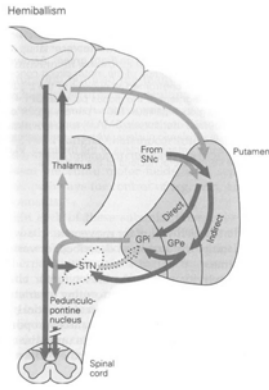
Effect of GPi stimulation on motor task



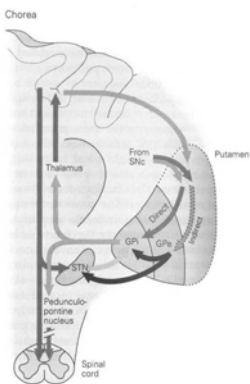


Effect on Brain Glucose Metabolism

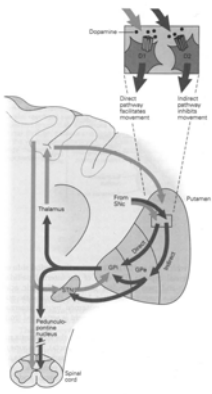




NSUH



NSUH



NSUH
