


Design of study

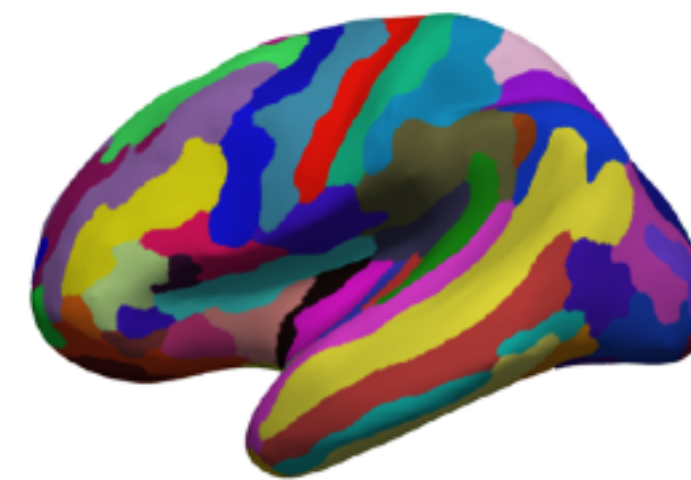
Work in progress

Supervised ML classification task



86 TN subjects with
T1 and DWI imaging
Initial diagnosis of TN

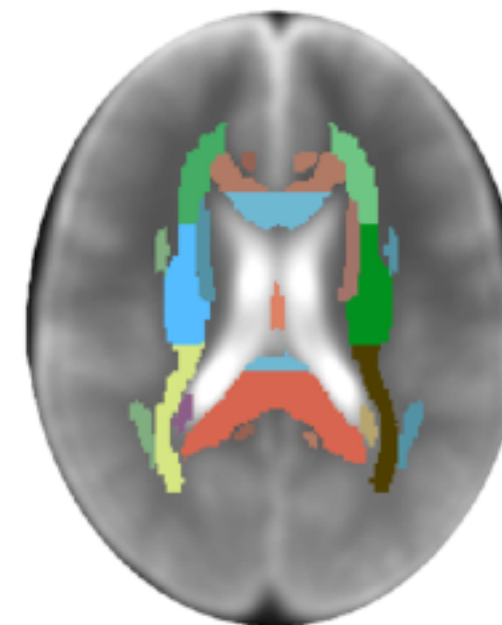
Freesurfer recon-all (GM)



420 T1 imaging metrics in
Destrieux atlas parcellation

- Cortical GM
- Thalamus
- Hypothalamus
- Hippocampus
- Amygdala
- Basal Ganglia

FSL DTI estimation (WM)



144 regional DTI scalar
measurements in JHU White
matter atlas

- FA
- AD
- RD



Duration of response

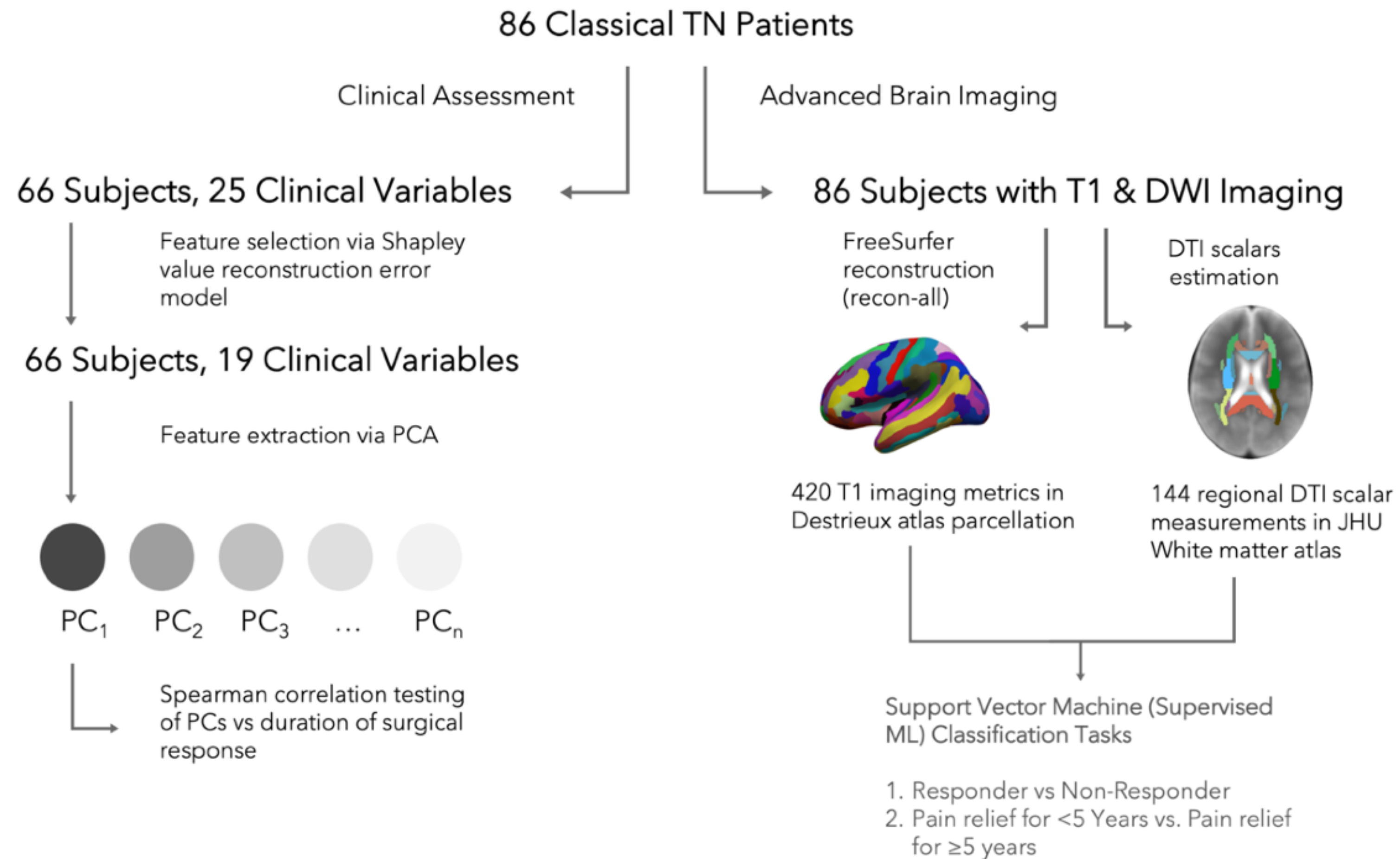
SVM Classification task
10-fold Cross-Validation



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Work in progress

Subjective branch



Objective branch

TN: trigeminal neuralgia, PCA: principal component analysis, PC: principal component, DWI: diffusion weighted imaging, DTI: diffusion tensor imaging, JHU: Johns Hopkins University, ML: machine learning

