







**Data
Collection &
Filtering**

 Data on 4,117 tinnitus patients treated at Tinnitus Center of Charité University Medicine Berlin (2011-15)


 Image data on 74 patients from University hospital Magdeburg; 2 aneurysm types: sidewall+bifurc.

 Select 1,416 patients who completed ADSL, BI, BSF, PSQ, SF8, SOZK, SWOP, TINSKAL, TLQ, TQ at T0 and T1


 Select 1,490 patients who completed ADSL, PSQ, SF8, SOZK, TINSKAL, TLQ, TQ at T0 and T1


Data - Target
 CHA - Tinnitus distress
 CHA - Depression
 AneurD - Rupture status

**Correlational
Analysis**

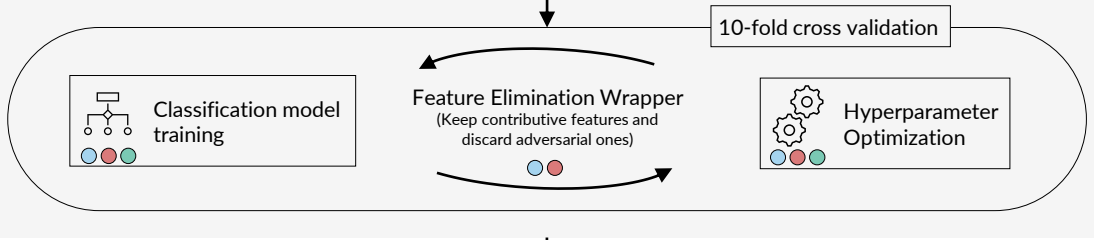
 Correlational Analysis
a) Feature-feature correlations
b) Feature-outcome correlations before (T0) and after treatment (T1)
c) Correlation changes from T0 to T1

**Image
Prepro-
cessing**

 Segmentation & neck curve extraction of 100 aneurysms

 Morphological feature extraction

**Machine
Learning**



**Post-hoc
Analysis**

