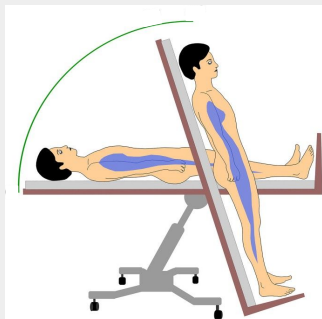
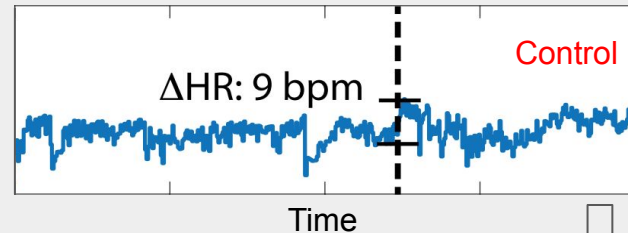
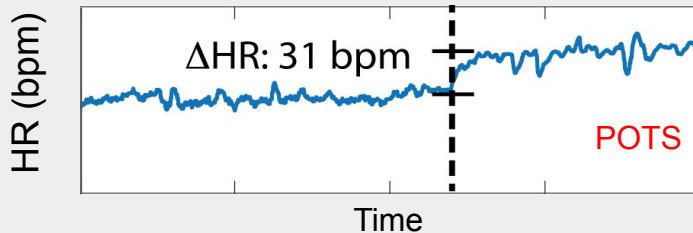


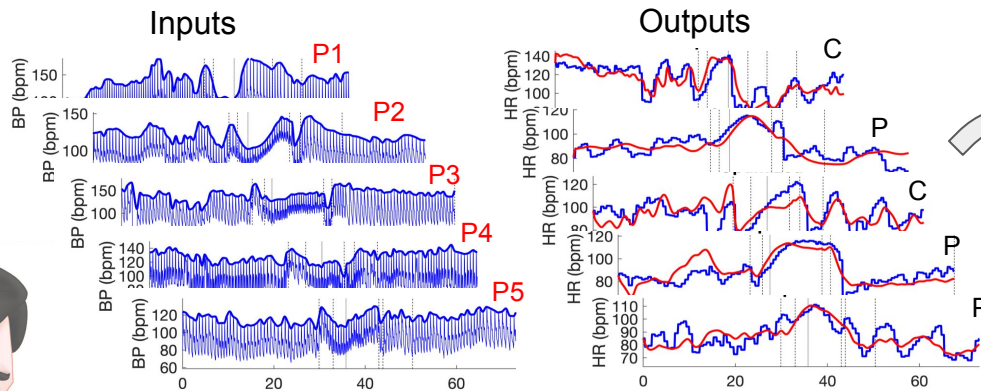
Using modeling and machine learning to characterize POTS



Head-Up Tilt data used to differentiate POTS and control patients



Valsalva maneuver

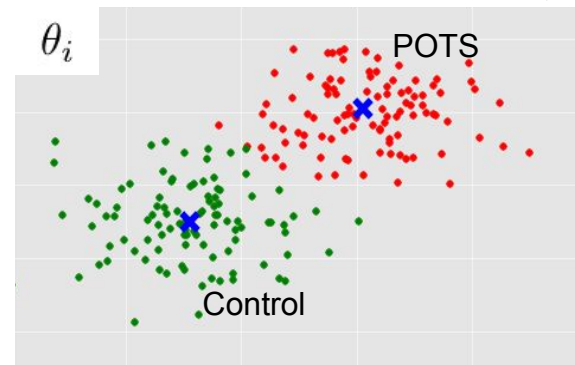


Model

$$\frac{d\bar{x}}{dt} = f(x, t, \theta)$$

Heart Rate = $f(x, t, \theta)$

Can Valsalva be used to identify POTS patients?



Clustering model parameters