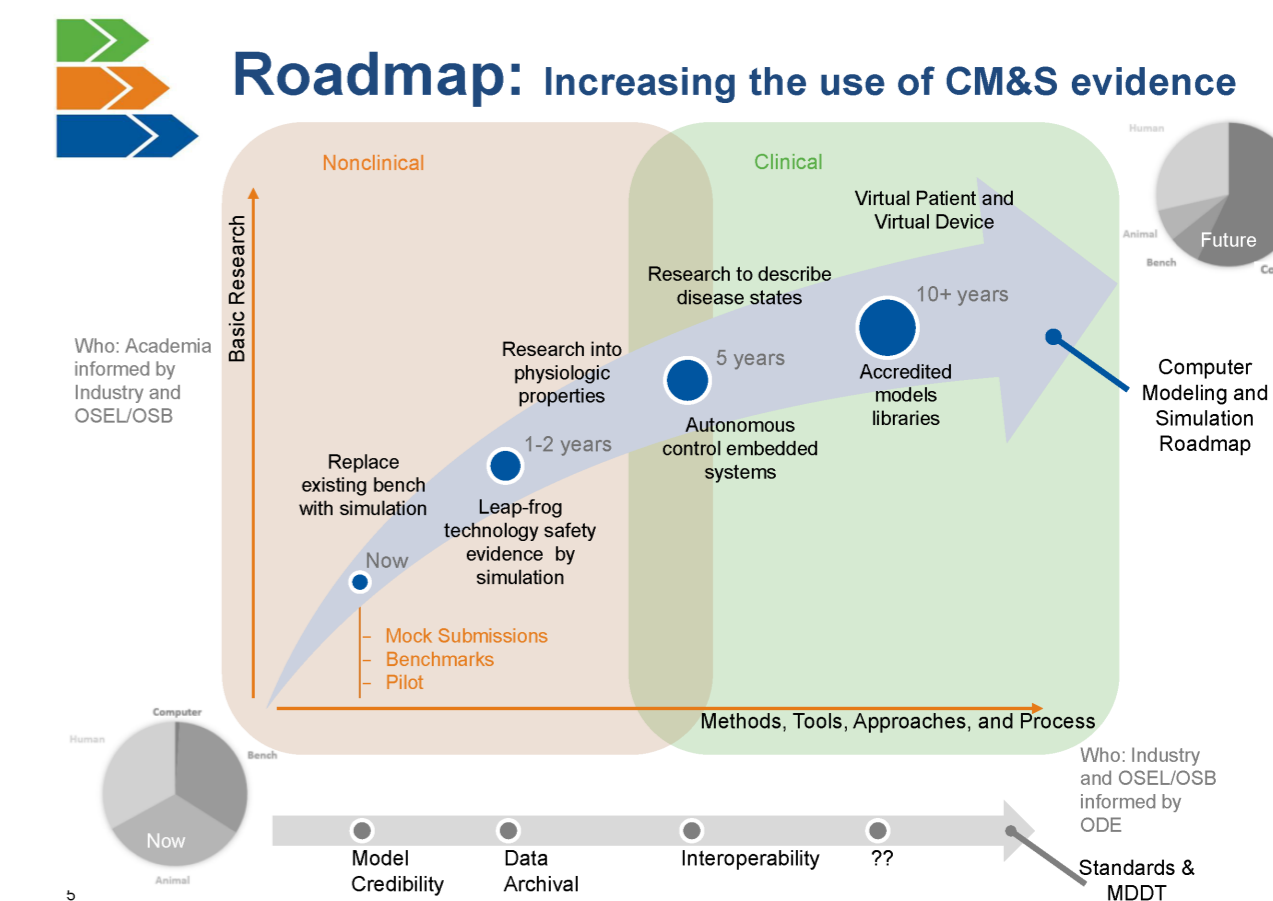
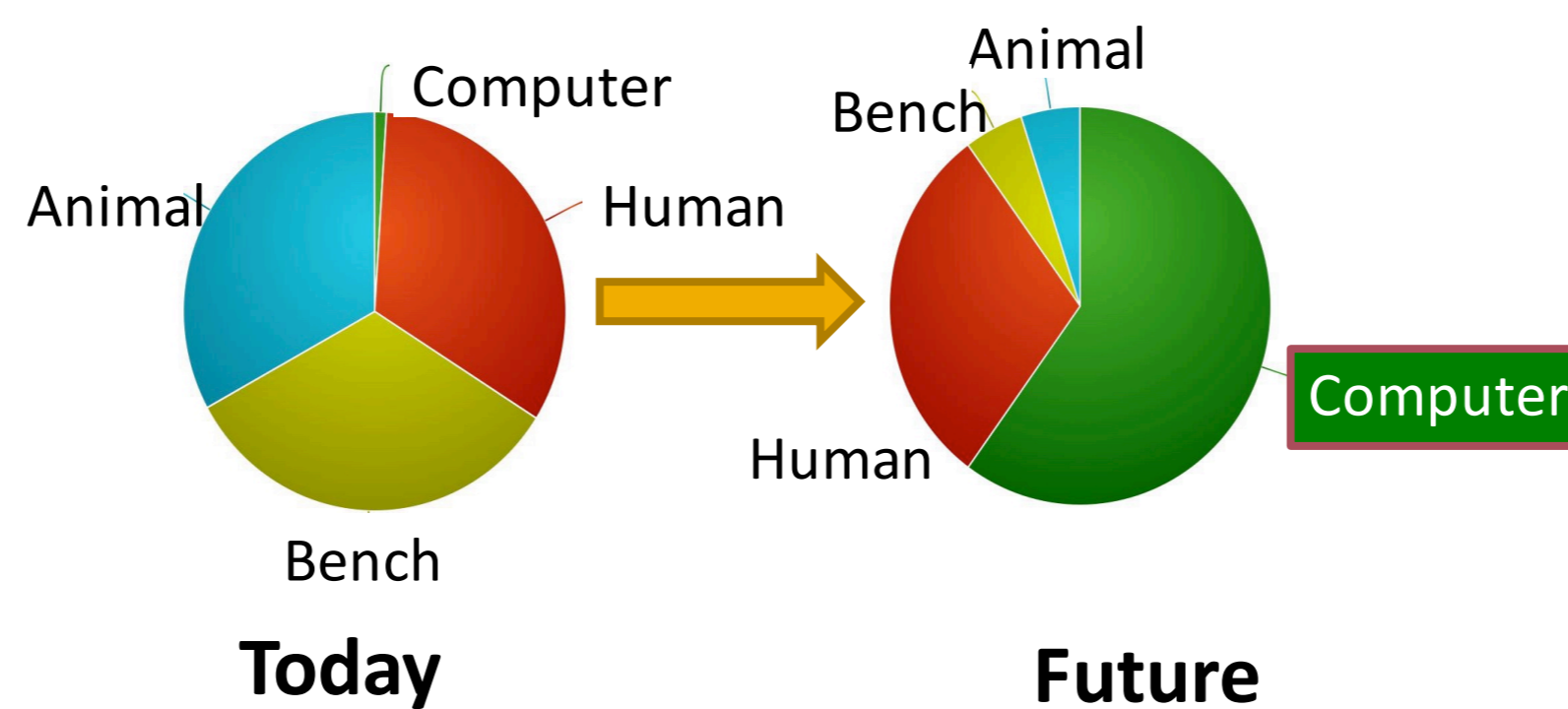
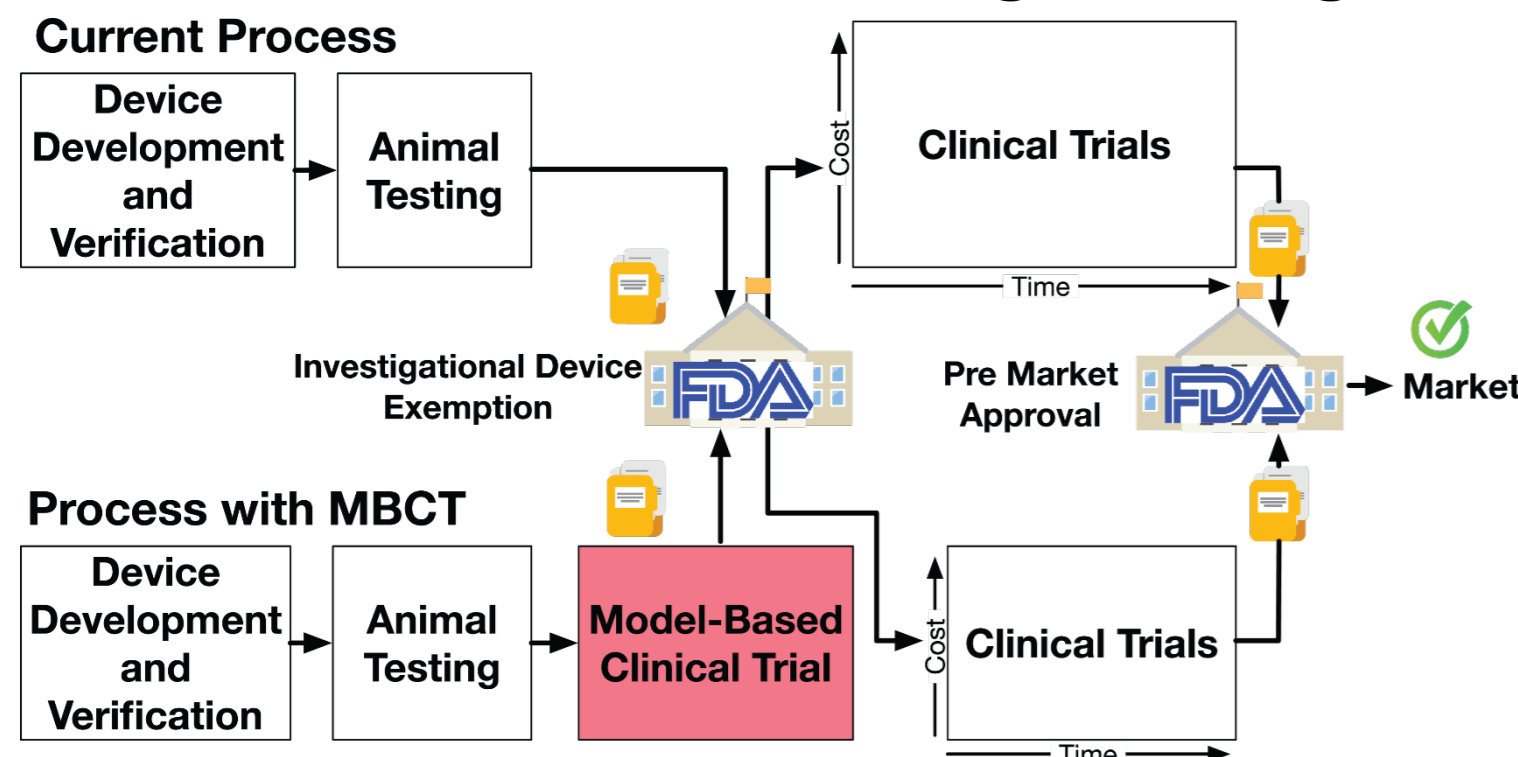


Using modeling and simulation for regulatory-grade evidence for improved outcomes of medical trials

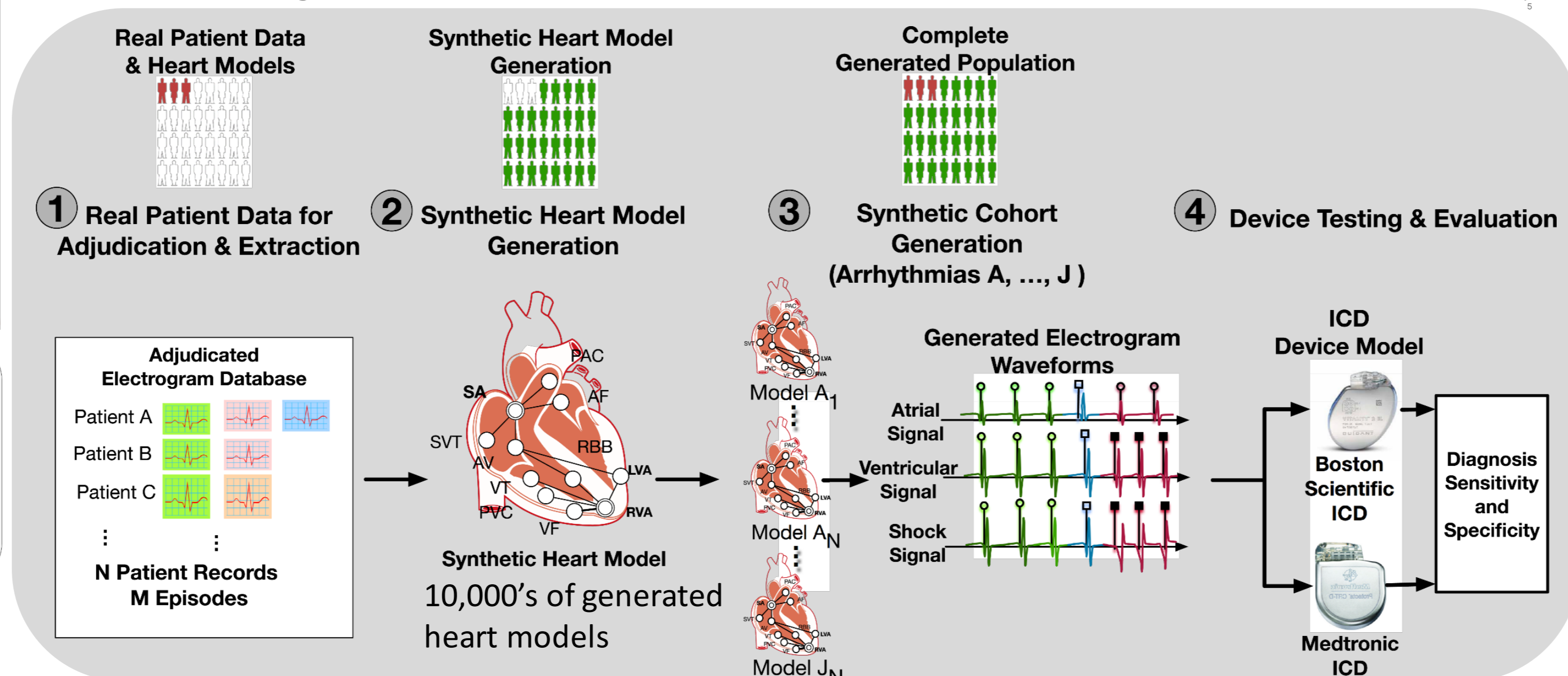
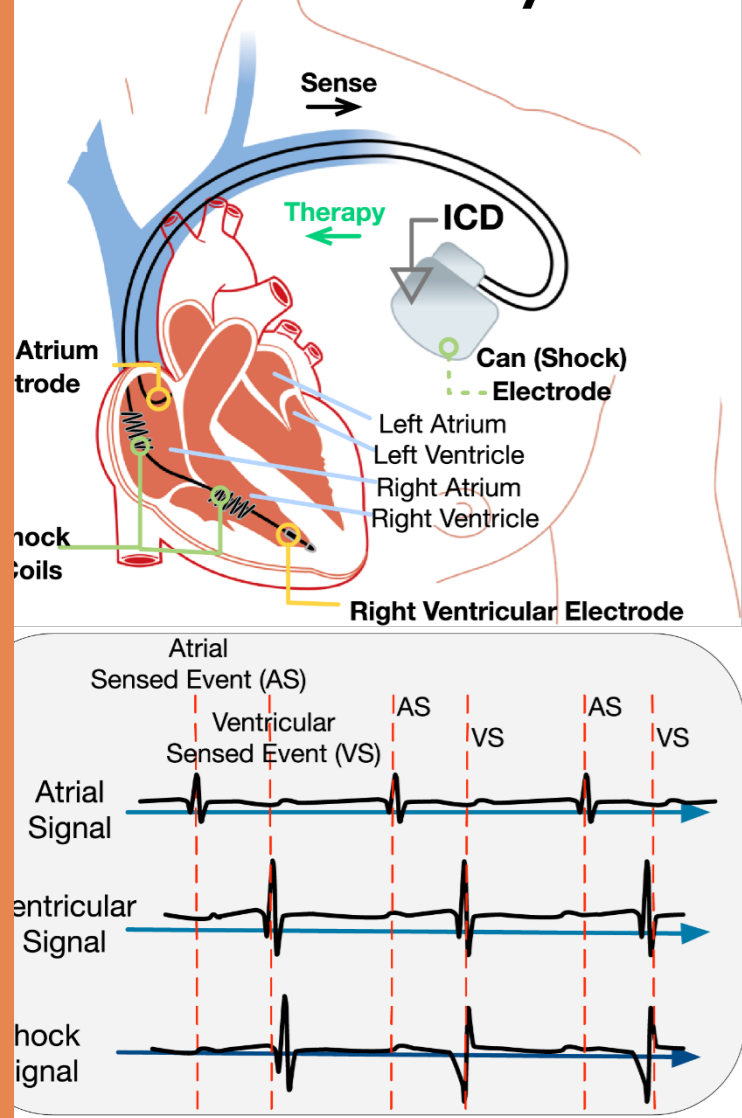


Challenge

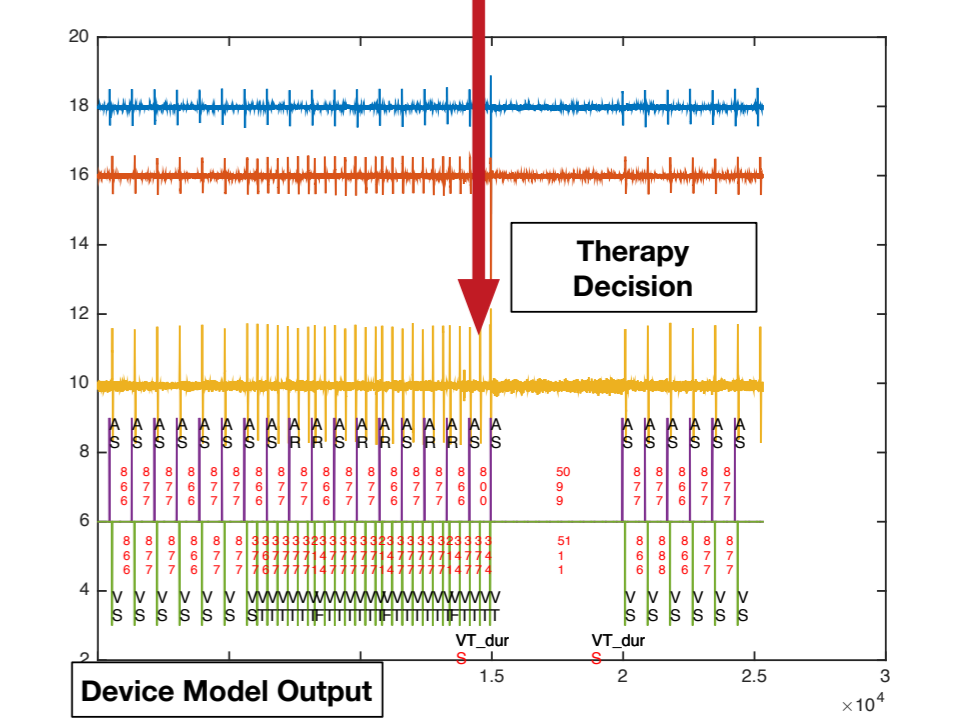
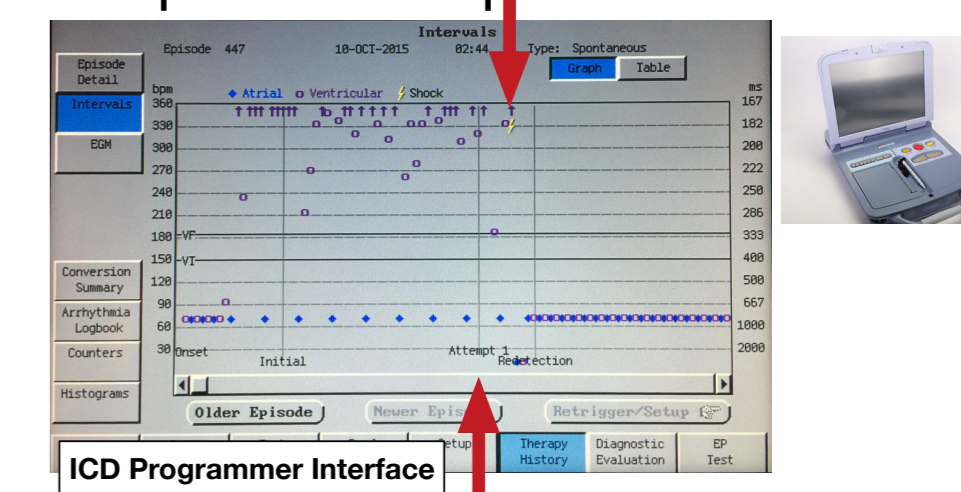
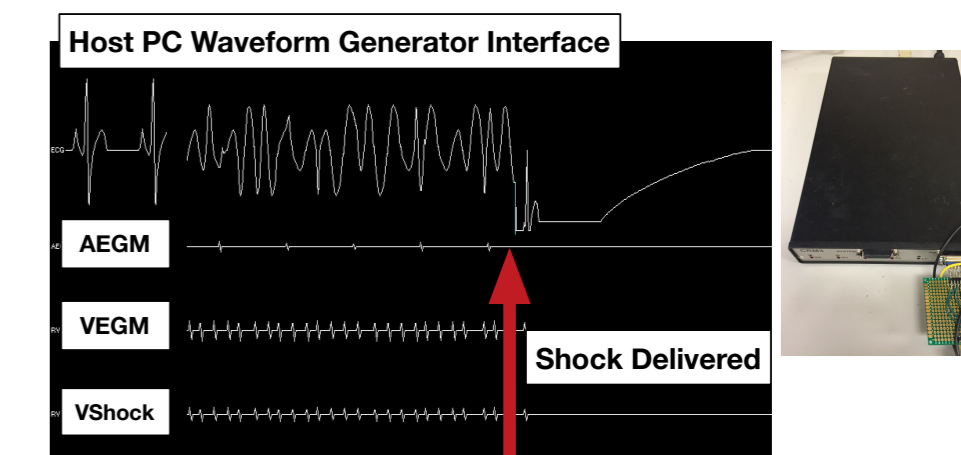
Vision

Closed-loop Modeling

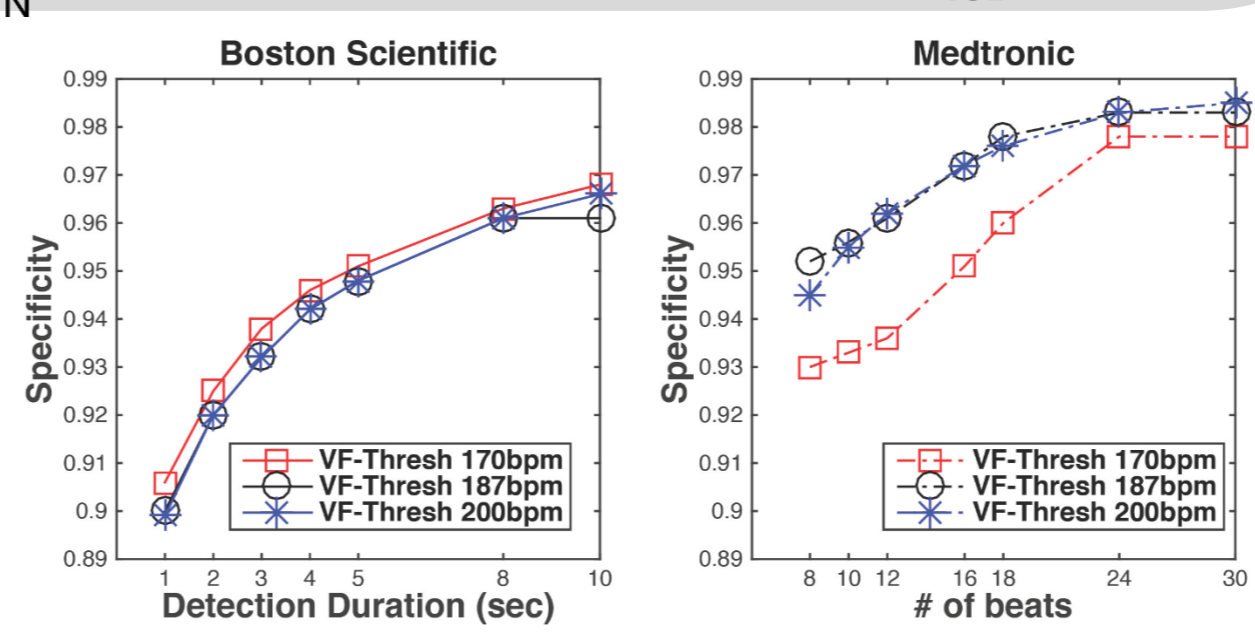
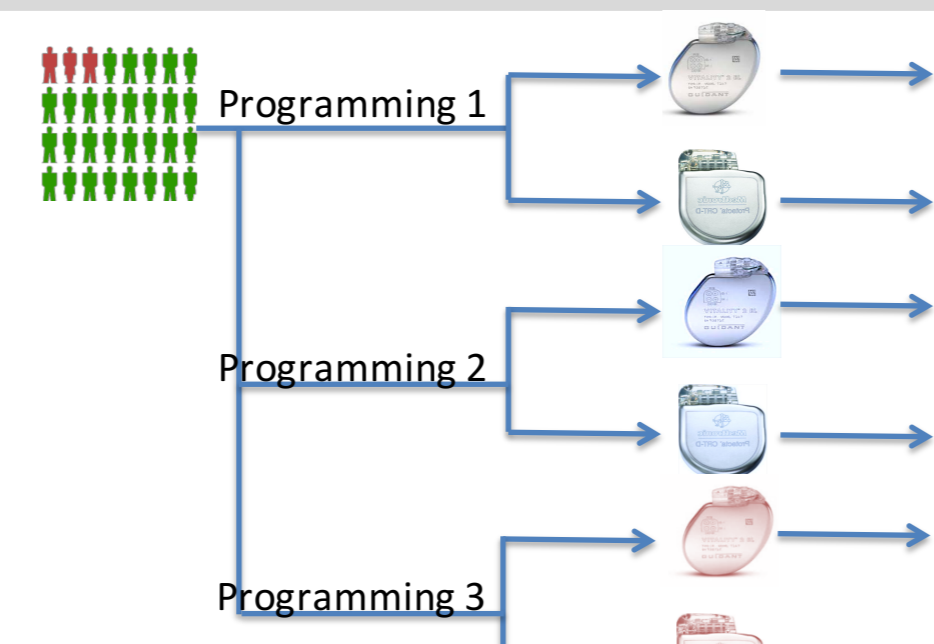
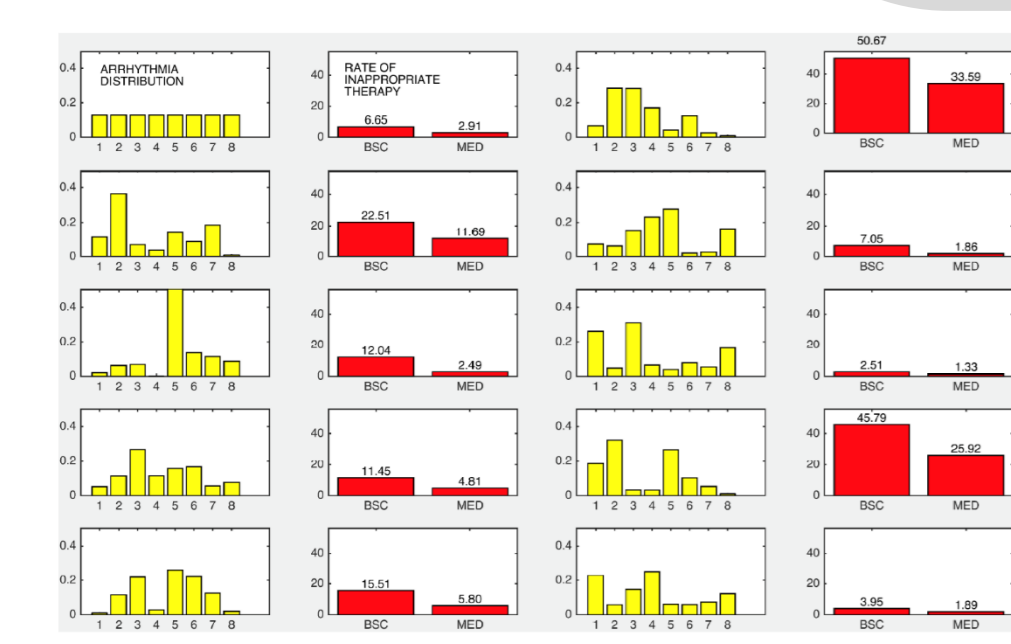
MBCT on arrhythmia discrimination algorithms between Boston Scientific and Medtronic ICDs



Validation Scenario Example (Ventricular Fibrillation)



MBCT Results



(1) Outcome across a range of population distributions

(2) Outcome across a range of device parameter settings

Validation against real device