HESI

ILSI Health and Environmental Sciences Institute

HESI Pro-Arrhythmia Models Workshop
November 2-3, 2005
Crystal City, Virginia

Session II – Dynamics of Periodicity
Focus Questions / Issues

1. Descriptions of QT Dynamics – determine succinct ways to summarize, quantify and describe the dynamics of QT

2. Contrast the QT dynamics under normal conditions, conditions of autonomic perturbation and under the conditions which precede pro-arrhythmia

3. Discuss the models and methods by which the dynamics of QT may be determined in animals in man: choice of species, data collection methods, data analysis methods

4. Identify a limited series of studies which could be conducted to illustrate: (a) the dynamics of QT periodicity under normal conditions, (b) under conditions of altered periodicity not thought to be proarrhythmic e.g. some autonomic perturbations, (c) in the presence of a QT prolonging agent associated with TdP and (d) in the presence of an agent which prolongs QT but is not thought to be proarrhythmic.