CSRC
A Medical Device Industry Perspective
Challenges in Device Development

Innovation Requires Data

– Existing annotated ECG datasets are limited.
– Medical device manufacturers typically cannot sponsor ECG specific endpoint trials.
– Without training and test datasets, it is difficult to advance the science of ECG.
Examples of What Can Be Done

• “Classic” evaluation of moxi and algorithmic QT evaluation.
  – Can demonstrate precision of algorithms with test set evaluation.

• More “exotic” algorithm development.
  – Morphological evaluation/scoring.
  – Alternate interval duration measurements.

• Beyond QT and repolarization.
  – Exercise other interval durations measurement techniques.
  – Establish normal ranges.
Looking Ahead

• Over 3 million ECGs in ECG Warehouse.
  – Small fraction available for research...more should be coming?
  – Mostly TQT studies with HV...as more clinical populations are represented, more interesting questions can be asked.
  – Device companies will gladly participate in any opportunity to obtain access to annotated ECG datasets.