
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.