**Figure Legends**

**Figure 1: Overall randomization scheme for patients enrolled in AIMI-HF**

Does patient need ischemia and/or viability testing?

- **Ischemia Randomization**
  - Standard Imaging
    - • SPECT * perfusion Tc-99m based or Ti-201
  - Advanced Imaging
    - • CMR * perfusion Gd

- **Viability Randomization**
  - Standard Imaging
    - • SPECT viability Tc-99m based or Ti-201
  - Advanced Imaging
    - • PET * perfusion $O^{15}$-H2O, $N^{13}$NH3, Rb-82

Unable to randomize patient?

Enrollment in Clinical Registry

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* if viability is needed after ischemia, the same modality will be used before considering other modalities