

1) Inclusion Criteria

- (1) Seropositivity for T. Cruzi by at least two methods (ELISA, indirect immunofluorescence, indirect hemagglutination)
- (2) NYHA Class II and III
- (3) EF >30% and < 45% by echo and evidence of abnormal LV systolic dimension, wall motion abnormalities and/or apical aneurysm.
- (4) 12 lead ECG evidence of cardiac conduction involvement as defined by the following: RBBB, LAFB, and first degree AV Block (>200 msec).

2) Exclusion Criteria

- (1) History of Syncope in the last 6 months
- (2) No evidence of CAD
- (3) NYHA Class IV
- (4) Documented spontaneous sustained ventricular arrhythmias or history of Cardiac Arrest
- (5) Sinus Bradycardia or AV conduction disturbances requiring Pacemaker Implantation
- (6) Prior ICD or Pacer Implant
- (7) Other comorbidities likely to affect one year survival
- (8) Inability to be followed by device interrogations

Eligible patients will be randomized to one of two arms

• **ARM 1: CRT-D Implantation**

- CRT-D (LV lead location guidelines to be discussed) AV interval to be guided by QRS morphology
- Two Therapy Zones
 - 170 to 200 bpm
 - 60 sec delay for therapy initiation
 - ATP (minimum 3 bursts, starting at 84% CL) followed by Quick ATP and shock
 - >200bpm
 - 5 sec delay for therapy initiation
 - Quick ATP followed by shock
- Best Practice management for use of ACE, beta blockers, anticoagulation and Amiodarone if needed

- **ARM 2: Medical Therapy**

- Best Practice management for use of ACE, beta blockers, anticoagulation and Amiodarone if needed

300 Patients randomized 1:1 to each arm

- Mean Follow Up, 12 to 24 months
- Intention to treat analysis
- **Primary Endpoint:** Echocardiography evidence of reverse remodeling
- **Secondary Endpoint:** Composite of Death and Cardiac Related Hospitalization
- Hypothesis: LV remodeling expressed as 10% reduction in LVEDV and 15% reduction in LVESV (underpowered to show clinical effect but hopefully will show reduction in cardiac events which will lead to a larger ICD trial)