96 persistent AF patients with HF who have indication for ICD/CRTD implantation were included from 2010.1 to 2018.3.

Patients with consent of AVN ablation

NO

Patients for ICD implantation attempts and optimal drug therapy, n=35

YES

Patients for HPSP attempts and AVN ablation, n=61

1 patient with failed AVN ablation

2 patients with failed HPSP

Patients with ICD implantation and drug therapy (Group 1, n=36)

4 patients underwent AVN ablation with HPSP because of IS or refractory HF

Patients with AVN ablation and HPSP (Group 2, n=62)

Figure 1. Schematic summary of study and patient flow
AF indicates atrial fibrillation; HF, heart failure; ICD, implantable cardioverter defibrillator; CRTD, cardiac resynchronization therapy defibrillator; AVN, atrioventricular node; HPSP, His-Purkinje conduction system pacing; IS, inappropriate shock.

A

B

C

D

Figure 2. Paired LVEF/LVESV at baseline and during follow-up.
A-B, LVEF and LVESV of all patients in group 1/group 2 at baseline and during follow up; C-D, LVEF and LVESV of patients with baseline EF≤40% in group 1/group 2 at baseline and during follow up; LVEF, left ventricular ejection fraction; LVESV, left ventricular end-systolic volume.