LVEF was 26±6%. By univariate comparison, LVDD ≥ 65mm (p=0.035) and lack of diuretic (p=0.024) were significant predictors for ICD therapy. ICM and NIDCM patients benefit equivalently from ICD implantation (p=0.941). By multivariate analysis, elderly patients ≥65y (HR 1.92, p=0.032), LVDD ≥ 65mm (HR 2.01, p=0.022) and lack of diuretic (HR 0.31, p<0.001) were all significant independent predictors for ICD therapy. Absence of CRT device was close to be significant (HR 0.53, p=0.062), but was significant in NIDCM population (p=0.007). Onset atrial fibrillation (p=0.027) and hospitalization for acute heart failure (p=0.002) were significantly associated with ICD-delivered therapy.

Conclusions: ICD therapy occurred in 17.7% of primary prevention patients with both ICM and NIDCM. In multivariate analysis, age ≥ 65y, LVDD ≥ 65mm and absence of diuretic were predictive factors for ICD therapy. Presence of CRT device was close to be significant. There was no difference by considering heart failure etiology, ICM and NIDCM patients benefited from ICD equivalently.

0299
Use of clinical follow-up and pacemaker memories to define predictors of complete atrio-ventricular block or sudden death after balloon-expandable transcatheter aortic valve implantation
Guillaume Viart, Frédéric Anselme, Eric Durand, Arnaud Savouré, Nathanaël Auquier, Guillaume Cellier, Hélène Eltchaninoff
CHU Rouen, Cardiologie, Rouen, France

Backgrounds: Predictors of atrio-ventricular block (AVB) after transcatheter aortic valve implantation (TAVI) have been described as those leading to syncope or permanent pacemaker implantation (PPI), and thus have been assimilated to criterias used by the investigators for pacemaker implantation.
Aims: Evaluating the true predictors of AVB following TAVI, using clinical follow-up and devices’ memories.
Methods: Between 2011 and 2013, 213 patients without previous PPI underwent TAVI with an Edwards SAPIEN XT balloon-expandable valve using a femoral approach, in our institution. All patients had continuous cardiac rhythm monitoring ≥24 hours after TAVI. ECG was performed the following 2 days after TAVI, and 1 month later. Median follow-up for pacemaker interrogation was 8 months.
Results: Complete AVB occurred in 22 patients (10.3%), sudden death in 8 patients (3.8%). Pacemaker was implanted in 26 patients (12.2%). For 20 of them (77%), pacemaker memories showed complete AVB episodes or ≥2% ventricular pacing, despite the use of a minimizing ventricular pacing algorithm. Results of the multivariate analysis are shown below.

Conclusions: Our findings confirmed pre-existing RBBB and new persistent LBBB as predictors of AVB following TAVI. We also demonstrated here for the first time, first degree AVB is an independent predictive factor of severe conduction disorders after TAVI.

0340
Predictive factors of appropriate shock therapy in patients with implantable cardioverter defibrillator
Sahar Mouram (1), Mohamed Belhameche (2)
(1) Hôpital de Jossigny, Cardiologie, Électrophysiologie, Marne la Vallée, France – (2) Hôpital de Jossigny, Cardiologie, Marne la Vallée, France

Background: Electrical storm is an increasingly common and life-threatening syndrome that is defined by 3 or more sustained episodes of ventricular tachycardia, ventricular fibrillation, or appropriate shocks from an implantable cardioverter-defibrillator within 24 hours. The clinical presentation can be dramatic. Appropriate shock therapy (AST) occurs in the minority of patients with implantable cardioverter defibrillators (ICDs). We assessed which patients received AST and whether there were any predictive factors.

Methods: We retrospectively analysed data from 13 patients implanted with ICDs at our institution who received AST. Stored electrogram data were analysed. Various clinical echocardiographic and electrophysiological variables were studied.
Results: Impaired LV function was the most important factor significantly associated with AST.
Conclusion: Certain pre-procedural variables predict AST. It is important to determine them to predict which patients will receive shock therapy.