BUDAPEST CRT Upgrade trial #ESCCongress

CRT upgrade in HF with RV pacing

Conclusion



Upgrade to cardiac resynchronisation therapy with a defibrillator (CRT-D) reduces morbidity and mortality and improves left ventricular reverse remodelling in select patients with heart failure and reduced ejection fraction (HFrEF) and intermittent or permanent right ventricular (RV) pacing.

Impact on clinical practice



HFrEF patients with a pacemaker or ICD should be strictly followed in clinical practice and in those with intermittent or permanent RV pacing, a CRT upgrade should be performed immediately without deferring the procedure to a later date (e.g. battery replacement).

Study objectives



BUDAPEST CRT Upgrade was the first trial to compare the efficacy and safety of a CRT upgrade, compared to ICD alone, in HFrEF patients with a pacemaker or ICD and intermittent or permanent RV pacing.

Study population

HFrEF patients

- with ejection fraction ≤35%
- had received a pacemaker or ICD >6 months previously
- had HF symptoms
- had a wide paced QRS complex
- had a high burden of RV pacing
- treated with guideline-directed medical therapy

Patients were excluded if they were eligible for CRT according to current guidelines

Where?



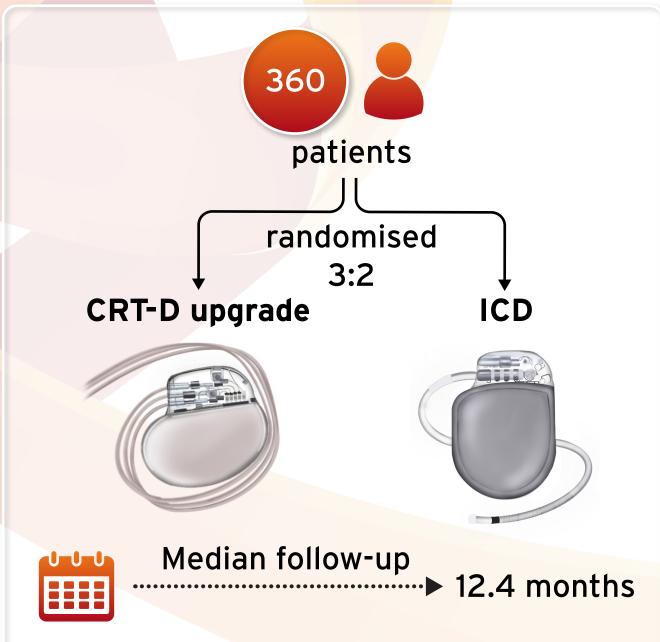
countries



■ 17 sites

78.9%

Who and what?



Primary endpoint

Composite of HF hospitalisation, all-cause mortality, or <15% reduction of left ventricular end-systolic volume



Rate%

32.4%



Adjusted odds ratio 0.11 95% CI 0.06-0.19; p<0.001

Secondary endpoint

Composite of HF hospitalisation and all-cause mortality reduced with







Adjusted hazard ratio 0.28 95% CI 0.17-0.46; p<0.001

