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Procedural safety and long-term follow-up after pacemaker implantation in nonagenarians

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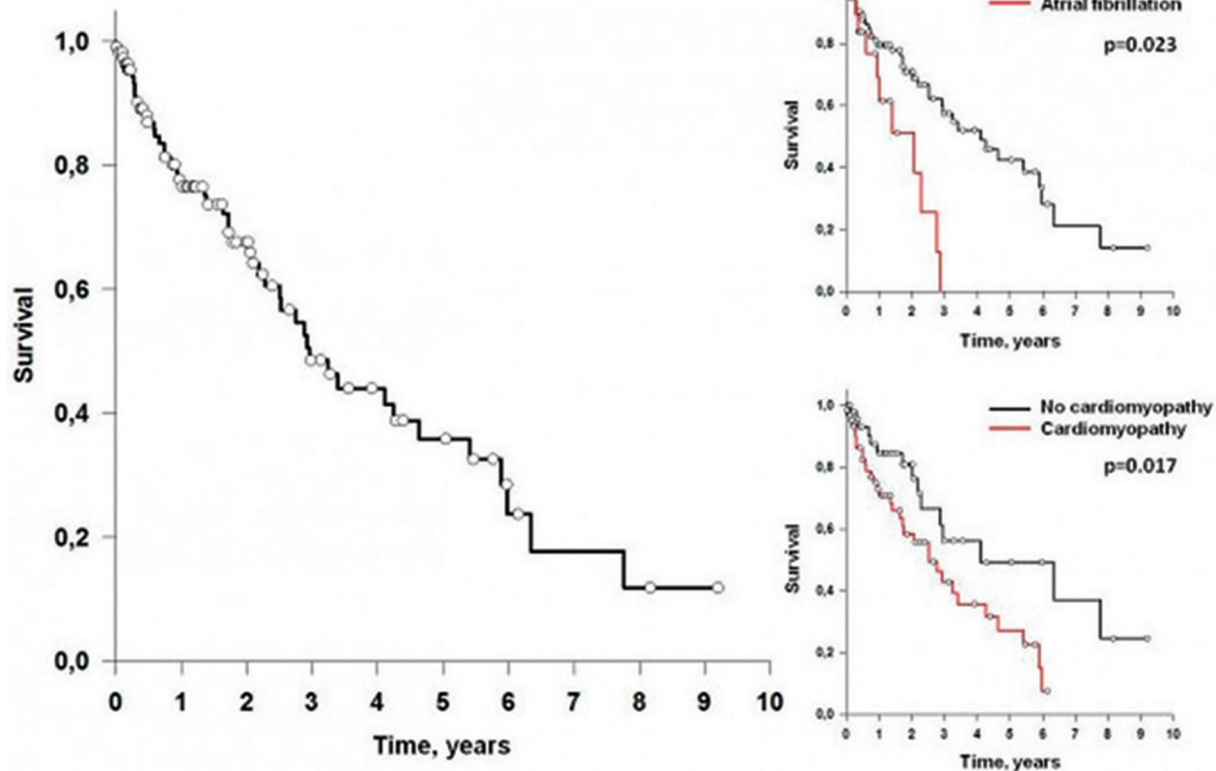
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Introduction: The rate of pacemaker(PM) implantations is continuously growing. A large number of nonagenarian patients will be implanted in the future. We aimed at analyzing the outcome after PM implantation in the elderly.

Methods: Patients aged ≥ 90 yo referred for PM implantation from 2004 to 2014 were retrospectively included. The primary clinical endpoint was total mortality.

Results: 113 patients were included (92.6 ± 2.1 yo). Five patients (3.5%) had short-term device-related complications (3 pocket hematoma, 1 lead displacement, 1 hemothorax). During the follow-up, 48 patients (42.5%) died. Survival rates were 77.4% (95%CI:67.4-84.7%), 68.7% (95%CI:57.4-77.6%) and 36.4% (95%CI:23.3-49.7%) after 1, 2 and 5 years, respectively. Atrial fibrillation (OR 3.5,95%CI:1.6-7.2) and a cardiomyopathy (OR 2.3,95%CI:1.2-4.4) at the time of implantation were independent predictors of mortality.

Conclusion: PM implantation in nonagenarians is safe, with a low risk of procedural complications.



Abstract 0346-Figure: Survival for nonagenarians after PM implantation

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