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Simultaneous combined interventional percutaneous left atrial auricle and atrial septal defect closure

A 79-year-old man presented with atrial fibrillation, cerebral embolic events and intracerebral bleeding under oral anticoagulation and a haemodynamically significant secundum atrial septal defect (ASD) for percutaneous closure of the left atrial auricle (LAA). Simultaneous interventional therapy was chosen for both sites.

First, the LAA was seeded using the PLAATO system (ev3, Minnesota, USA), then the ASD was closed with an 15 mm Amplatzer septal occluder system (AGA Medical Corporation, Minnesota, USA). The whole procedure was completed in 1.5 hours; the post-procedural course was uneventful and the patient was discharged the next day.

Percutaneous LAA and ASD closure is a non-surgical alternative in patients with this combination of conditions.

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The PLAATO system.

PLAATO device

Amplatzer septal occluder