

One-stop procedure of “atrial fibrillation radiofrequency ablation + left atrial appendage closure” guided by 3D printing technology:A Case Report

Nuohan Liao¹, qin zuoan², Li Luo², and Liangqing Ge²

¹University of South China

²The First People’s Hospital of Changde City

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Abstract

Background: Left atrial appendage occlusion (LAAO) in the treatment of atrial fibrillation (AF) has become a hot topic in clinical research in recent years. **Case presentation:** we report a 68-year-old female patient who was admitted for “recurrent palpitations for three years,” with an electrocardiogram finding of atrial fibrillation (Figure [1](#fig-cap-0001)). The diagnosis upon admission was: (1) arrhythmia: paroxysmal AF (CHA2DS2-VASc: 4 points, HAS-BLED: 3 points), (2) Grade 3 hypertension, and (3) carotid plaque with internal carotid artery stenosis. The patient had a history of AF for three years with poor drug treatment effect. The patient was unable to tolerate anticoagulation therapy. We gave the patient a one-stop procedure treatment of “AF radiofrequency ablation + LAAO” under the guidance of 3D printing technology. There was no recurrence of AF or paravalvular leakage at the three-month and one-year follow-ups. **Conclusions:** The 3D printing technology guide the one-stop operation of “AF radiofrequency ablation + LAAO” is helpful. But it whether can improve the prognosis and quality of life of patients, further multi-center research and large data statistics are required.

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