Acute occlusion of a branch of left circumflex artery after radiofrequency catheter ablation for atrial tachycardia

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**Introduction**: There are a few reports on acute occlusion of coronary arteries after radiofrequency catheter ablation. But their mechanism and incidence are not still well known.

**Methods**: We performed the catheter ablation for mitral atrial tachycardia occurred after the ablation for paroxysmal atrial fibrillation. In the session, we performed radiofrequency ablation on mitral isthmus line and in coronary sinus.

**Result**: After the last ablation session, we found that a branch of left circumflex artery was occluded. In this case, creatine kinase was slightly elevated, but the patient had no chest complaints, and no ECG changes were observed.

**Conclusion**: We experienced acute occlusion of a branch of left circumflex artery after catheter ablation in coronary sinus. In this case report, we discuss the mechanism and incidence of this complication after catheter ablation, and how to avoid and manage it.