

# Clinical trials of catheter ablation

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## 1 atrial fibrillation

Trial	Treatments	Patients	Trials design and methods
<b>catheter ablation vs control</b>			
<b>Forleo , 2009</b> n=35/35 follow-up: 12 months	pulmonary vein isolation versus antiarrhythmic drug treatment	patients with diabetes mellitus type 2 and paroxysmal or persistent AF	Parallel groups open Italy
<b>A4 (Jais) , 2008</b> [NCT00540787] n=53/59 follow-up: 12 months	catheter ablation versus antiarrhythmic drugs	patients with paroxysmal AF resistant to at least 1 antiarrhythmic drug.	Parallel groups open France,Canada, USA
<b>ThermoCool AF , 2008</b> [NCT00116428] n=106/61 follow-up: 9 months	catheter ablation versus antiarrhythmic drug therapy with a class I or III drug	patients with AF who were nonresponsive to previous treatment with antiarrhythmic drugs	Parallel groups open
<b>Oral , 2006</b> n=77/69 follow-up: 12 months	circumferential pulmonary-vein ablation and amiodarone versus amiodarone and two cardioversions during the first three months alone	patients with chronic atrial fibrillation	Parallel groups open Italy, USA
<b>APAF (Pappone) , 2006</b> n=99/99 follow-up: 12 months	left atrial catheter ablation versus 65279;Flecainide acetate, propafenone hydrochloride, or sotalol hydrochloride	65279;Drug-refractory paroxysmal AF >=6mo	Parallel groups open Italy
<b>CAFCOAF (Stabile) , 2006</b> n=68/69 follow-up: 12 months	left atrial catheter ablation plus amiodarone or other drugs versus Amiodarone or other drugs	Drug-refractory or drug-intolerant paroxysmal or persistent AF	Parallel groups open blinded assessment Italy
<b>Lakkireddy , 2006</b> n=138/139 follow-up:	-	-	Parallel groups USA
<b>Wazni , 2005</b> n=32/35 follow-up: 12 months	Pulmonary vein isolation versus Flecainide, propafenone, or sotalol; amiodarone if needed	Drug-naive monthly symptomatic AF >=3mo	Parallel groups open USA, Italy,Germany

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Krittayaphong , 2003</b> n=15/15 follow-up: 12 months	left atrial catheter ablation versus amiodarone	drug-refractory amiodarone-naive paroxysmal or persistent AF >=6mo	open Thailand
<b>CABANA</b> <i>ongoing</i> [NCT00911508].] n=3000 follow-up:	left atrial catheter ablation versus current state-of-the-art therapy with either rate control or rhythm control drugs	patients with untreated or incompletely treated AF	Parallel groups open
<b>MANTRA-PAF</b> <i>ongoing</i> [NCT00133211] n=NA follow-up: 2 years	Radiofrequency Ablation versus Medical Antiarrhythmic Treatment	Paroxysmal Atrial Fibrillation	Parallel groups open
<b>RESOLVE-AF</b> <i>ongoing</i> [NCT00111488] n=200 follow-up:	Surgical Ablation with Microwave Energy versus control	patientst with permanent atrial fibrillation	Parallel groups open

More details and results :

- catheter ablation for atrial fibrillation in all type of patients at <http://www.trialresultscenter.org/go-Q320>

## References

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### ThermoCool AF, 2008:

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Wilber DJ, Pappone C, Neuzil P, De Paola A, Marchlinski F, Natale A, Macle L, Daoud EG, Calkins H, Hall B, Reddy V, Augello G, Reynolds MR, Vinekar C, Liu CY, Berry SM, Berry DA Comparison of antiarrhythmic drug therapy and radiofrequency catheter ablation in patients with paroxysmal atrial fibrillation: a randomized controlled trial. *JAMA* 2010;303:333-40 [20103757]

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Oral H, Pappone C, Chugh A, Good E, Bogun F, Pelosi F Jr, Bates ER, Lehmann MH, Vicedomini G, Augello G, Agricola E, Sala S, Santinelli V, Morady F Circumferential pulmonary-vein ablation for chronic atrial fibrillation. *N Engl J Med* 2006;354:934-41 [16510747] [10.1056/NEJMoa050955](https://doi.org/10.1056/NEJMoa050955)

### APAF (Pappone), 2006:

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**CAFCOAF (Stabile), 2006:**

Stabile G, Bertaglia E, Senatore G, De Simone A, Zoppo F, Donnici G, Turco P, Pascotto P, Fazzari M, Vitale DF Catheter ablation treatment in patients with drug-refractory atrial fibrillation: a prospective, multi-centre, randomized, controlled study (Catheter Ablation For The Cure Of Atrial Fibrillation Study). *Eur Heart J* 2006;27:216-21 [[16214831](#)] [10.1093/eurheartj/ehi583](#)

**Lakkireddy, 2006:**

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**Wazni , 2005:**

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**Krittayaphong, 2003:**

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**CABANA, :**

ongoing trial NCT00911508).

**MANTRA-PAF, :**

ongoing trial NCT00133211

**RESOLVE-AF, :**

ongoing trial NCT00111488

## 2 ventricular tachycardia in patients with structural heart disease

Trial	Treatments	Patients	Trials design and methods
<b>catheter ablation before ICD vs no ablation</b>			
<b>VTACH , 2009</b> [NCT00919373] n=54/56 follow-up: 27 mo	catheter ablation for ventricular tachycardia (VT) plus implantable cardioverter defibrillator versus implantable cardioverter defibrillator alone	Patients undergoing implantation of an ICD Patients undergoing implantation of an ICD	Parallel groups open Europe

continued...

Trial	Treatments	Patients	Trials design and methods
SMASH-VT , 2007 [ISRCTN62488166] n=64/64 follow-up: 22.5 mo	defibrillator implantation with adjunctive catheter ablation versus defibrillator implantation alone	patients with a history of a myocardial infarction undergoing defibrillator implantation for spontaneous ventricular tachycardia or fibrillation	Parallel groups open

More details and results :

- catheter ablation of ventricular tachycardia for ventricular tachycardia in patients with structural heart disease in all type of patients at <http://www.trialresultscenter.org/go-Q382>

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## 3 patients with implantable cardioverter defibrillators

Trial	Treatments	Patients	Trials design and methods
<b>catheter ablation before ICD vs no ablation</b>			
VTACH , 2009 [NCT00919373] n=54/56 follow-up: 27 mo	catheter ablation for ventricular tachycardia (VT) plus implantable cardioverter defibrillator versus implantable cardioverter defibrillator alone	Patients undergoing implantation of an ICD Patients undergoing implantation of an ICD	Parallel groups open Europe
SMASH-VT , 2007 [ISRCTN62488166] n=64/64 follow-up: 22.5 mo	defibrillator implantation with adjunctive catheter ablation versus defibrillator implantation alone	patients with a history of a myocardial infarction undergoing defibrillator implantation for spontaneous ventricular tachycardia or fibrillation	Parallel groups open

More details and results :

- catheter ablation for patients with implantable cardioverter defibrillators in all type of patients at <http://www.trialresultscenter.org/go-Q384>

## References

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Reddy VY, Reynolds MR, Neuzil P, Richardson AW, Taborsky M, Jongnarangsin K, Kralovec S, Sediva L, Ruskin JN, Josephson ME Prophylactic catheter ablation for the prevention of defibrillator therapy. N Engl J Med 2007;357:2657-65 [18160685]