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2015-hhh

Arrhythmias & Heart Failure: New Insights & Technological Advances

Palais du Pharo, Marseille, France May 28–30, 2015

Catheter ablation for Paroxysmal Atrial Fibrillation: The Vietnam Heart Institute Experience

Pham Tran Linh, MD, FAPHRS Vietnam Heart Institute, Hanoi

Indications for Catheter AF Ablation

- Symptomatic AF refractory or intolerant to at least one Class I or III antiarrhythmic medication
- In rare clinical situations, it may be appropriate as first-line therapy
- Selected symptomatic patients with heart failure and/or reduced ejection fraction
- Presence of a left atrial thrombus is contraindication to catheter ablation of AF

Patient Selection for Ablation

50 pts with symptomatic PaAF referred to us between Oct '09 and September '13.

Inclusion criteria

- At least ONE WEEKLY episode of PaAF.
- At least Two or More AADs unable to control symptoms

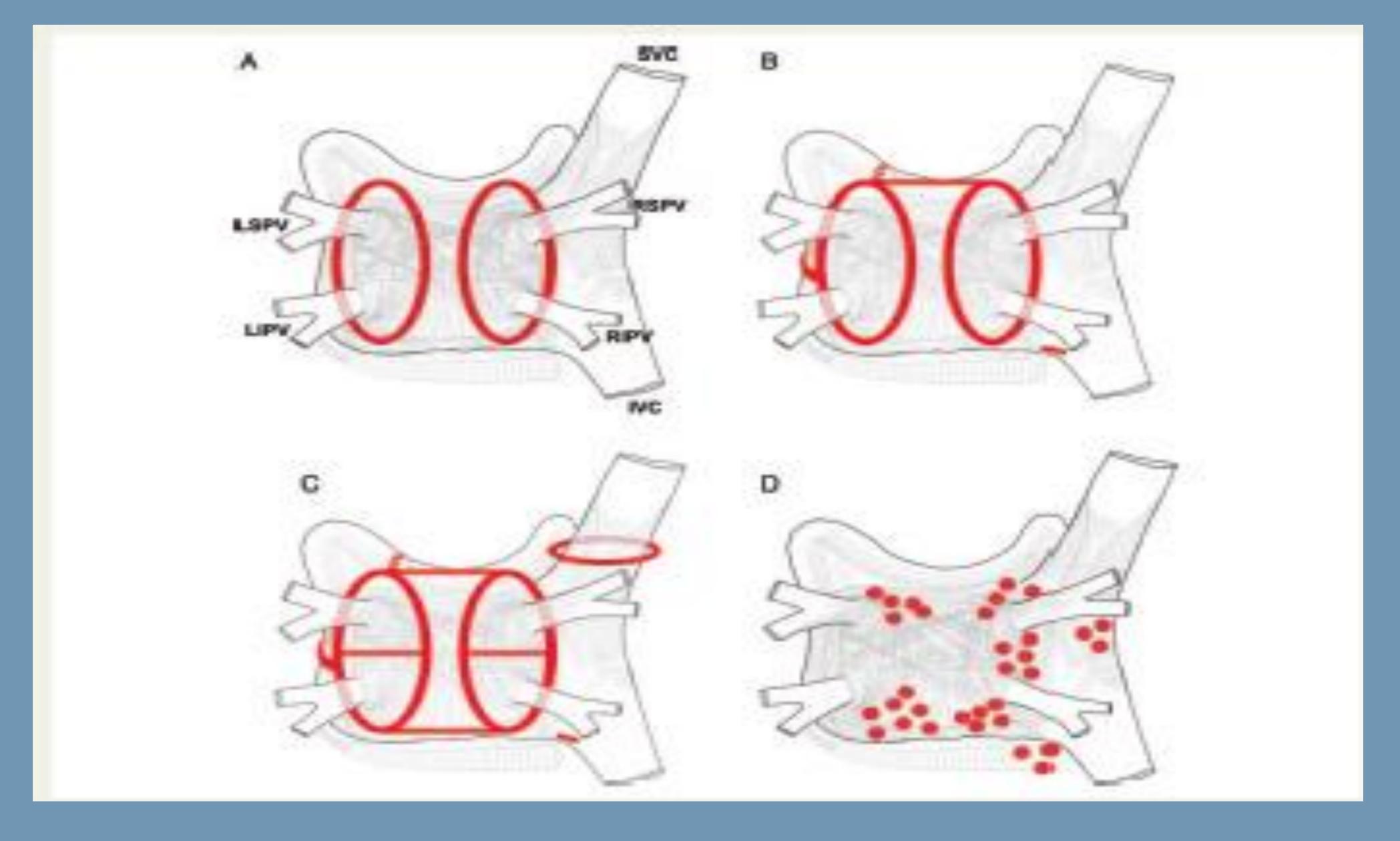
Exclusion criteria

- Age >75 yrs
- Congestive HF
- NYHA class III or IV
- *LVEF* ≤35%
- *LA* diameter ≥ *50 mm*
- CARDIAC THROMBUS
- Life expectancy <1 yr
- CCH surgery < 3 mo or PROSTHETIC valves

Ablation Techniques

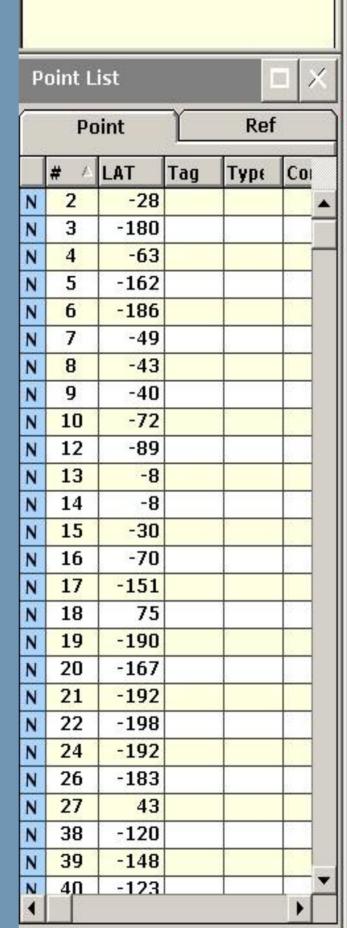
- Ablation strategies that target PVs and/or PV antrum are cornerstones for most AF ablation procedures
- If PVs are targeted, complete electrical isolation should be goal
- For surgical PV isolation, entrance and/or exit block should be demonstrated
- Careful identification of PV ostia is mandatory to avoid ablation within PVs
- If focal trigger is identified outside PV at time of AF ablation procedure, it should be targeted if possible

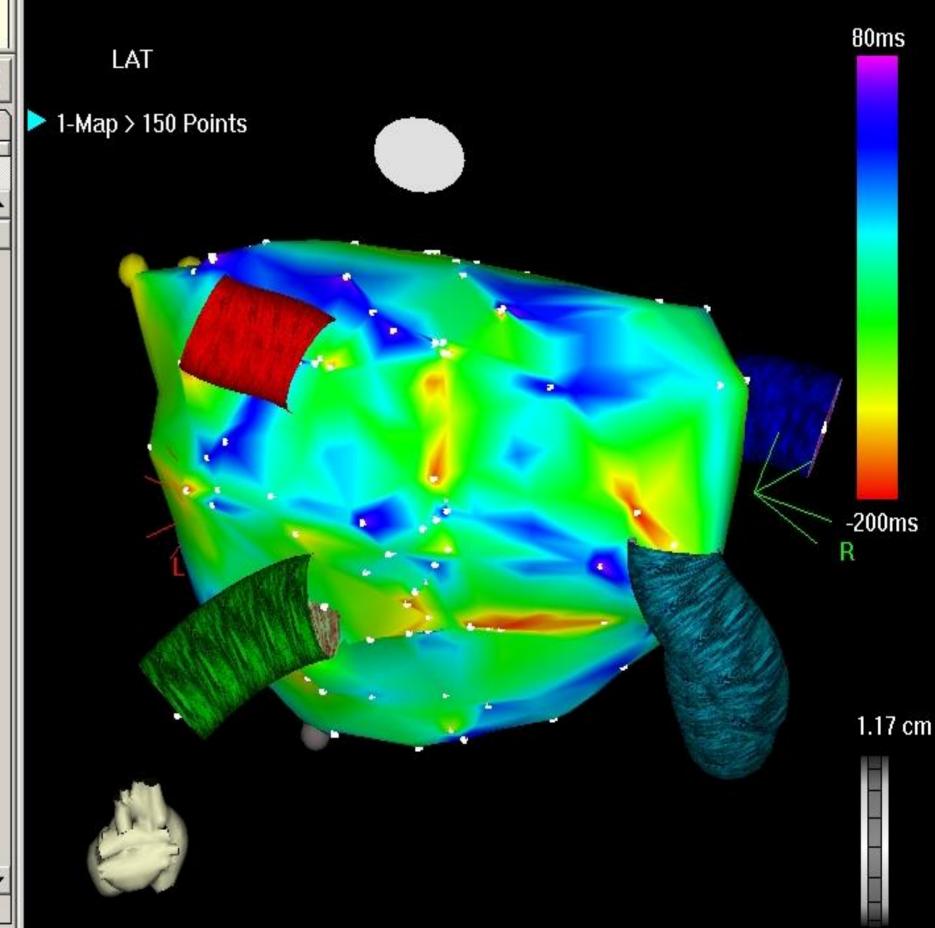
AFIB Ablation Strategy



Electroanatomic mapping

- 4-mm irregated tip quadripolar catheter
- Contact mapping of LA and PVs
- EAM and MSCT displayed next to each other





AF ablation procedure

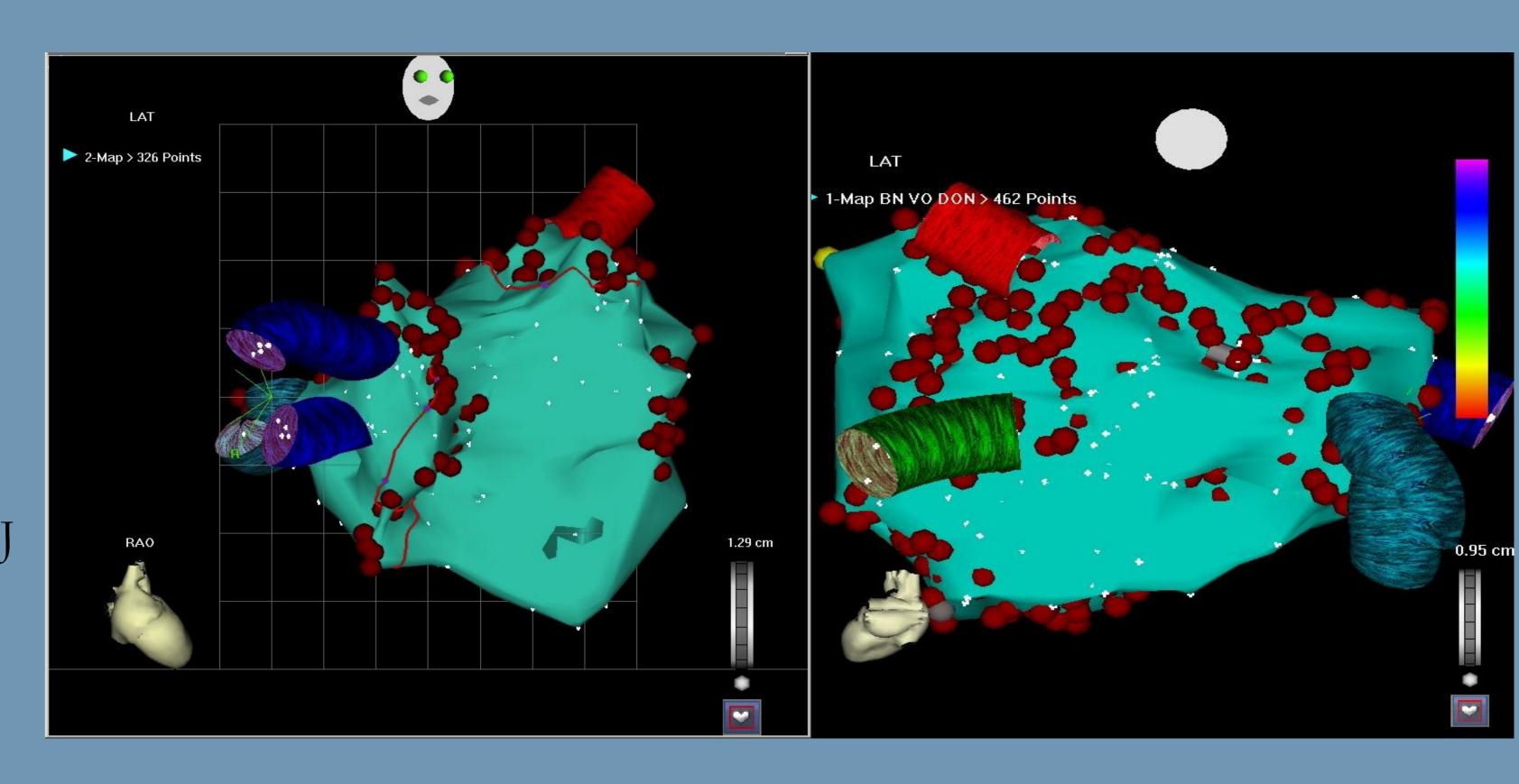
Circumferential approach

(Pappone C et al., Circulation 2000;102(21):2562-4)

PV-Isolation

(Haissaguerre M et al., N Engl J Med 1998;339:659–65)

Additional lines



Postablation Management

- VKA / NOAC for all patients for ≥2 months
- Use of VKA / NOAC >2 months following ablation based on patient's risk factors for stroke and not presence or type of AF
- Discontinuation of VKA / NOAC therapy postablation generally not recommended for CHADS2 score ≥2

Outcome

2012

Characteristic

Patients (n)

Age (y)

Sex (M/F)

Duration (y)

EHRA score

LVEF (%)

LA diameter (mm)

Hypertension (n)

Total

50

55,7 ± 13,4

39 / 11

4,5 ± 2,7

 $3,19 \pm 0,45$

65,7 ± 7,7

37,2 ± 3,7

32

Result

Procedure (min):

288,8 ± 60,4

Fluoroscopy (min):

 $64,5 \pm 20,4$

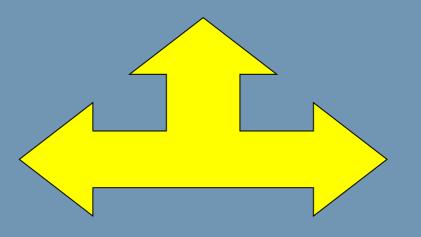
Mapping (min):

40,9 ± 12,2

Time of RF (s):

 $3,476 \pm 852$

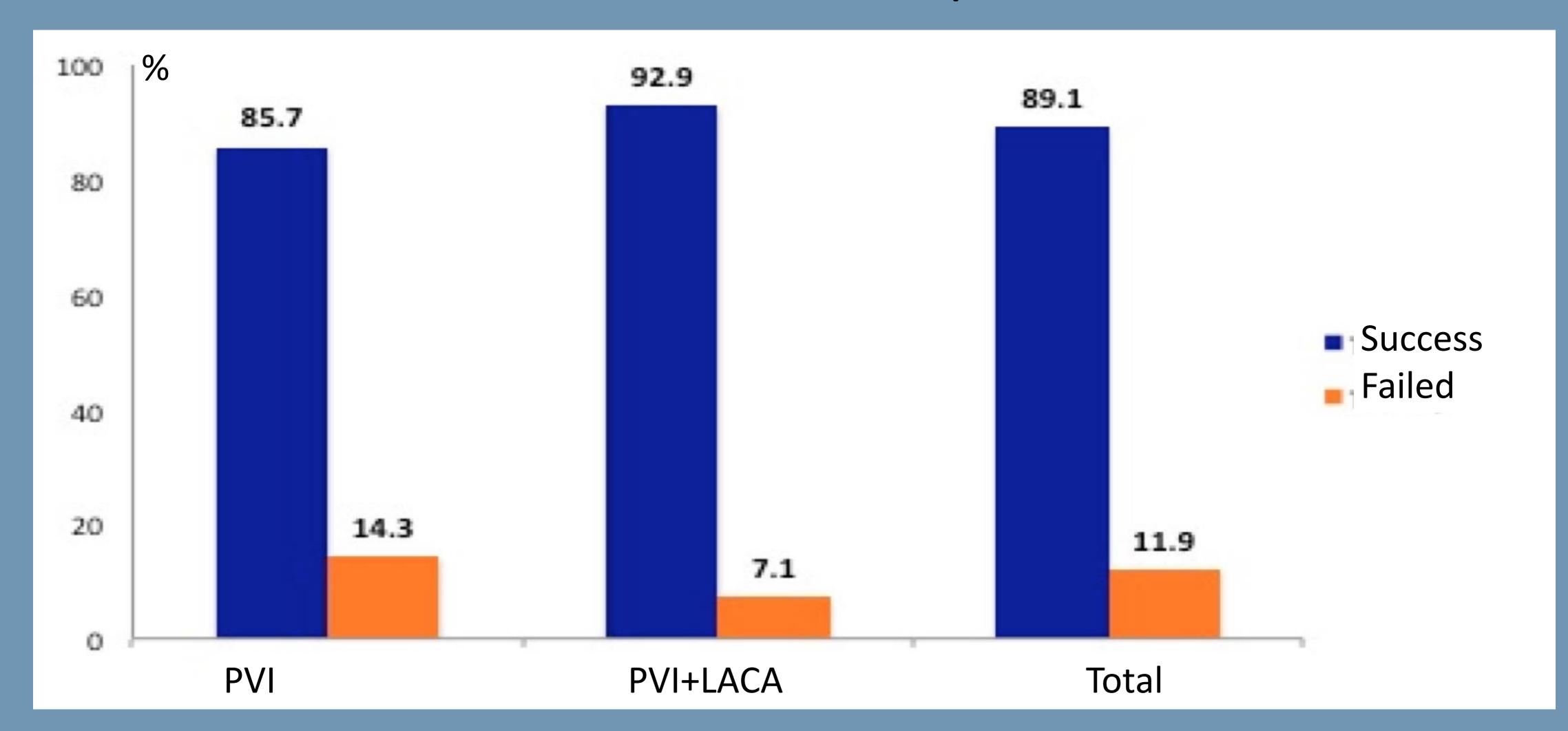
Acute complete Block VP (81,7%)



Incomplete Block VP (18,3%)

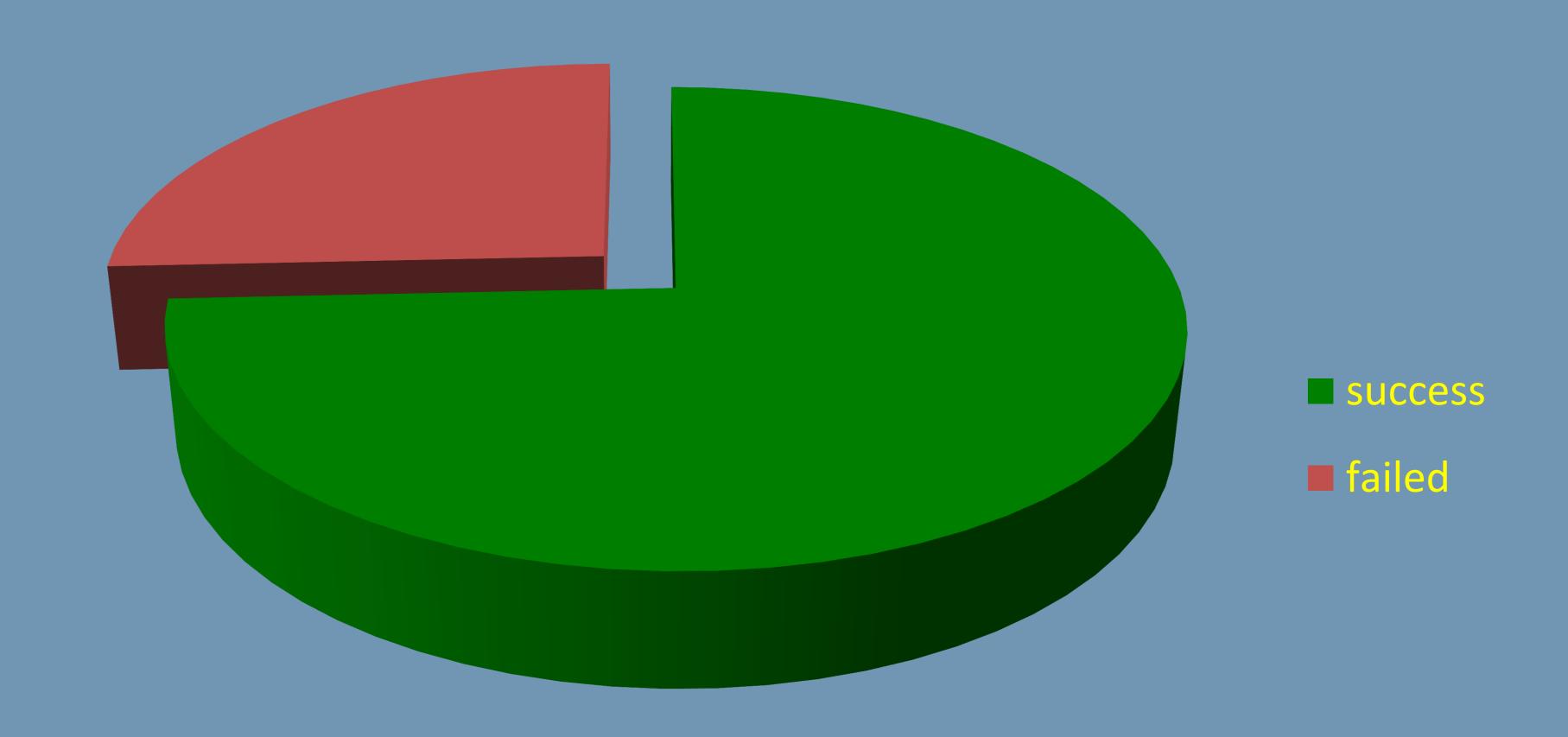
Follow-up after catheter ablation for AF

Successful after AFIB ablation procedure



Our Results – Outcome after 12 months

First 50 pts., Overall success: 74,3 %



Conclusion

- Ablation is an important option in SR maintenance
- Appropriate patient categorization is critical for management
- AF-Ablation therapy is safe in experienced hands.



Thank you!