ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ - ΙΑΤΡΙΚΗ ΣΧΟΛΗ

Θεραπευτική Κλινική

Αρρυθμίες

Χατζίδου Σοφία – Επιμελήτρια Α'

Αθήνα, 31 Μαρτίου, 2018

Εμφυτεύσιμες Συσκευές

The European Lead Extraction ConTRolled (ELECTRa) study: a European Heart Rhythm Association (EHRA) Registry of Transvenous Lead Extraction Outcomes

ELECTRa

European Lead Extraction ConTrolled Registry

73 centers in 19 European countries

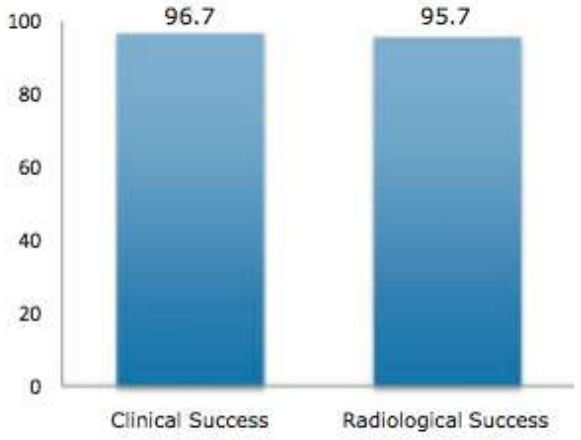
3510 patients with 6493 leads

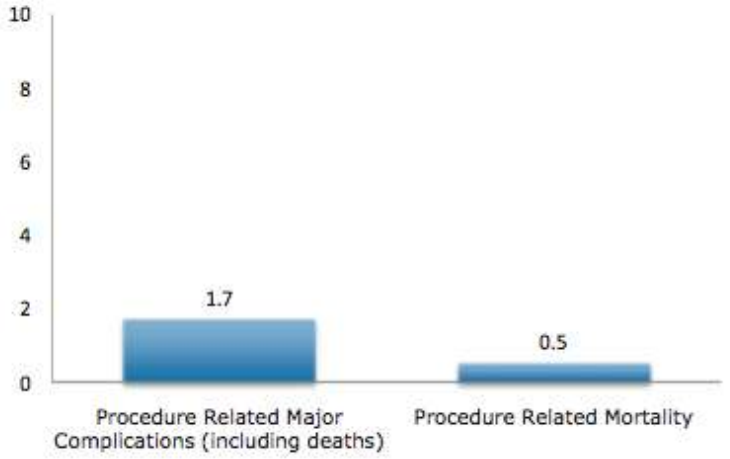
75.7% pacing leads & 24.3% ICD leads

Transvenous Lead Extractions Indications

52.8% infective & 47.3 % non-infective

OUTCOMES





Bongiorni MG, et al. Eur Heart J 2017

Assessing the Risks Associated with MRI in Patients with a Pacemaker or Defibrillator (The MagnaSafe Registry)

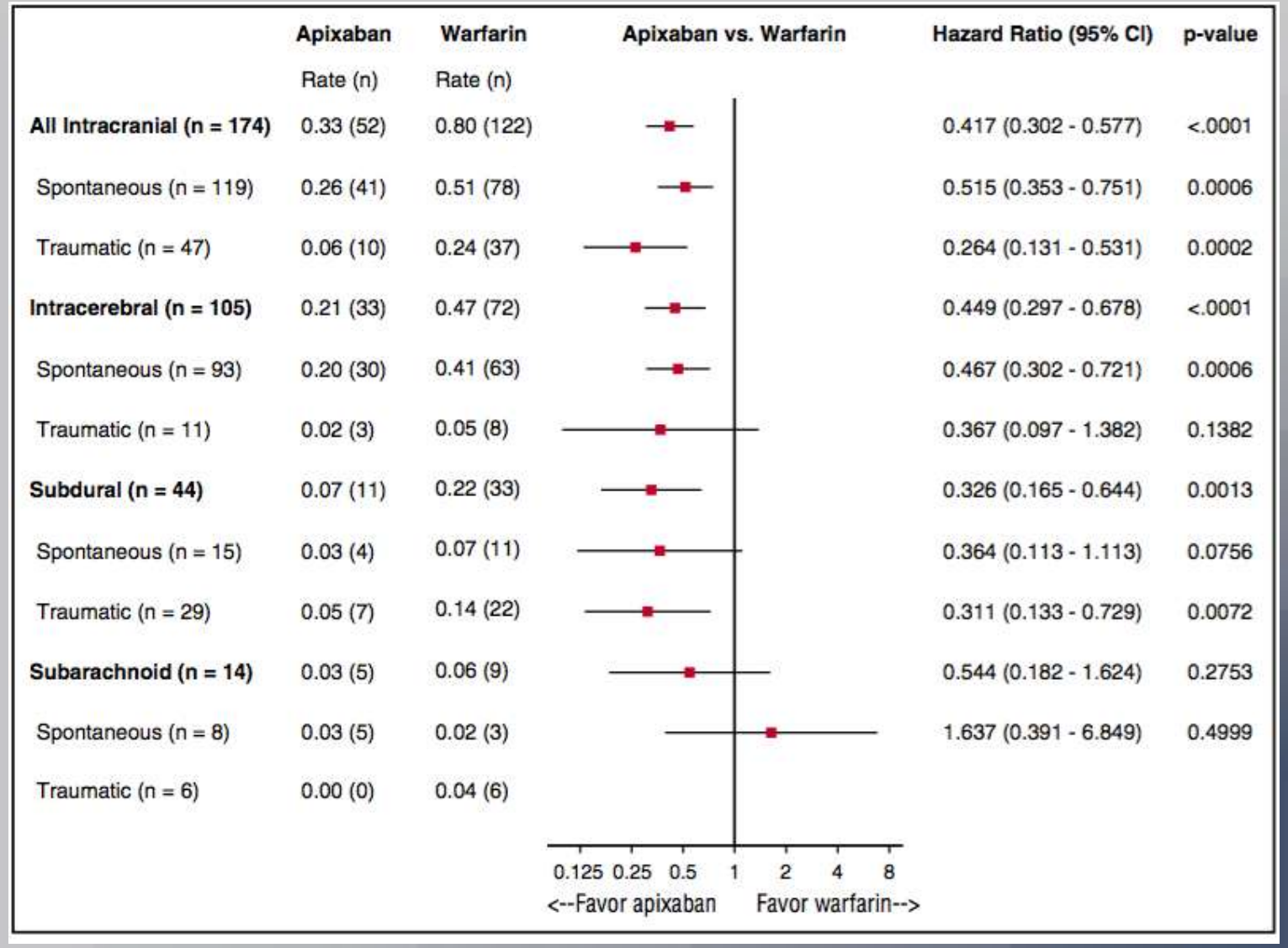
Table 2. Primary End Points.

End-Point Event	Pacemaker		ICD	
	Events/Cases	% (95% CI)	Events/Cases	% (95% CI)
Death during the MRI examination	0/1000	0 (0–0.4)	0/500	0 (0–0.8)
Generator failure requiring immediate replacement	0/1000	0 (0–0.4)	1/500*	0.2 (0.04–1.1)
Lead failure requiring immediate replacement†	0/1926	0 (0–0.2)	0/997	0 (0–0.4)
Loss of capture during the MRI examination‡	0/280	0 (0–1.4)	NA	NA
Observed atrial arrhythmia	5/1000	0.5 (0.2–1.2)	1/500	0.2 (0.04–1.1)
Observed ventricular arrhythmia	0/1000	0 (0–0.4)	0/500	0 (0–0.8)
Electrical reset§	6/1000	0.6 (0.3–1.3)	0/500	0 (0–0.8)

Russo RJ , et al. N Engl J Med 2017

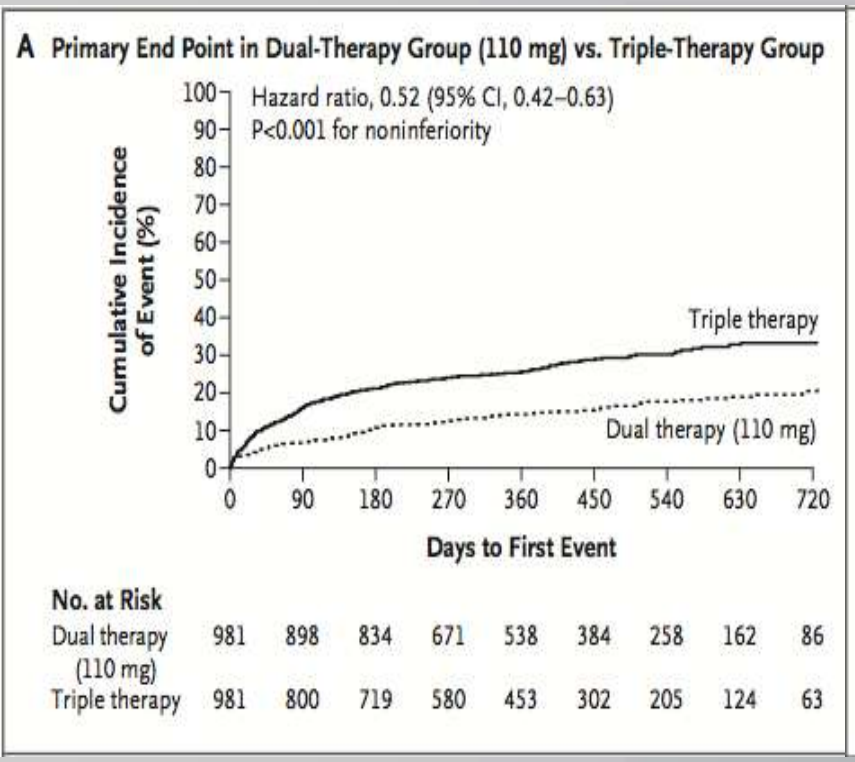
Υπερκοιλιακές Αρρυθμίες - Αντιπηκτικά

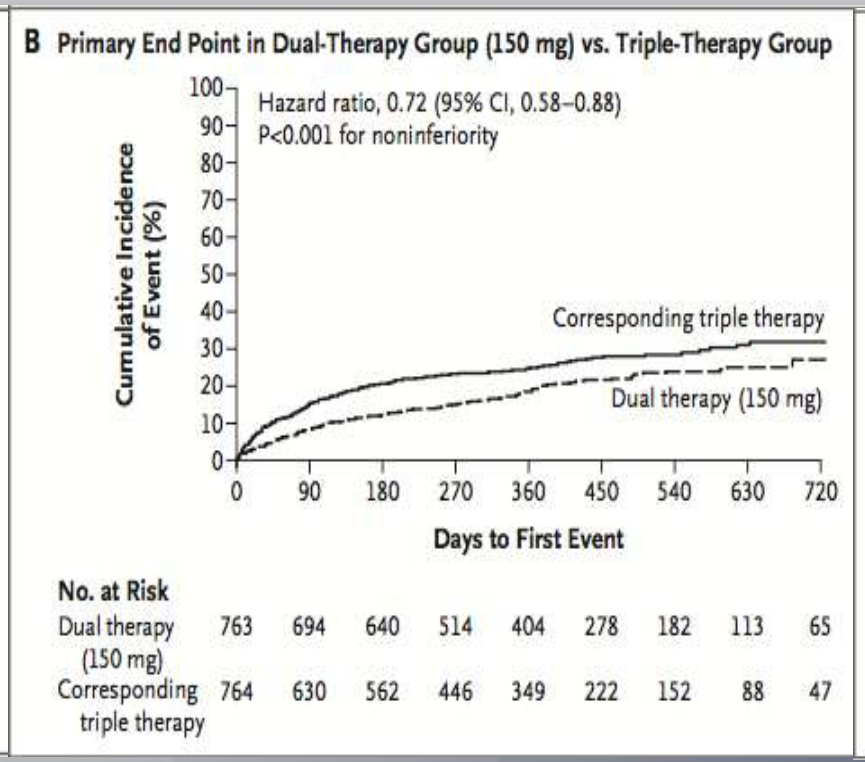
Intracranial hemorrhage in patients with atrial fibrillation receiving anticoagulation therapy (ARISTOTLE trial)

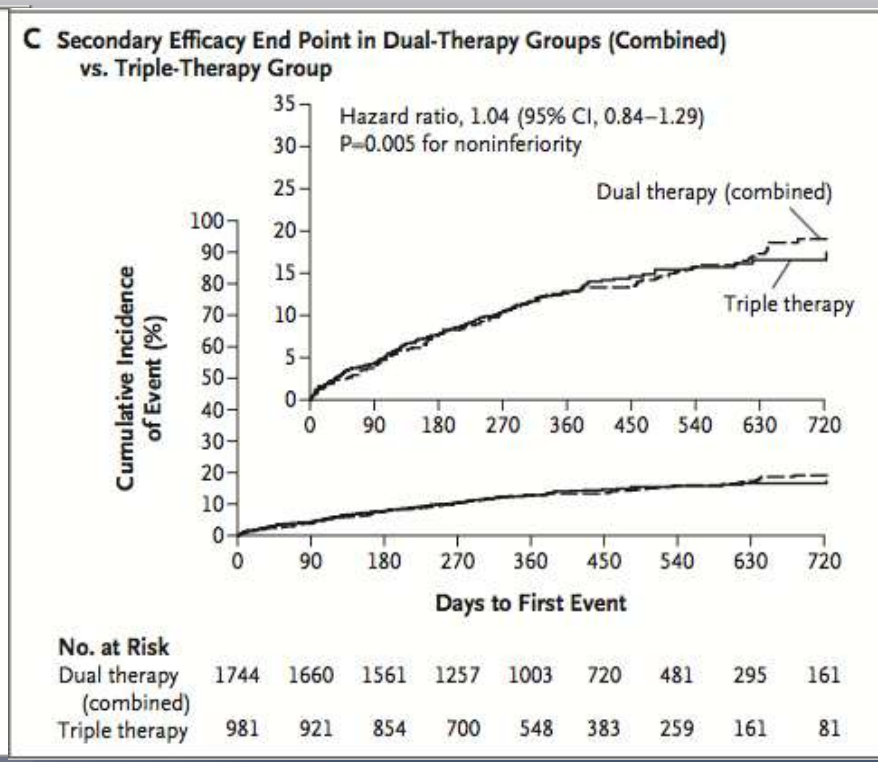


Lopes RD , et al. Blood 2017

Dual Antithrombotic Therapy with Dabigatran after PCI in Atrial Fibrillation







Cannon CP , et al. N Engl J Med 2017

Κολπική μαρμαρυγή

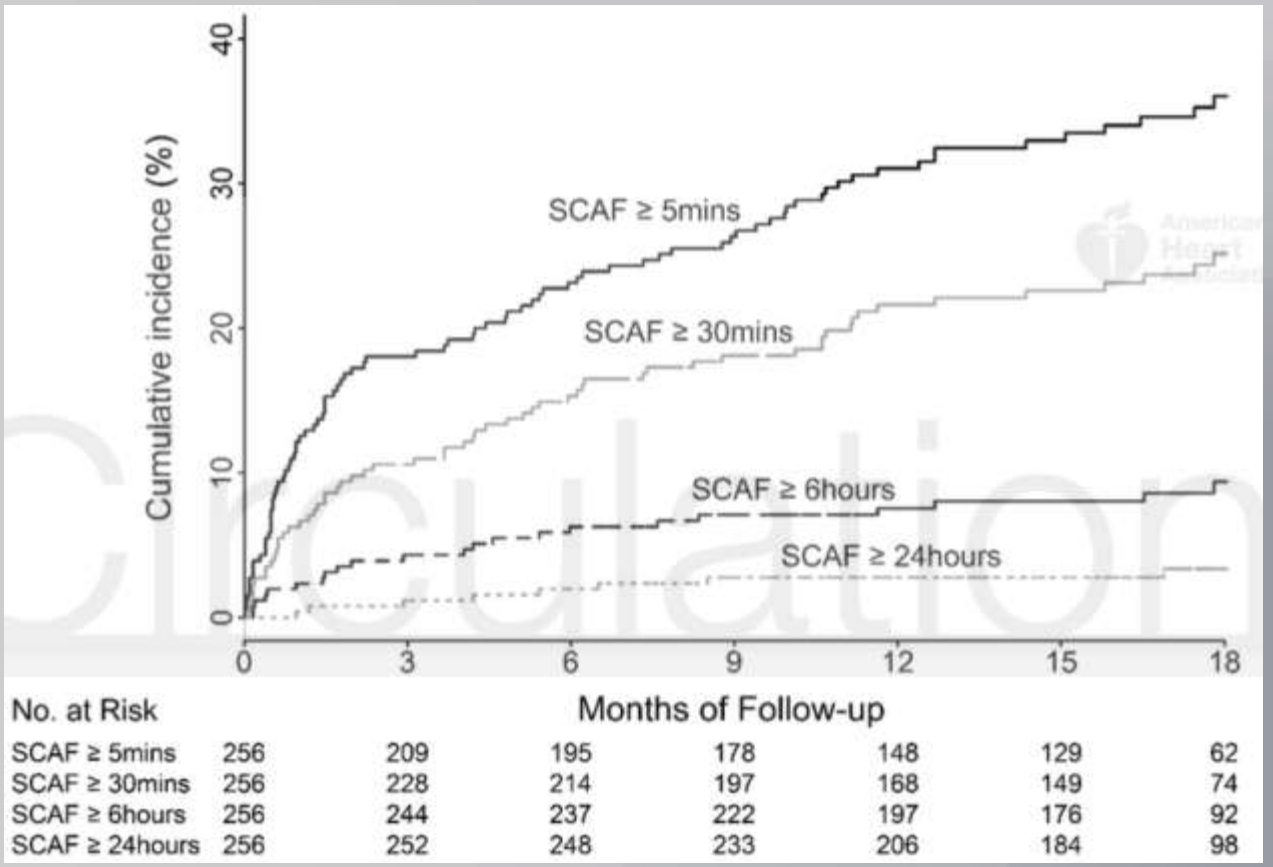
Subclinical Atrial Fibrillation in Older Patients

The study population included patients:

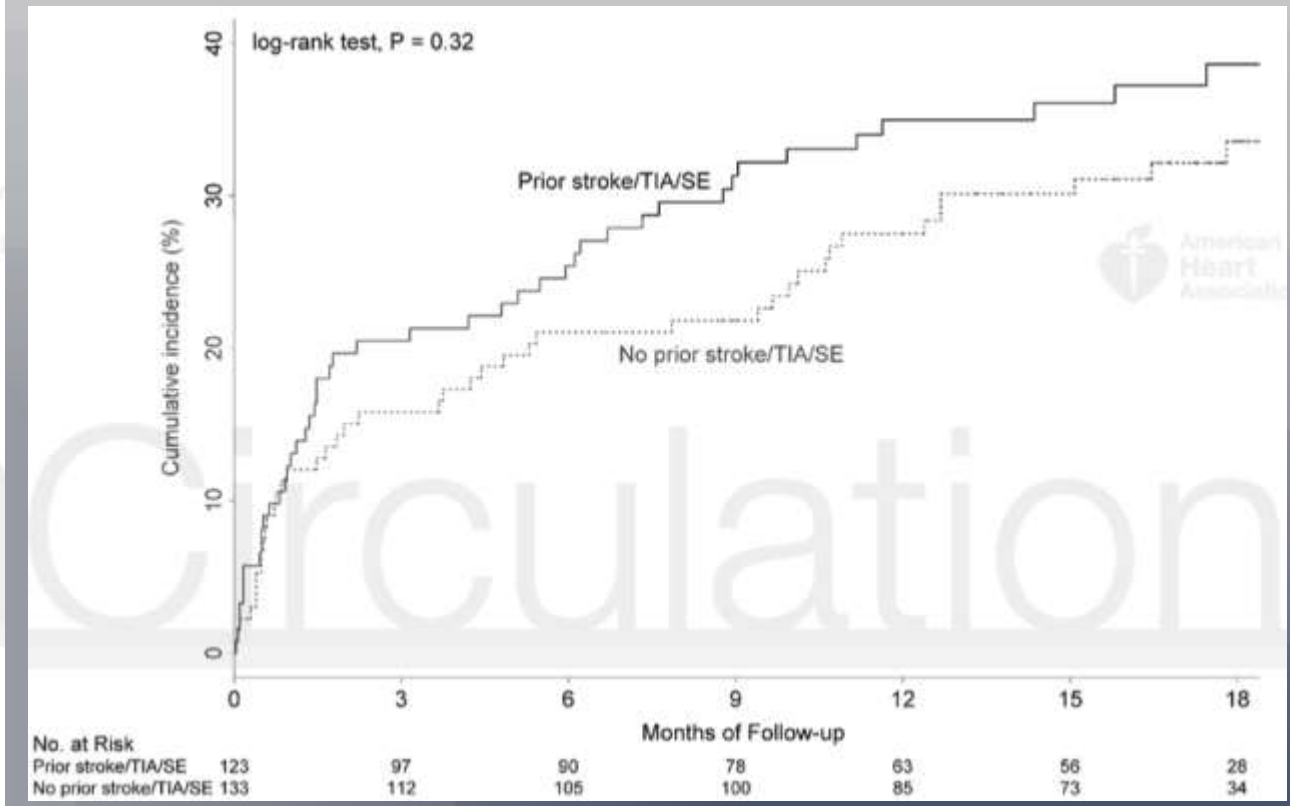
- ≥ 65 years old
- CHA2DS2-VASc score of ≥ 2, **or** a clinical diagnosis of obstructive sleep apnea, **or** a body-mass index > 30

Healey JS, et al. Circulation.2017

Subclinical Atrial Fibrillation in Older Patients (continue)



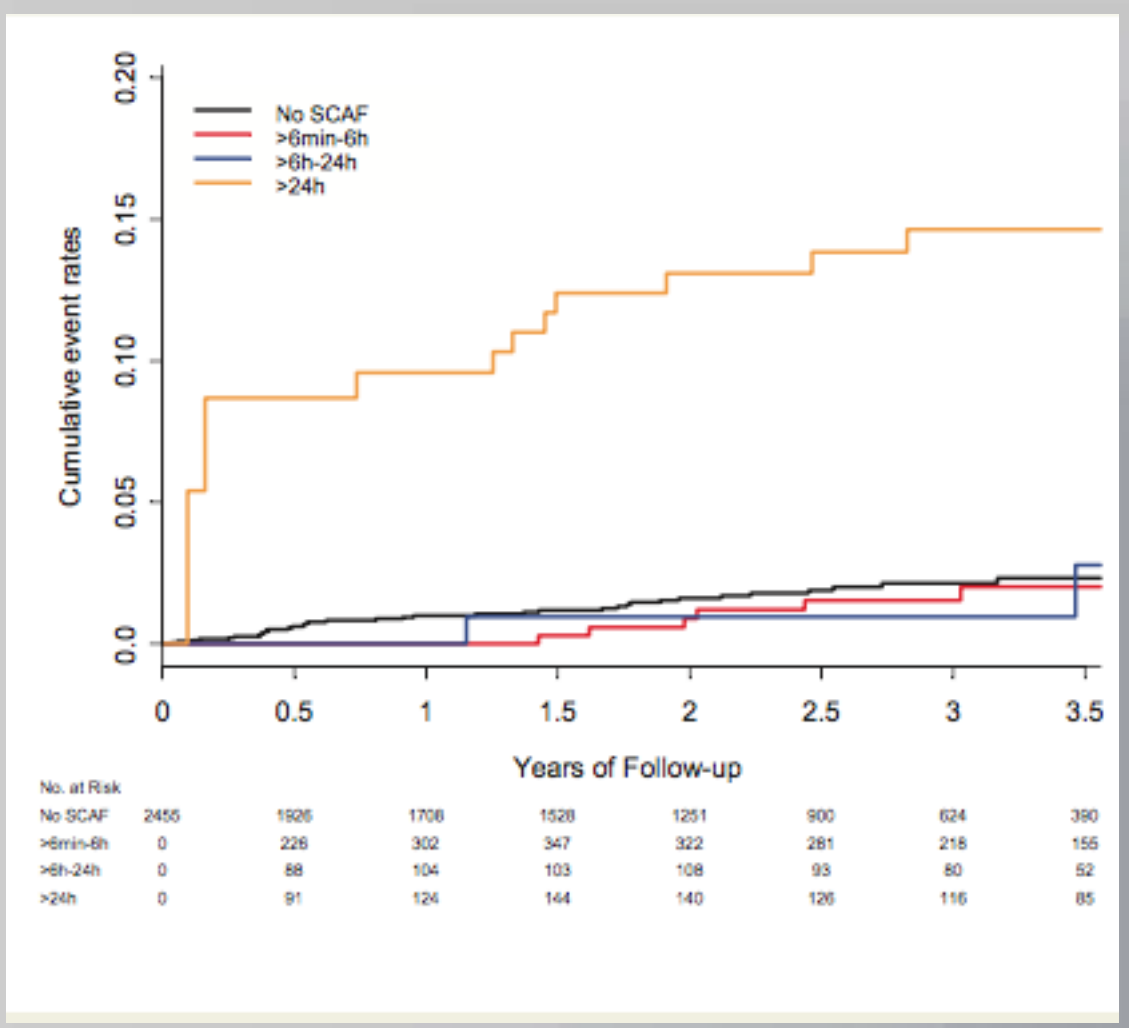
No. at Risk							
SCAF ≥ 5mins	256	209	195	178	148	129	62
SCAF ≥ 30mins	256	228	214	197	168	149	74
SCAF ≥ 6hours	256	244	237	222	197	176	92
SCAF ≥ 24hours	256	252	248	233	206	184	98

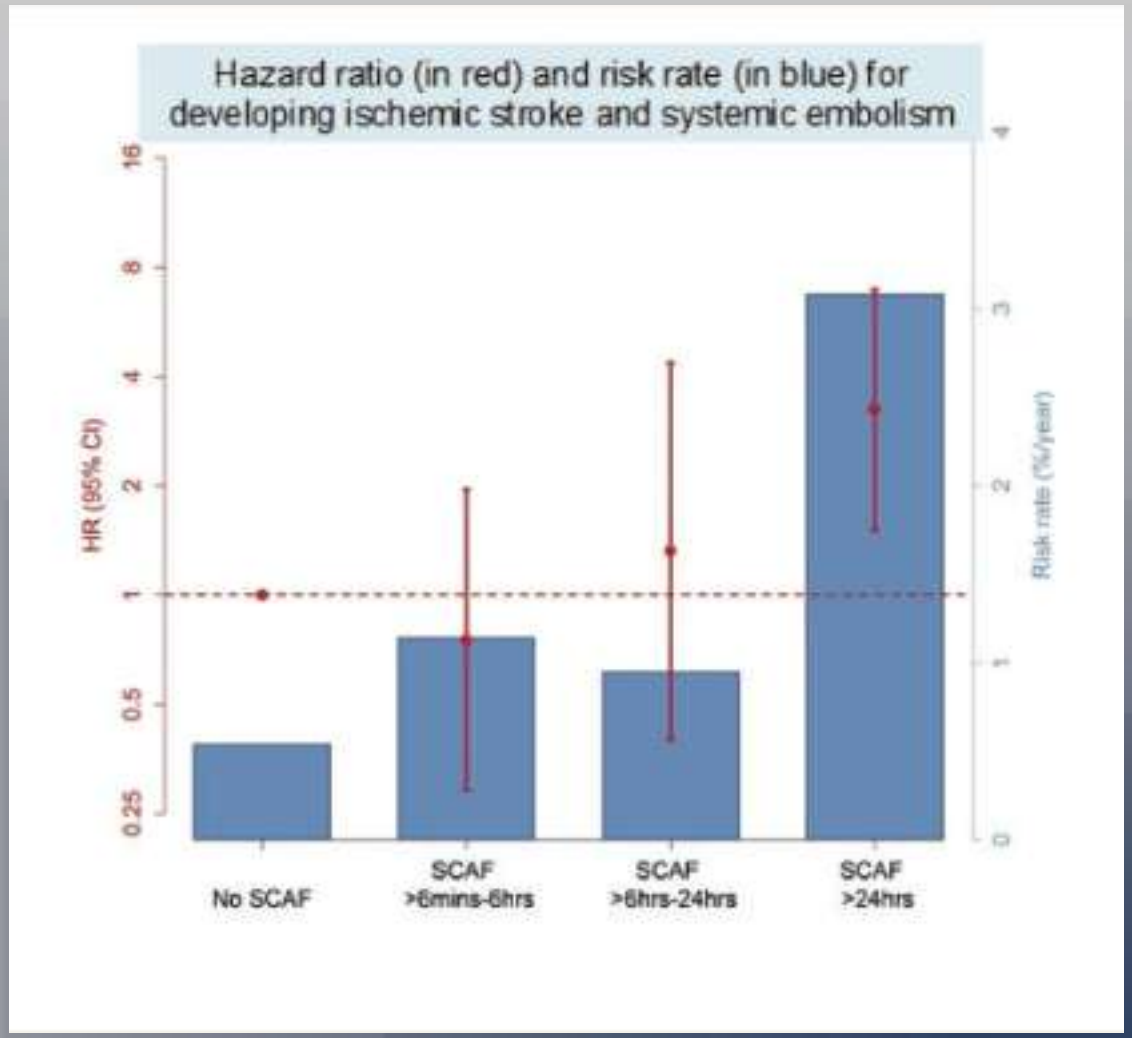


No. at Risk							
Prior stroke/TIA/SE	123	97	90	78	63	56	28
No prior stroke/TIA/SE	133	112	105	100	85	73	34

Healey JS, et al. Circulation.2017

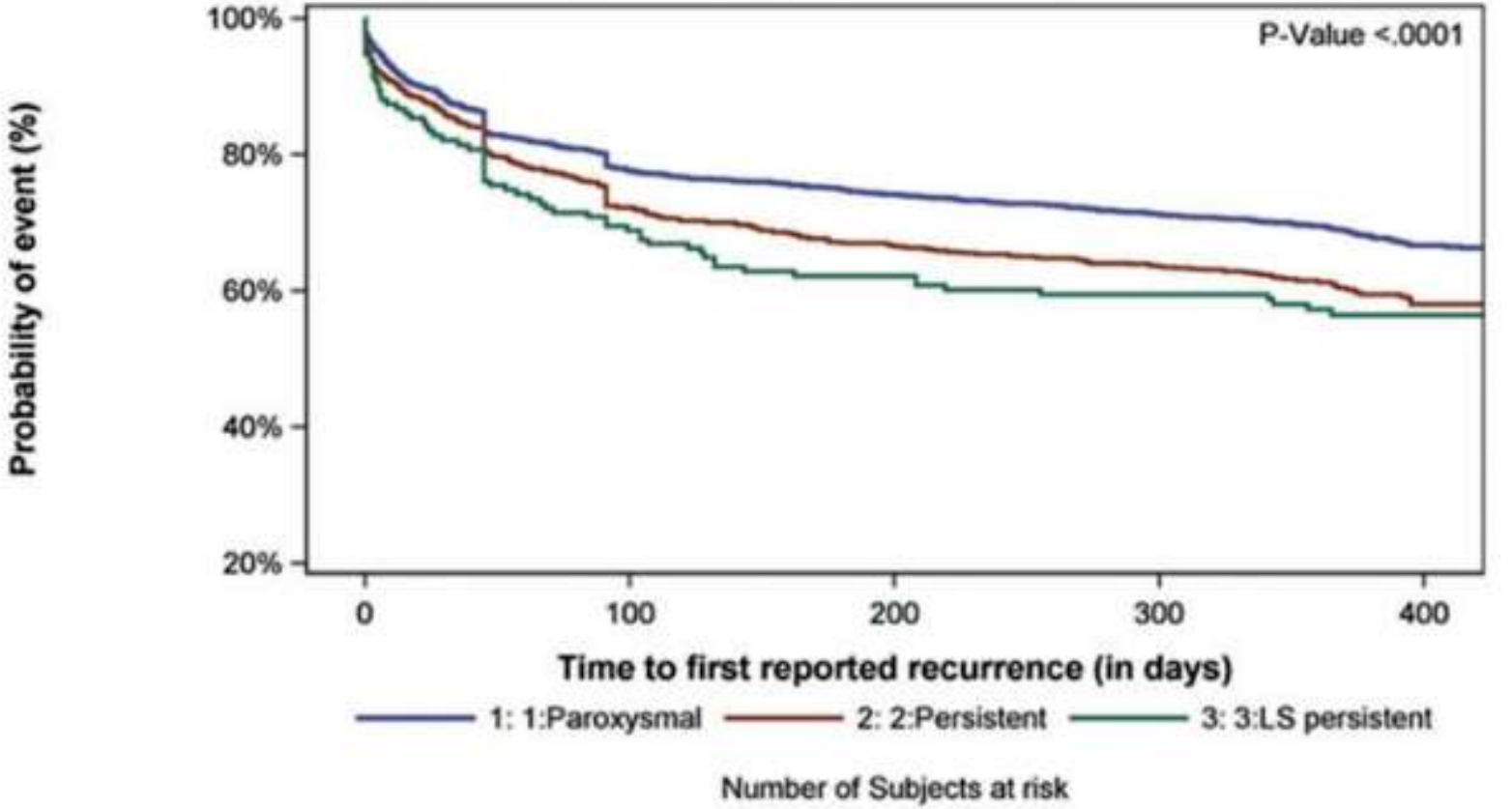
Duration of device-detected subclinical atrial fibrillation and occurrence of stroke in ASSERT





Van Gelder IC , et al. Eur Heart J 2017

Contemporary management of patients undergoing atrial fibrillation ablation: in- hospital and 1-year follow-up findings from the ESC-EHRA atrial fibrillation ablation long-term registry



Number of Subjects at risk

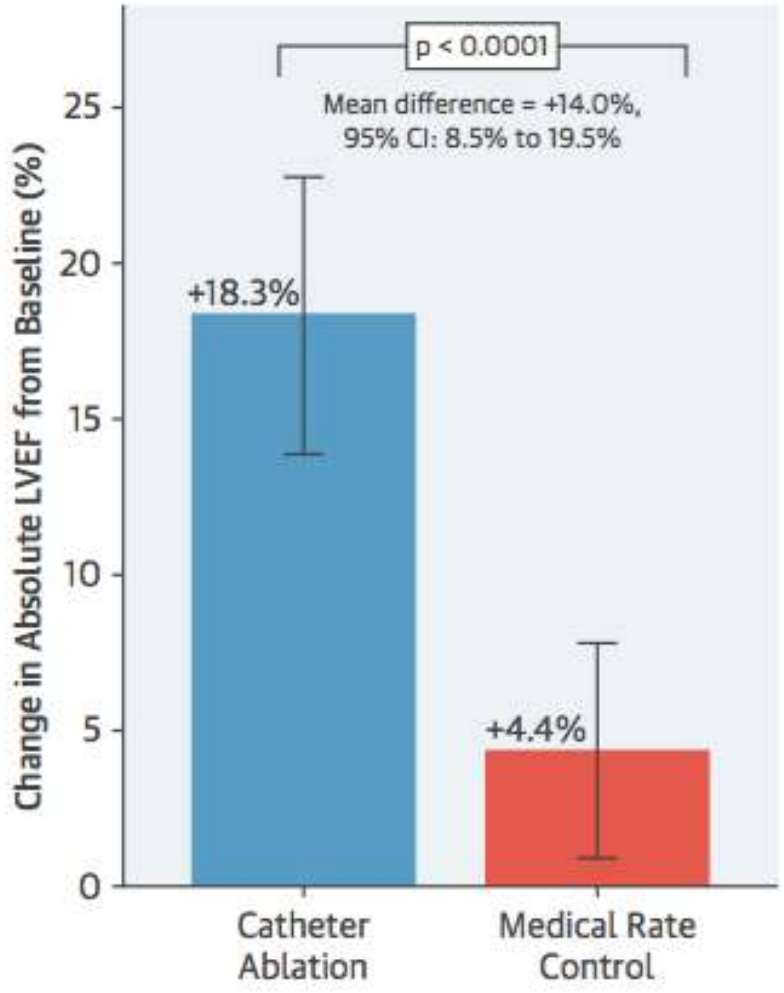
1: 1:Paroxysmal	2163	1649	1555	1451	406
2: 2:Persistent	857	614	560	516	137
3: 3:LS persistent	151	104	93	88	33

- Success rate: 73.6 %
- Complications: 7.8%

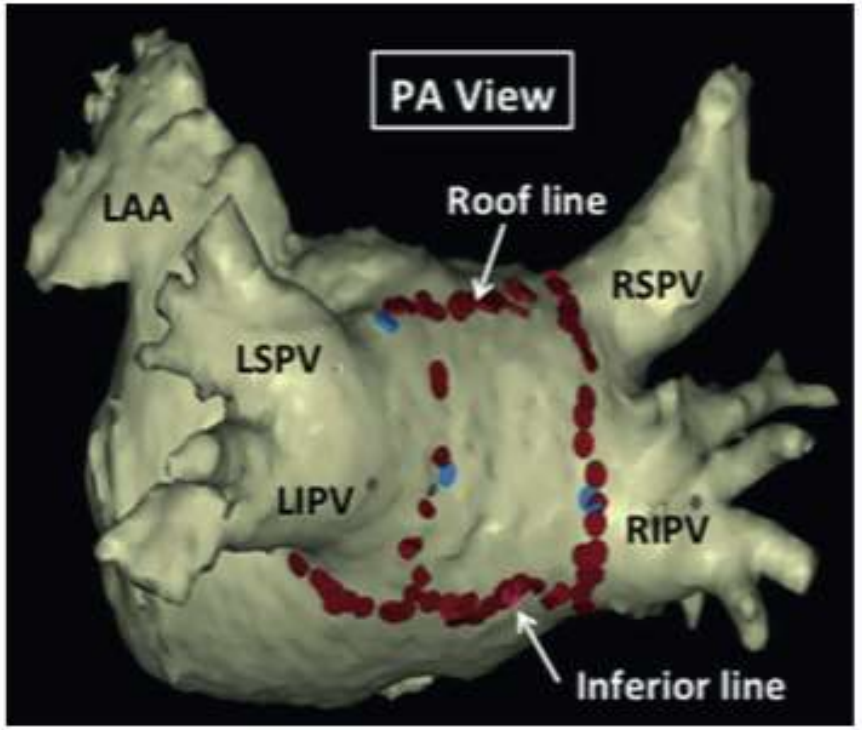
Arbelo E, et al. Eur Heart J 2017

Catheter Ablation Versus Medical Rate Control in Atrial Fibrillation and Systolic Dysfunction (The CAMERA-MRI Study)

A Primary Endpoint: Change in LVEF at Baseline and 6 Months by Treatment Arm

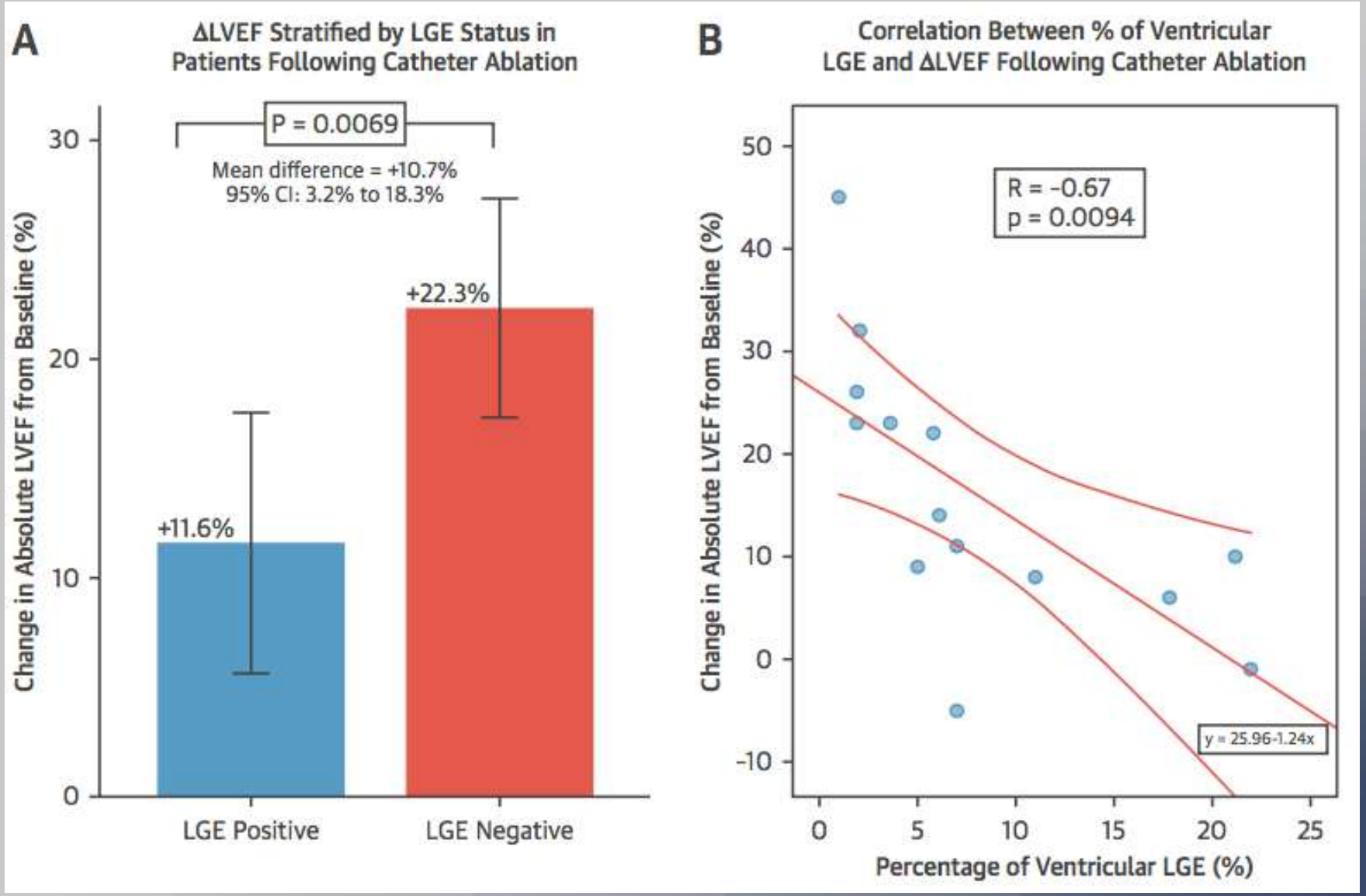


B Catheter Ablation Lesion Set in Left Atrium: Pulmonary Vein and Posterior Wall Isolation



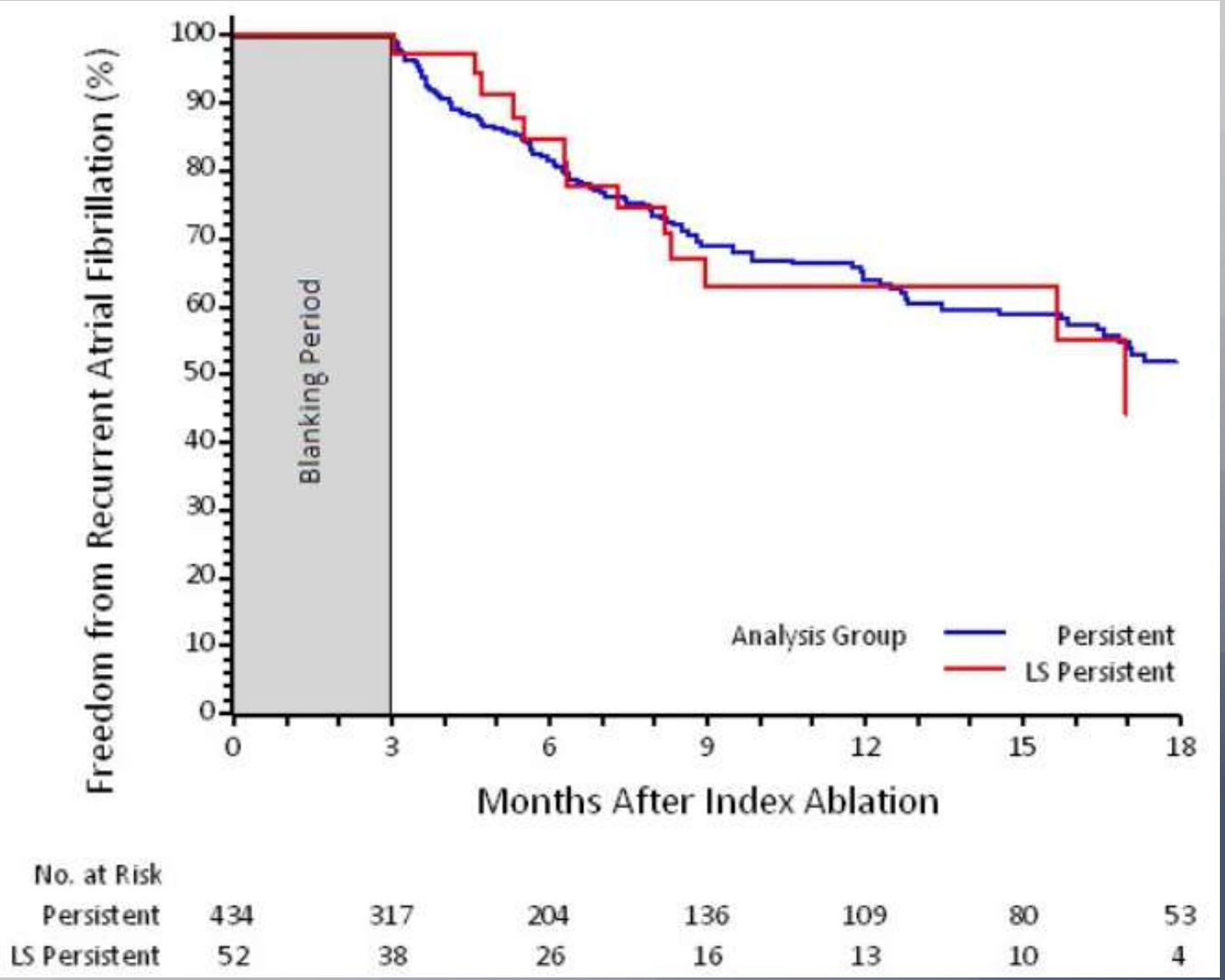
Prabhu S , et al. JACC 2017

Catheter Ablation Versus Medical Rate Control in Atrial Fibrillation and Systolic Dysfunction - The CAMERA-MRI Study (continue)



Prabhu S , et al. JACC 2017

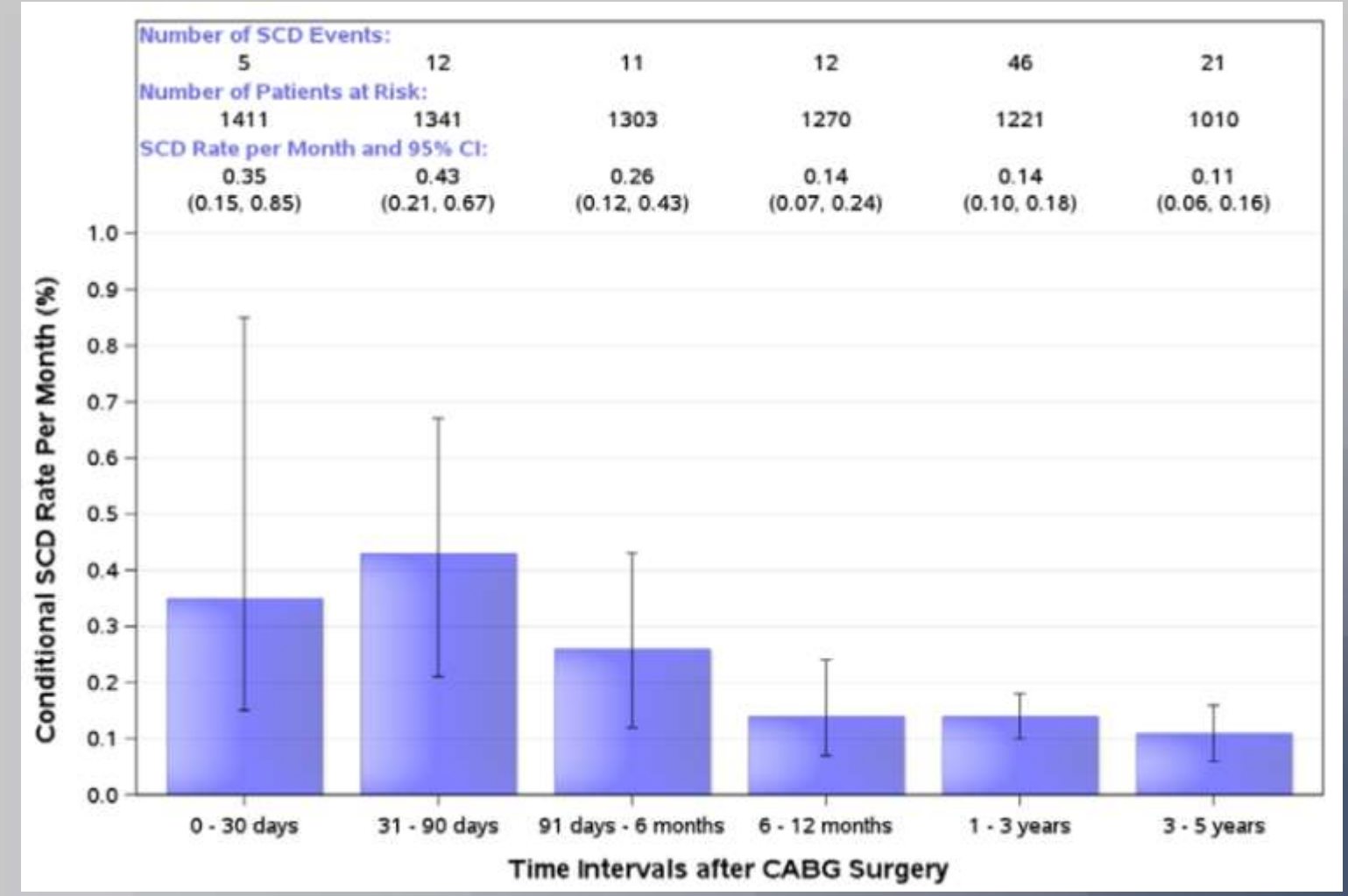
Pulmonary Vein Isolation Cryoablation for Persistent and Long-Standing Persistent Atrial Fibrillation Patients



Tondo C, et al. Heart Rhythm 2017

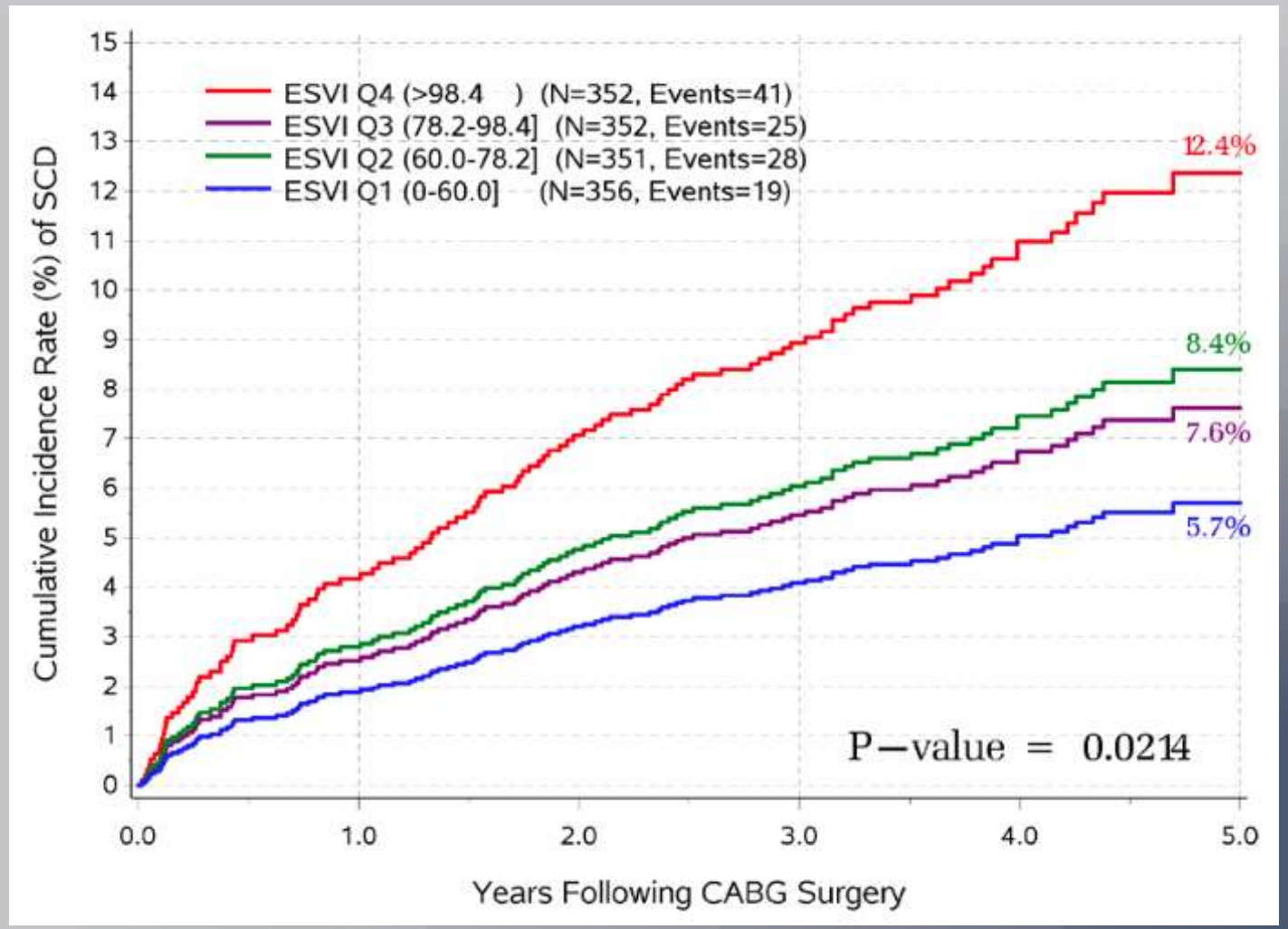
Κοιλιακές Αρρυθμίες – Αιφνίδιος Καρδιακός Θάνατος

Sudden Cardiac Death in Patients With Ischemic Heart Failure Undergoing CABG (results from STICH Randomized Clinical Trial)



Rao MP , et al. Circulation 2017

Sudden Cardiac Death in Patients With Ischemic Heart Failure Undergoing CABG - results from STICH Randomized Clinical Trial (continue)



Rao MP , et al. Circulation 2017

Right Ventricular Pacing Increases Risk of Appropriate ICD Shocks Asymmetrically

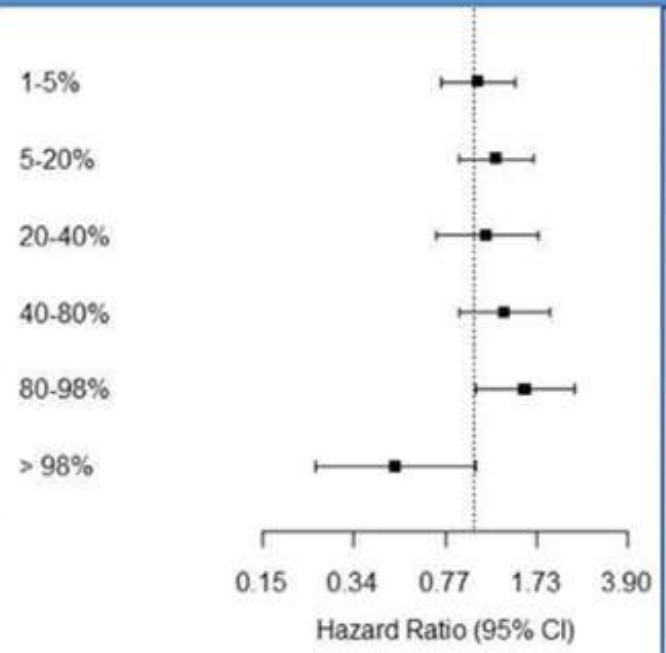
RV pacing increases risk of appropriate ICD shocks

Study population

Remotely monitored ICD population (CRT excluded)

425,625 transmissions from 8,435 patients

Stratified by %RV pacing



Outcome

first appropriate ICD shock

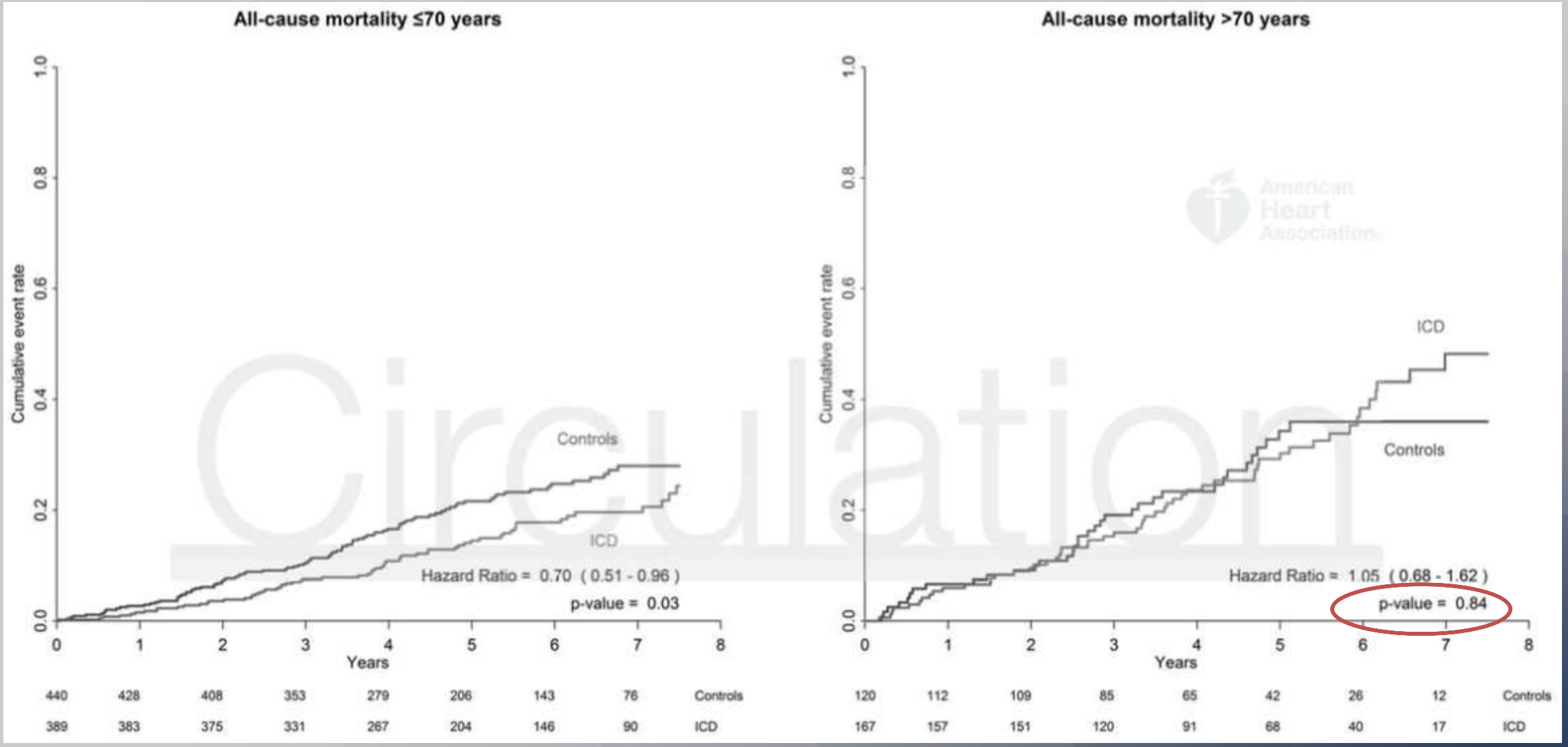
Results

RV pacing associated with increased risk of appropriate ICD shock

Complete pacing dependence associated with less risk

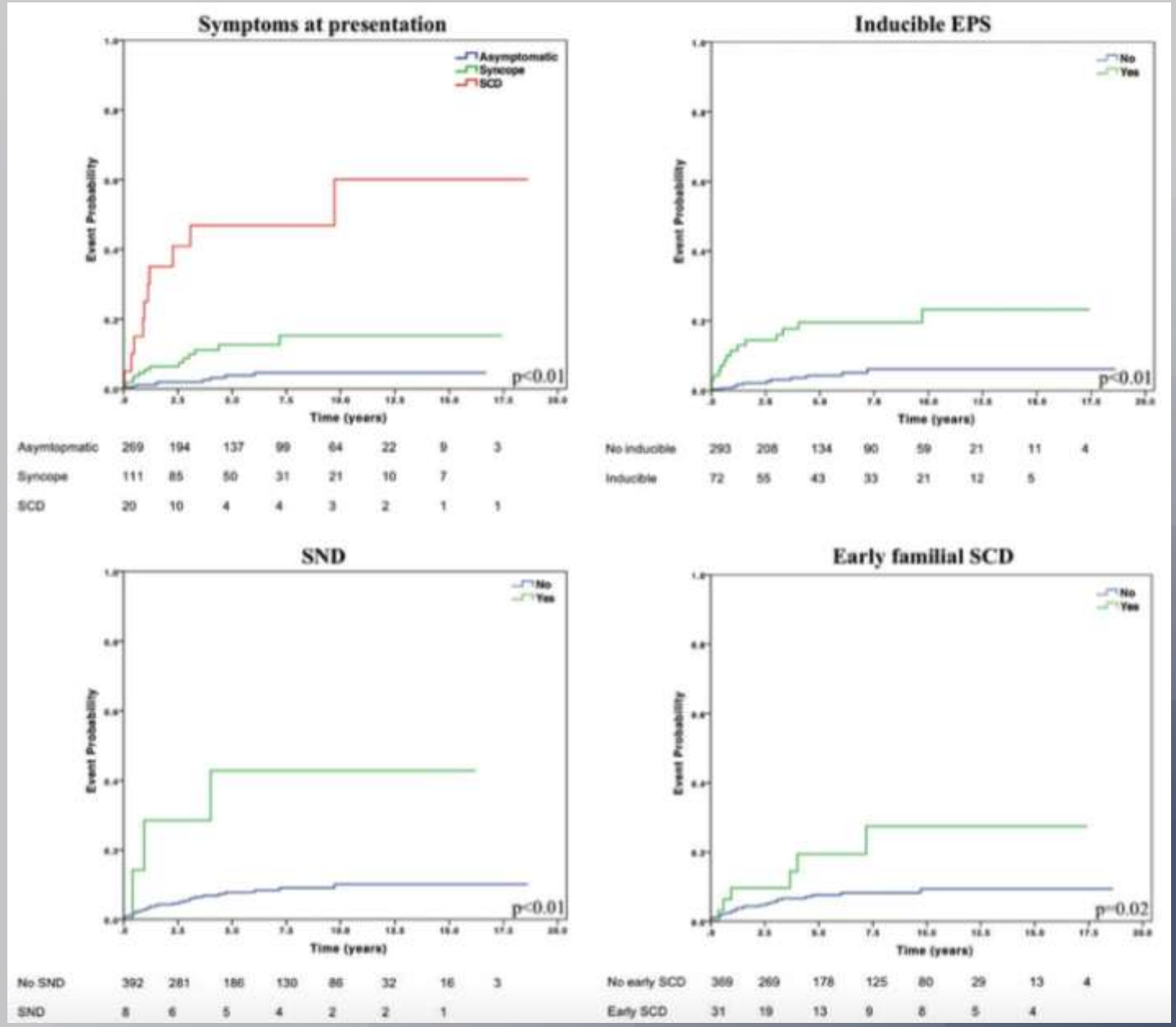
Cronin EM, et al. Circ Arrhythm Electrophysiol. 2017

Age and Outcomes of Primary Prevention ICDs in Patients with Non-Ischemic Systolic Heart Failure



Elming MB, et al. Circulation 2017

A score model to predict risk of events in patients with Brugada Syndrome



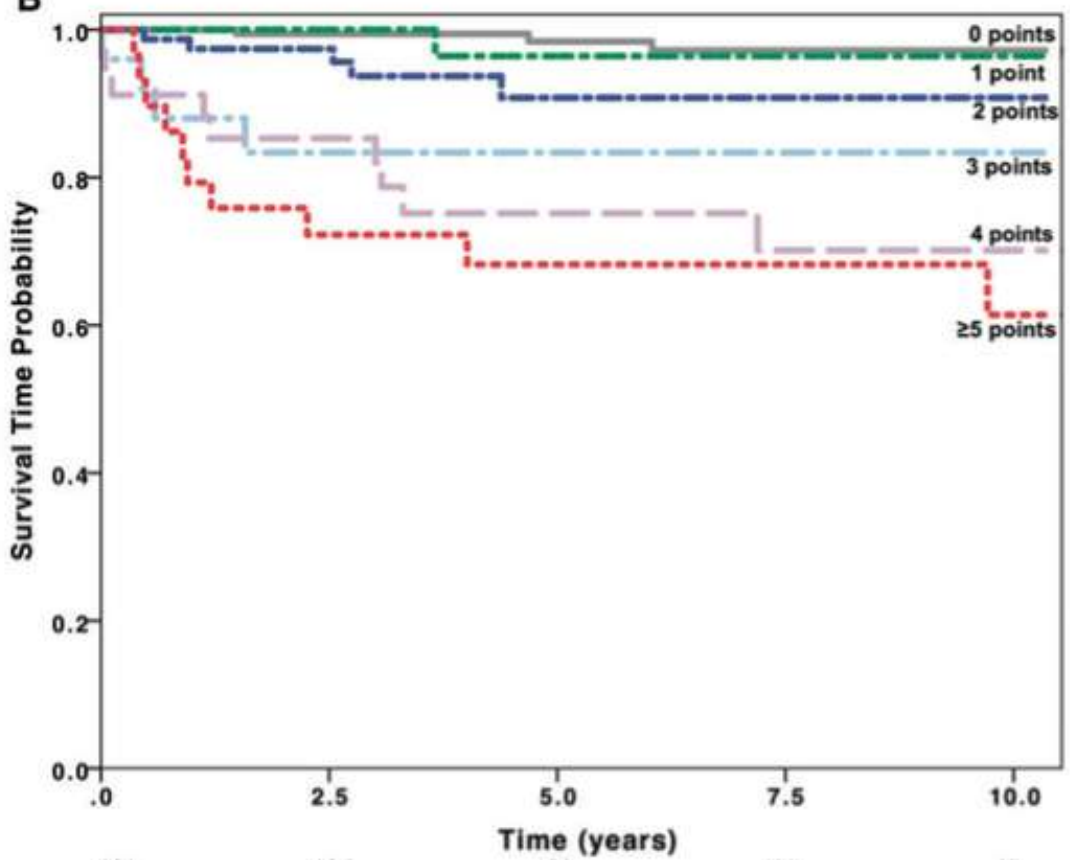
Sieira J, et al. Eur Heart J 2017

A score model to predict risk of events in patients with Brugada Syndrome (continue)

A

Risk factor	Points
Spontaneous type I	1
Early familial SCD	1
Inducible EPS	2
Syncope	2
SND	3
SCD	4

B



Patients at risk						
	0 points	191	136	91	64	43
	1 point	41	30	24	17	11
	2 points	78	55	25	13	6
	3 points	26	15	14	10	4
	4 points	35	27	18	13	12
	≥5 points	30	20	16	14	9

Sieira J, et al. Eur Heart J 2017