

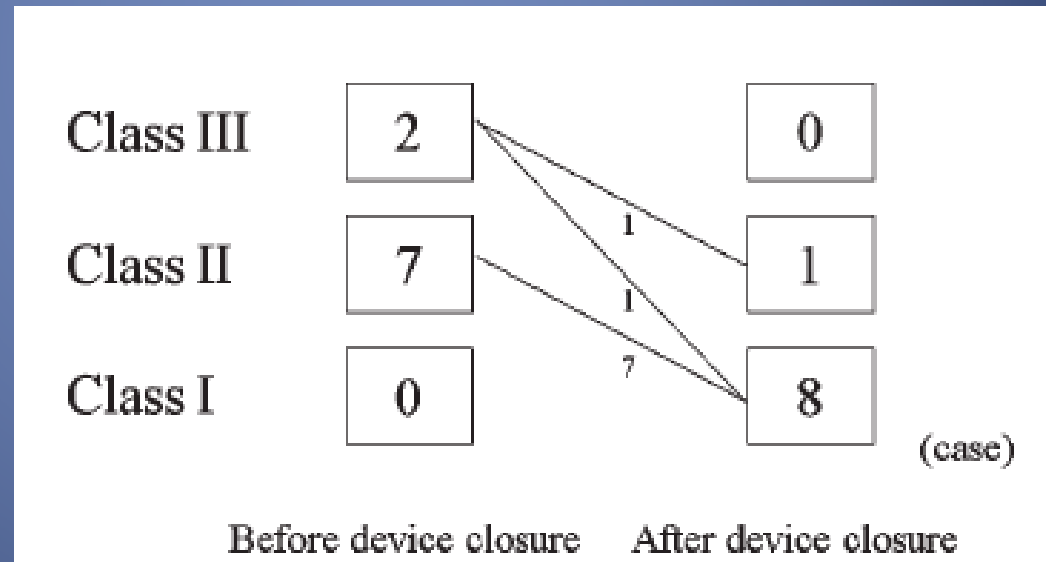
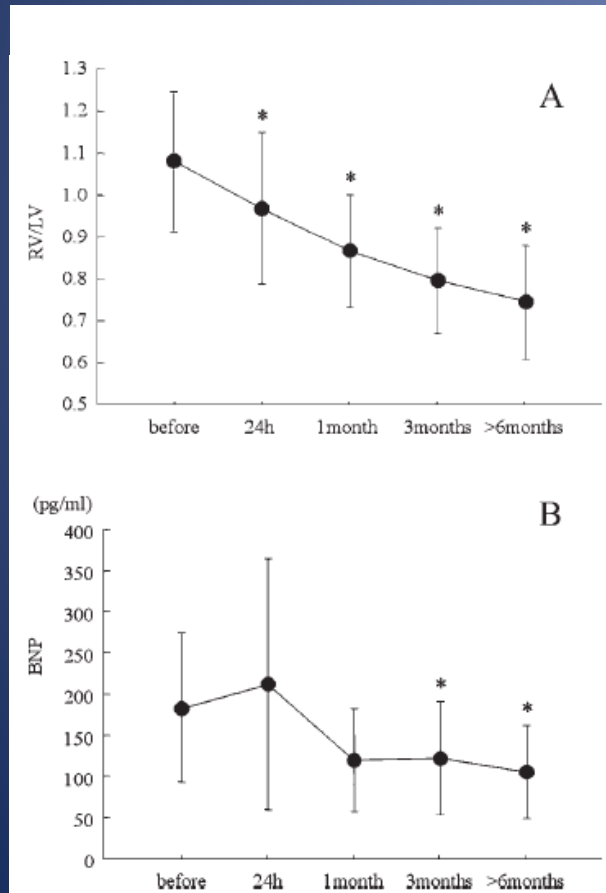
# STRATEGY FOR ELDERLY WITH ATRIAL FIBRILLATION

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# Transcatheter Closure of Atrial Septal Defect in Elderly Patients With Permanent Atrial Fibrillation

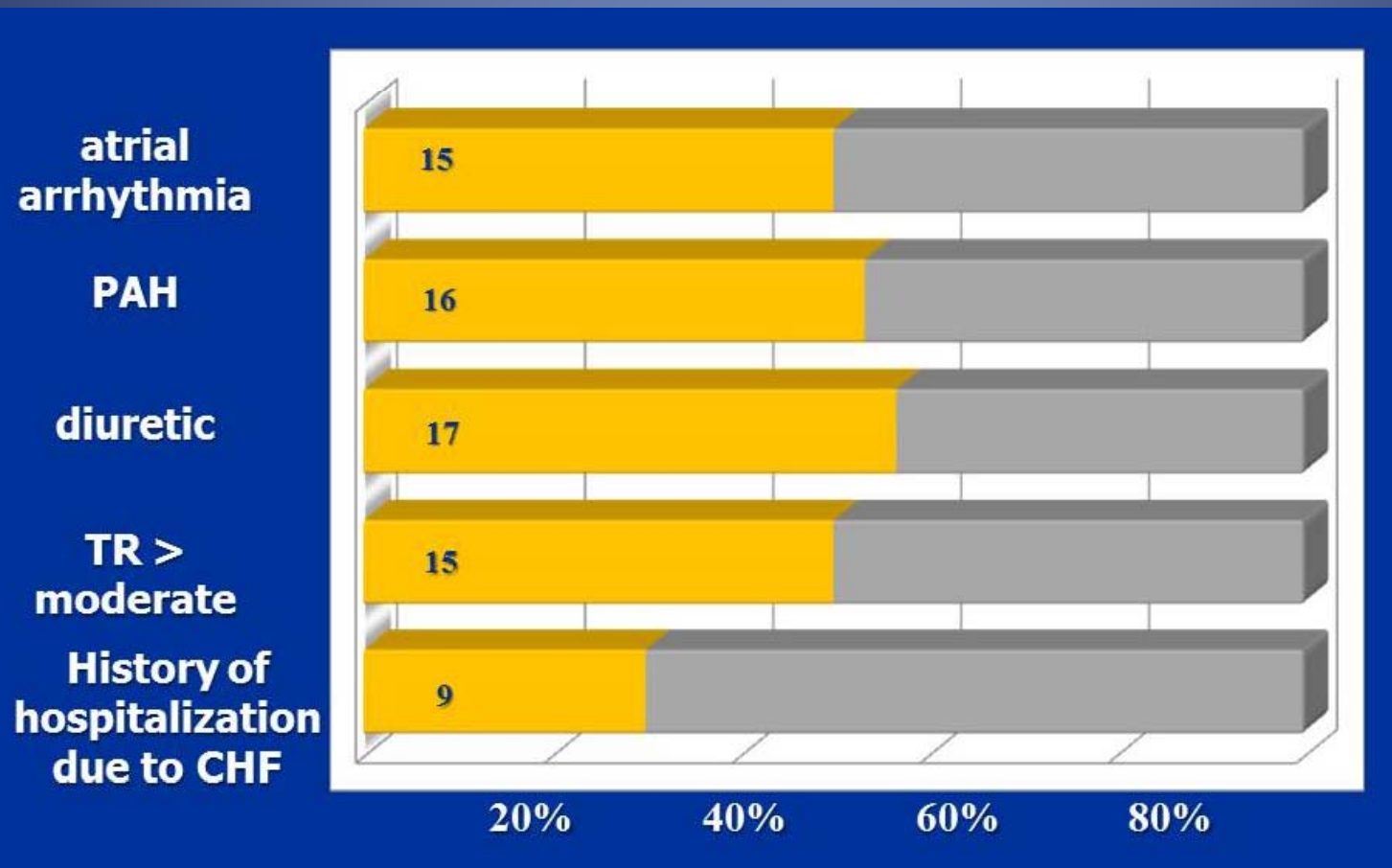
Manabu Taniguchi,<sup>1\*</sup> MD, Teiji Akagi,<sup>1</sup> MD, Shinichi Ohtsuki,<sup>2</sup> MD, Yoshio Okamoto,<sup>2</sup> MD, Yasuharu Tanabe,<sup>3</sup> RDCS, Nobuhisa Watanabe,<sup>3</sup> RDCS, Koji Nakagawa,<sup>4</sup> MD, Norihisa Toh,<sup>4</sup> MD, Kengo Kusano,<sup>4</sup> MD, and Shunji Sano,<sup>1</sup> MD



(*Catheter Cardiovasc Interv* 2009; 73: 682–686.)

# Transcatheter Closure of Atrial Septal Defect in a Geriatric Population

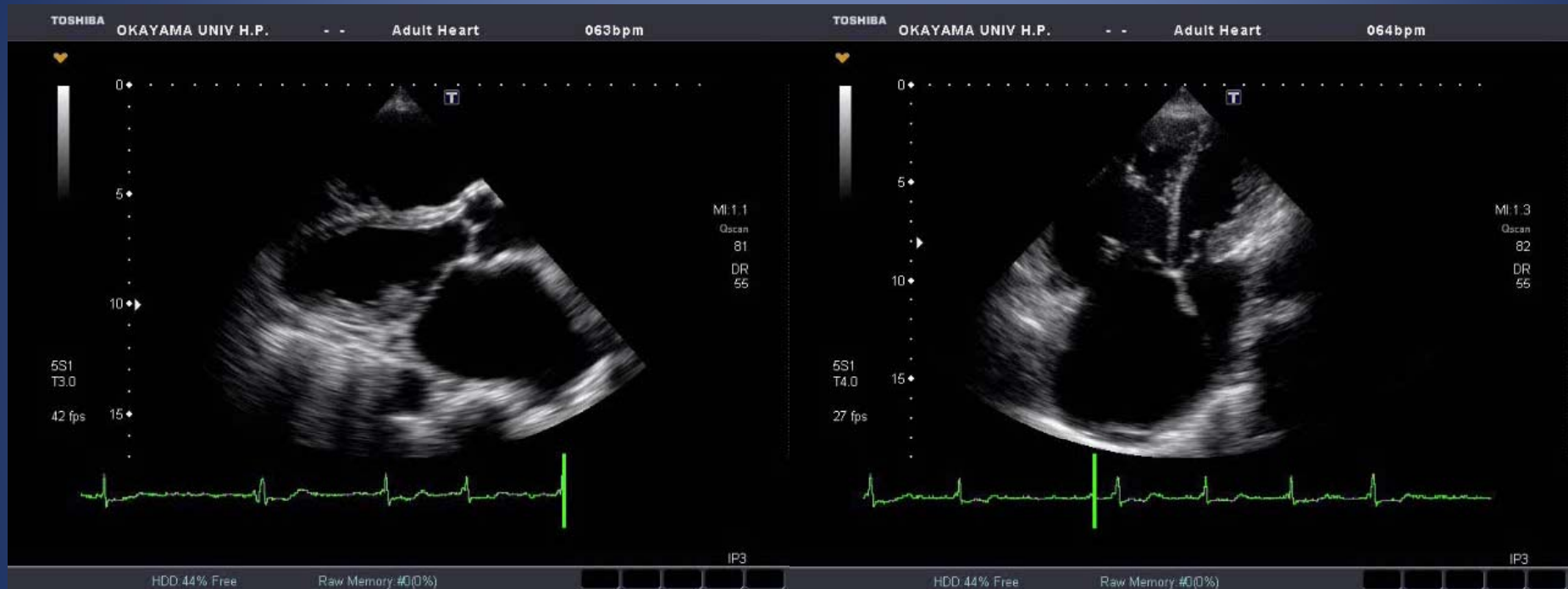
Koji Nakagawa,<sup>1</sup> MD, Teiji Akagi,<sup>2\*</sup> MD, PhD, FSCAI, Manabu Taniguchi,<sup>2</sup> MD, PhD,  
Yasufumi Kijima,<sup>1</sup> MD, Keiji Goto,<sup>3</sup> MD, PhD, Kengo F. Kusano,<sup>1</sup> MD, PhD,  
Hiroshi Itoh,<sup>1</sup> MD, PhD, and Shunji Sano,<sup>4</sup> MD, PhD



# 82 years female

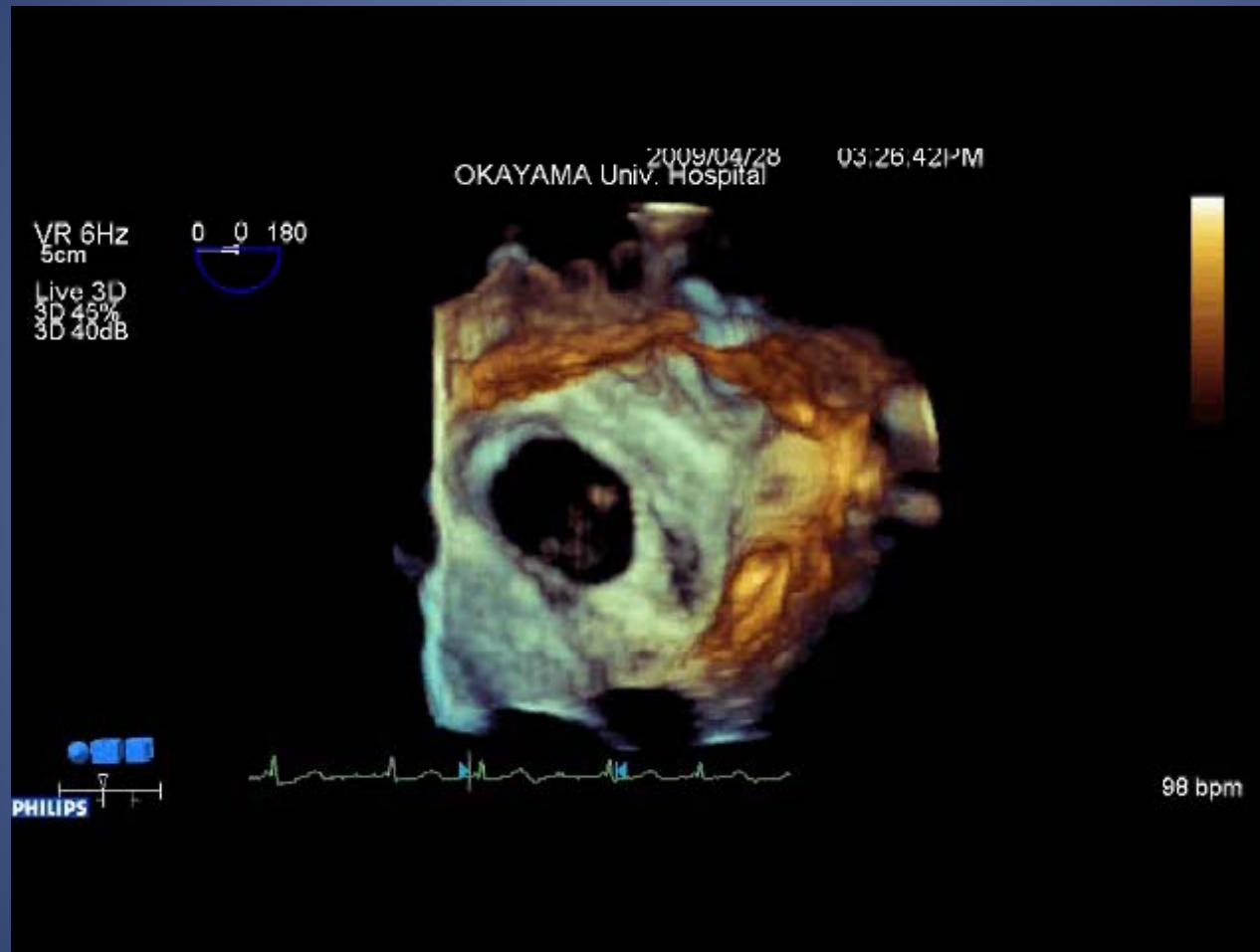
## PLAX

## A4CV

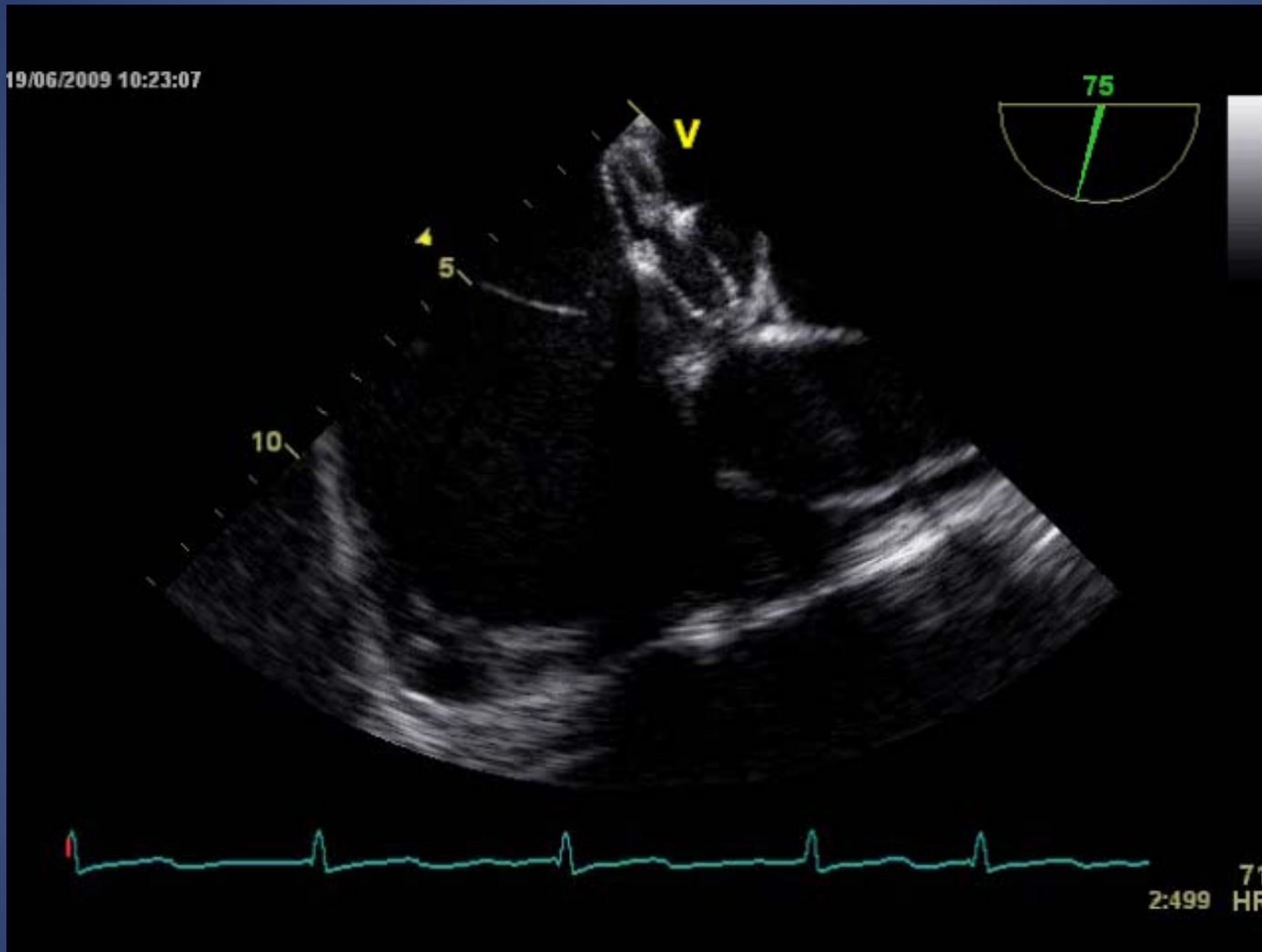


LA 62mm, LVDd/Ds 38/18mm, IVSd/PWtd 7/8mm  
RVDd (Mmode) 50mm, RV/LV 1.3  
Maximal ASD size 30mm, Qp/Qs 3.9, L-R shunt flow

# 3DTEE findings

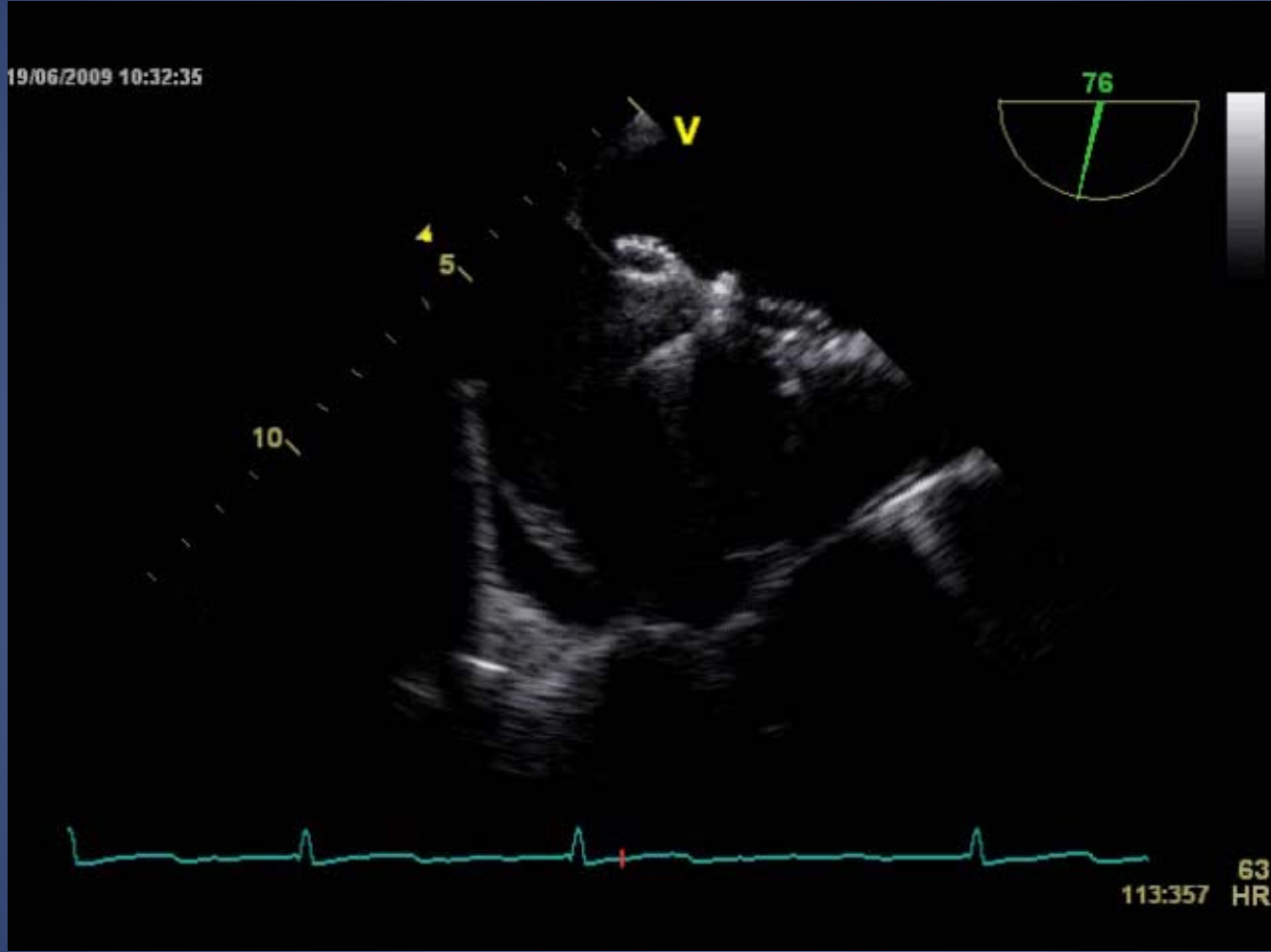


(maximum ASD diameter 31mm, aortic rim deficiency)

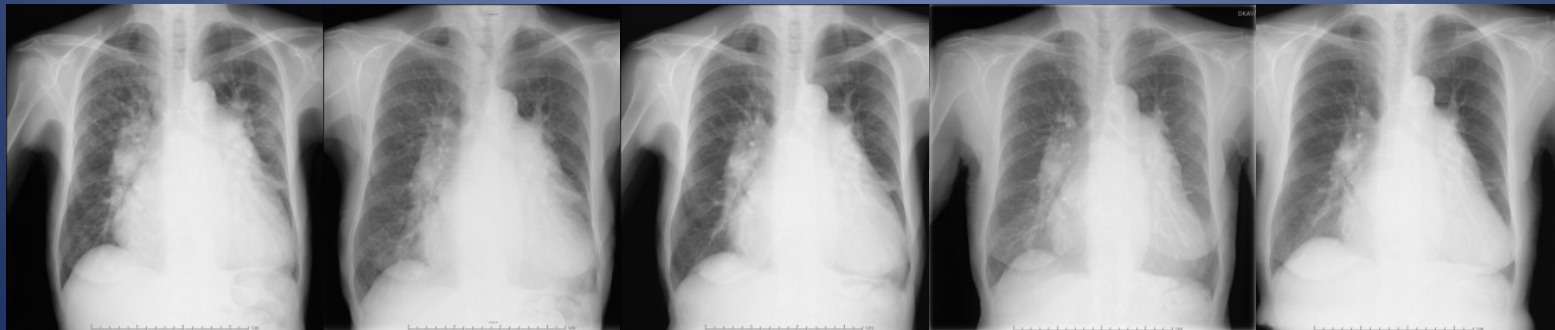
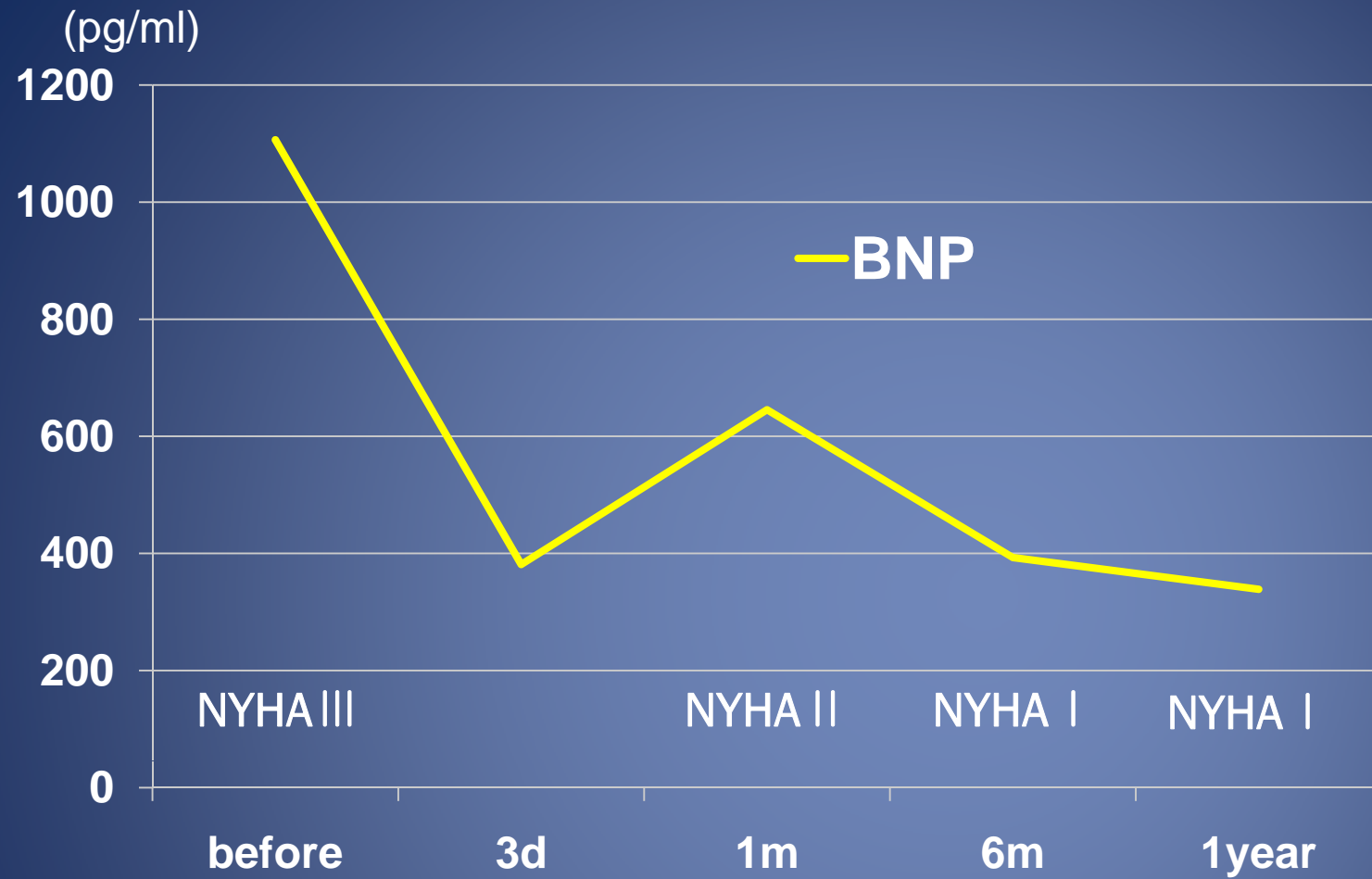


34mm device deployment

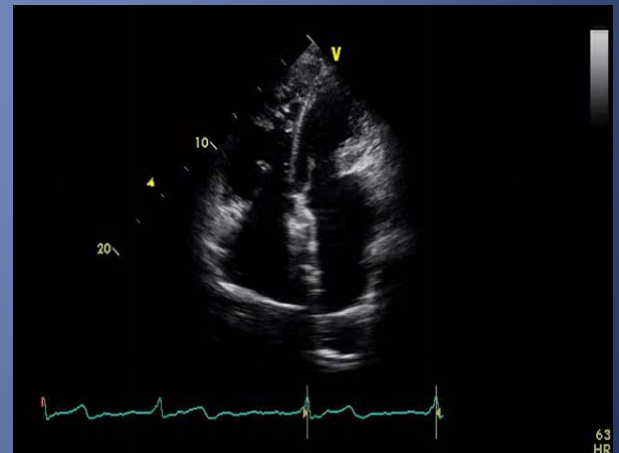
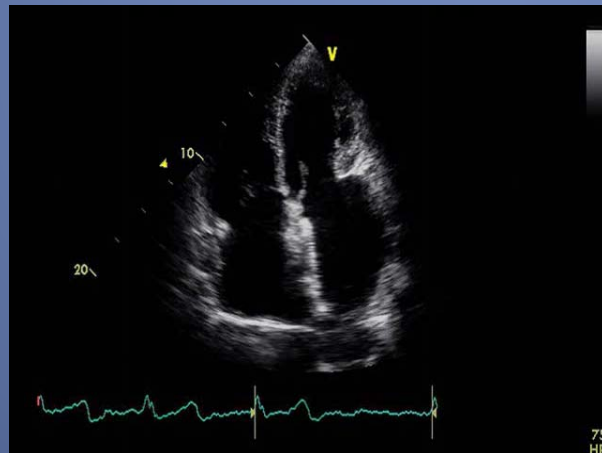
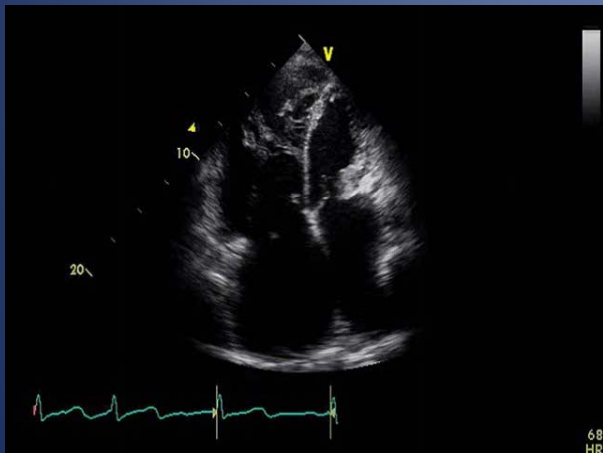
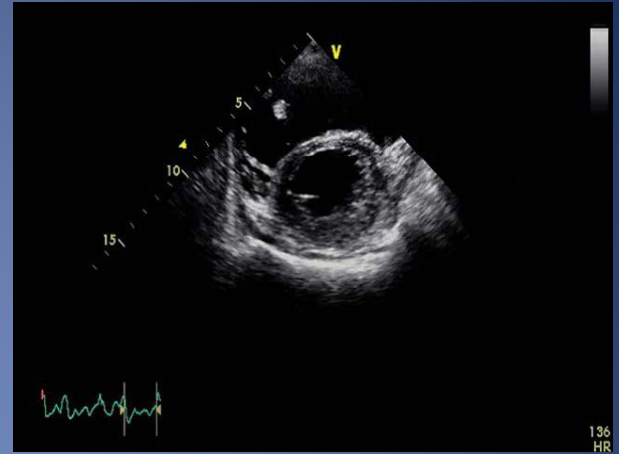
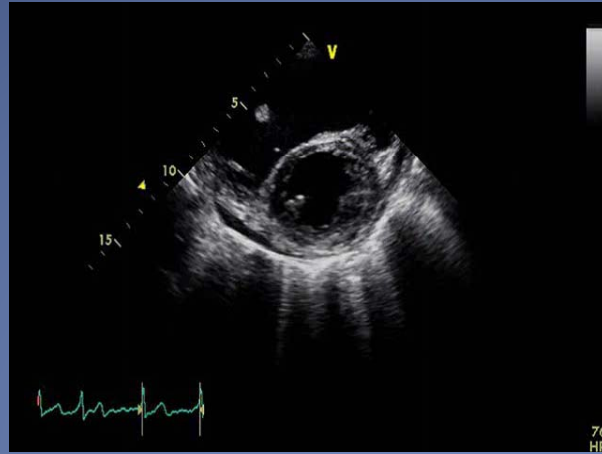
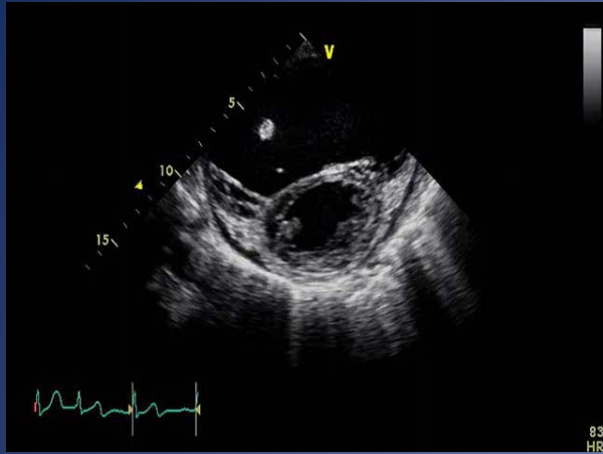
19/06/2009 10:32:35



63  
113:357 HR





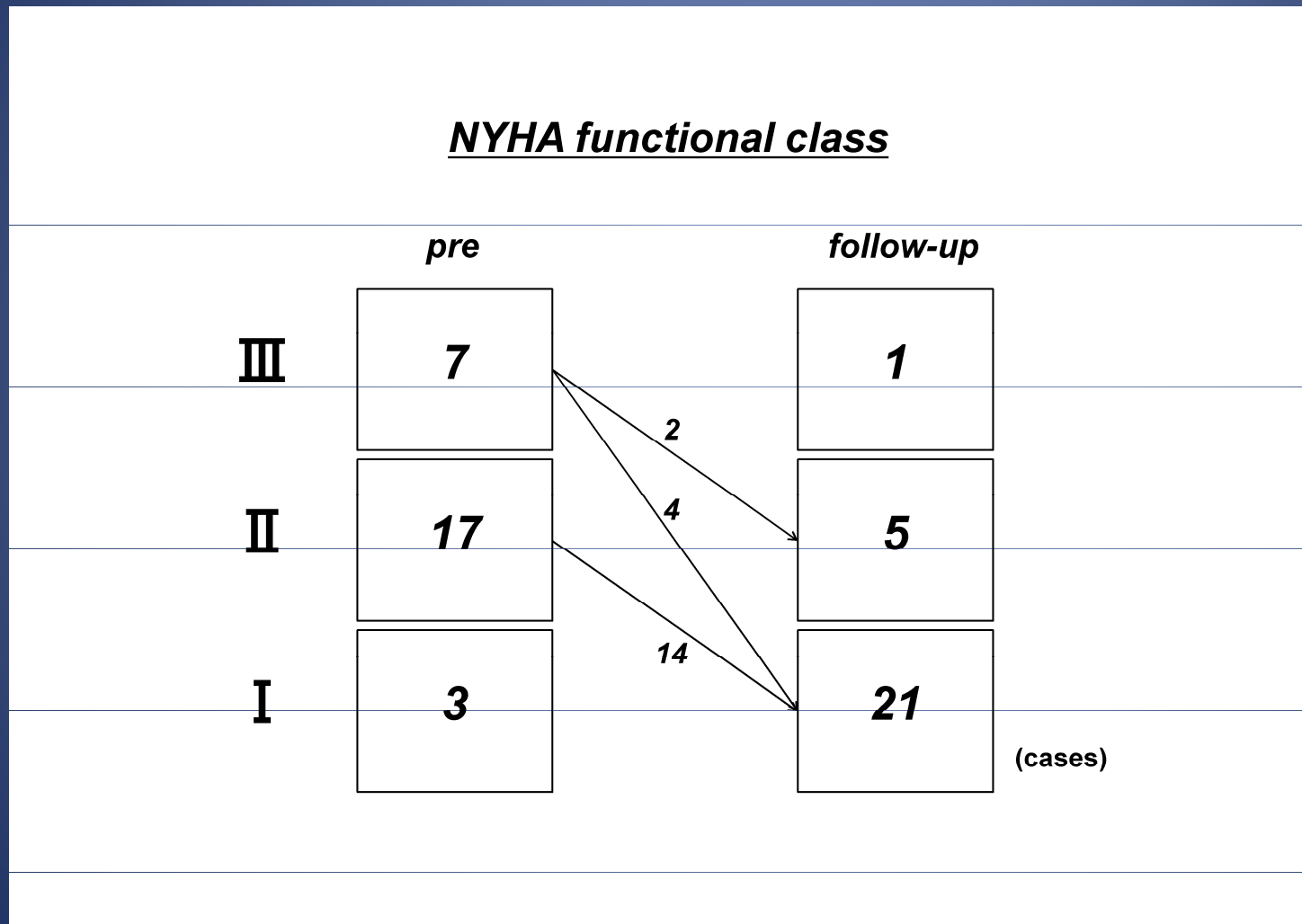


Before

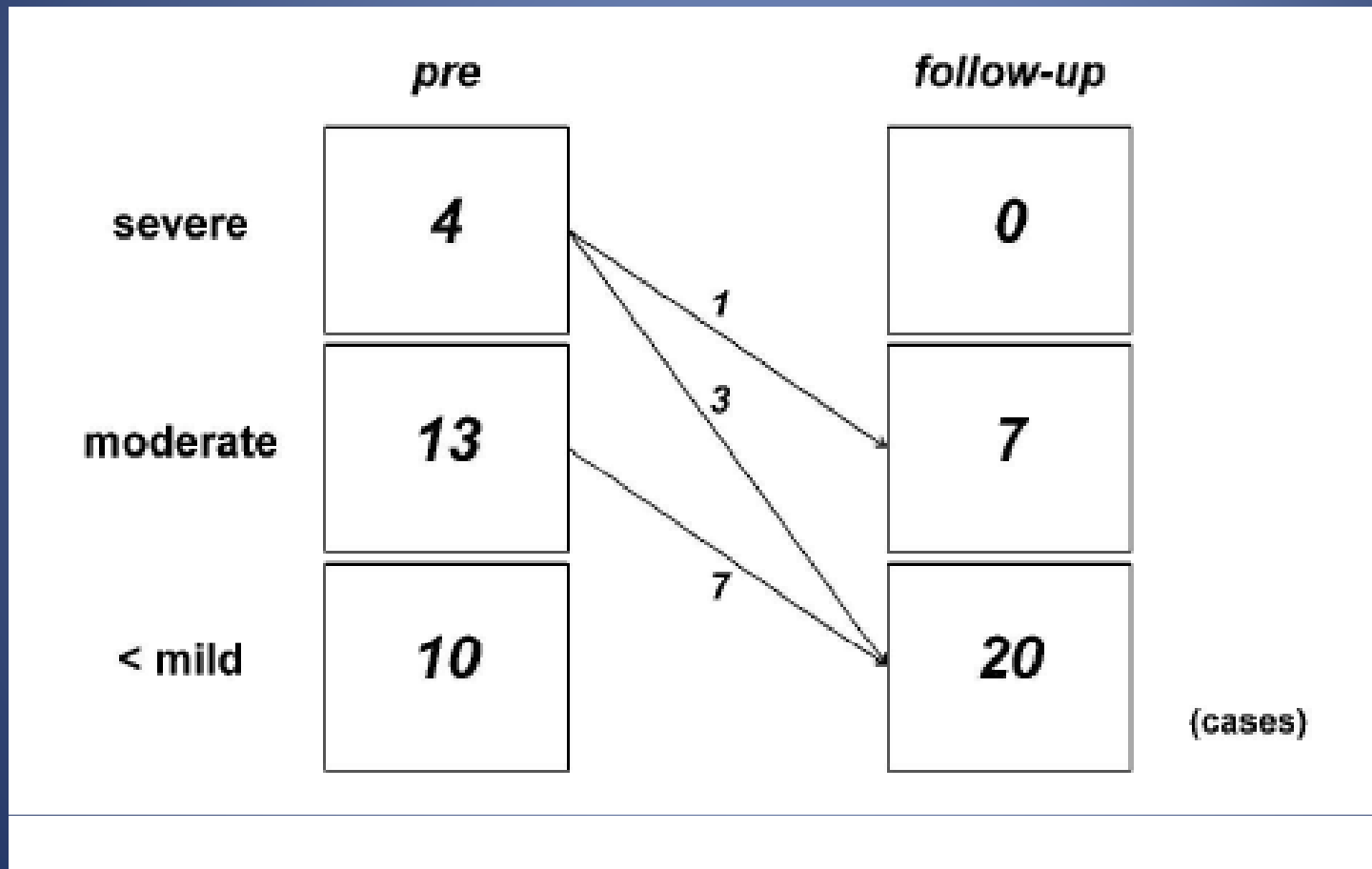
3 days after

6 months after

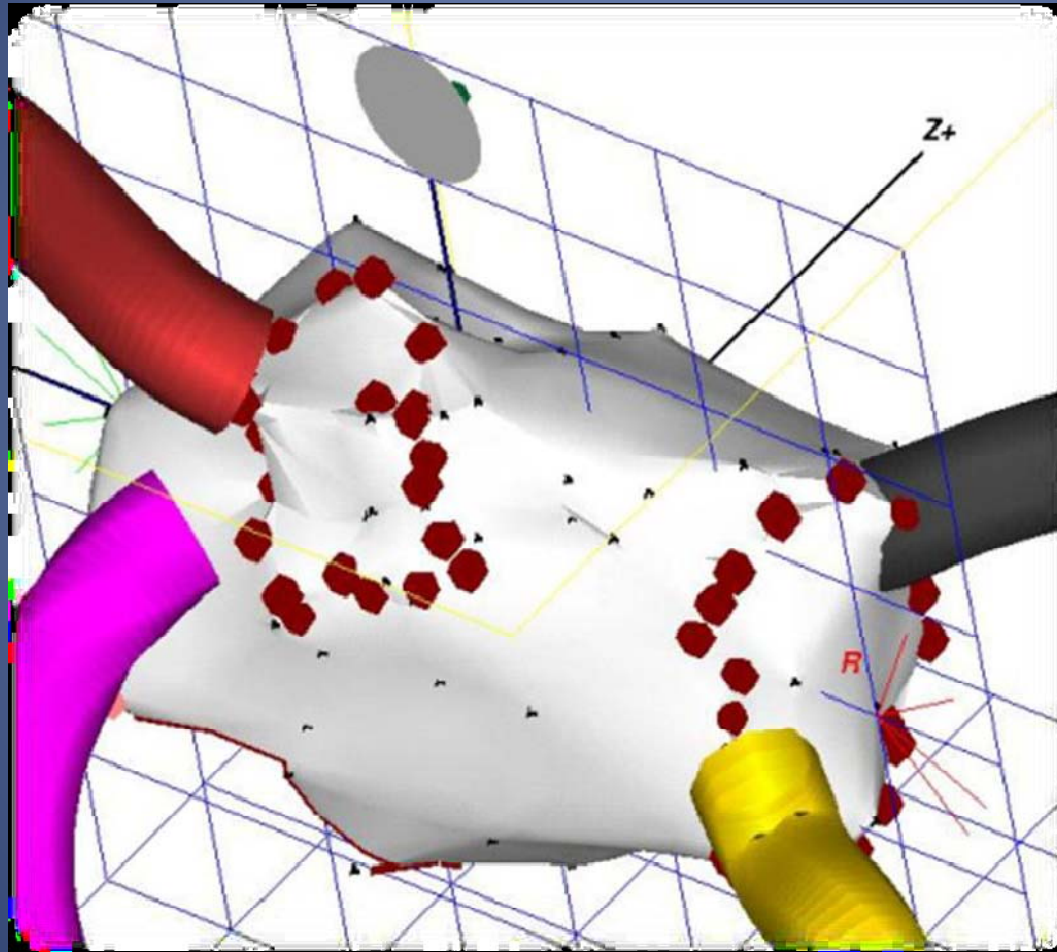
# Improvement of NYHA Class in Patients >70 years



# Tricuspid Regurgitation after ASD closure >70 years old

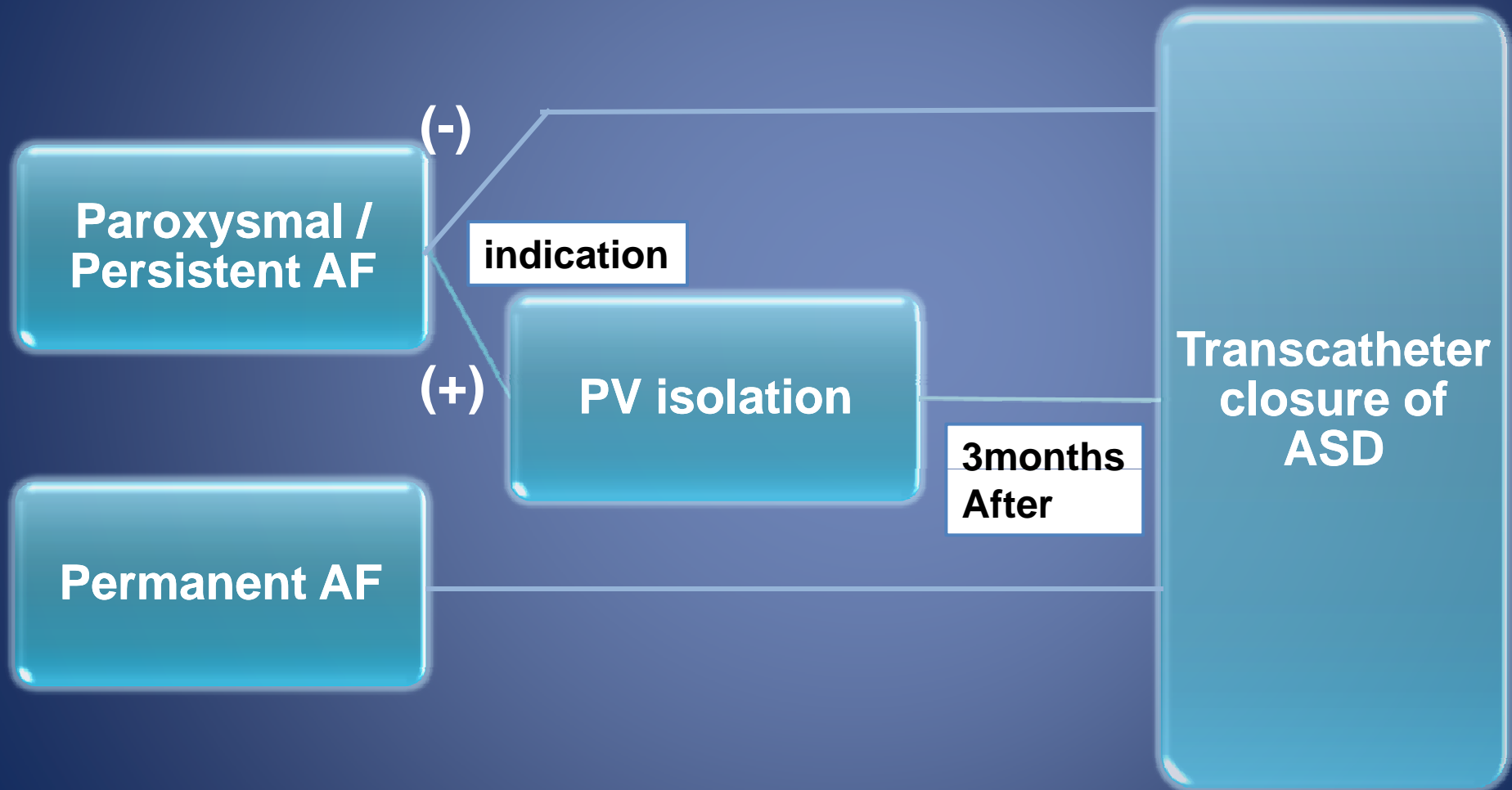


# Pulmonary vein isolation



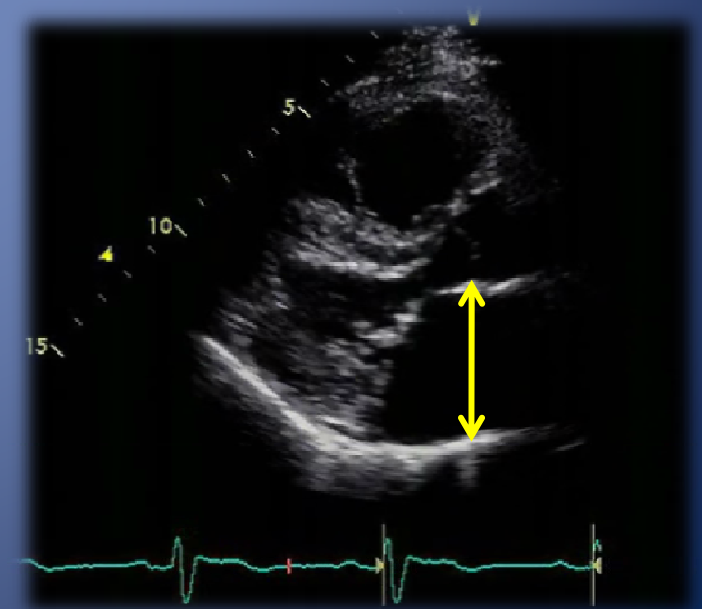
CARTO system was used in all patients.

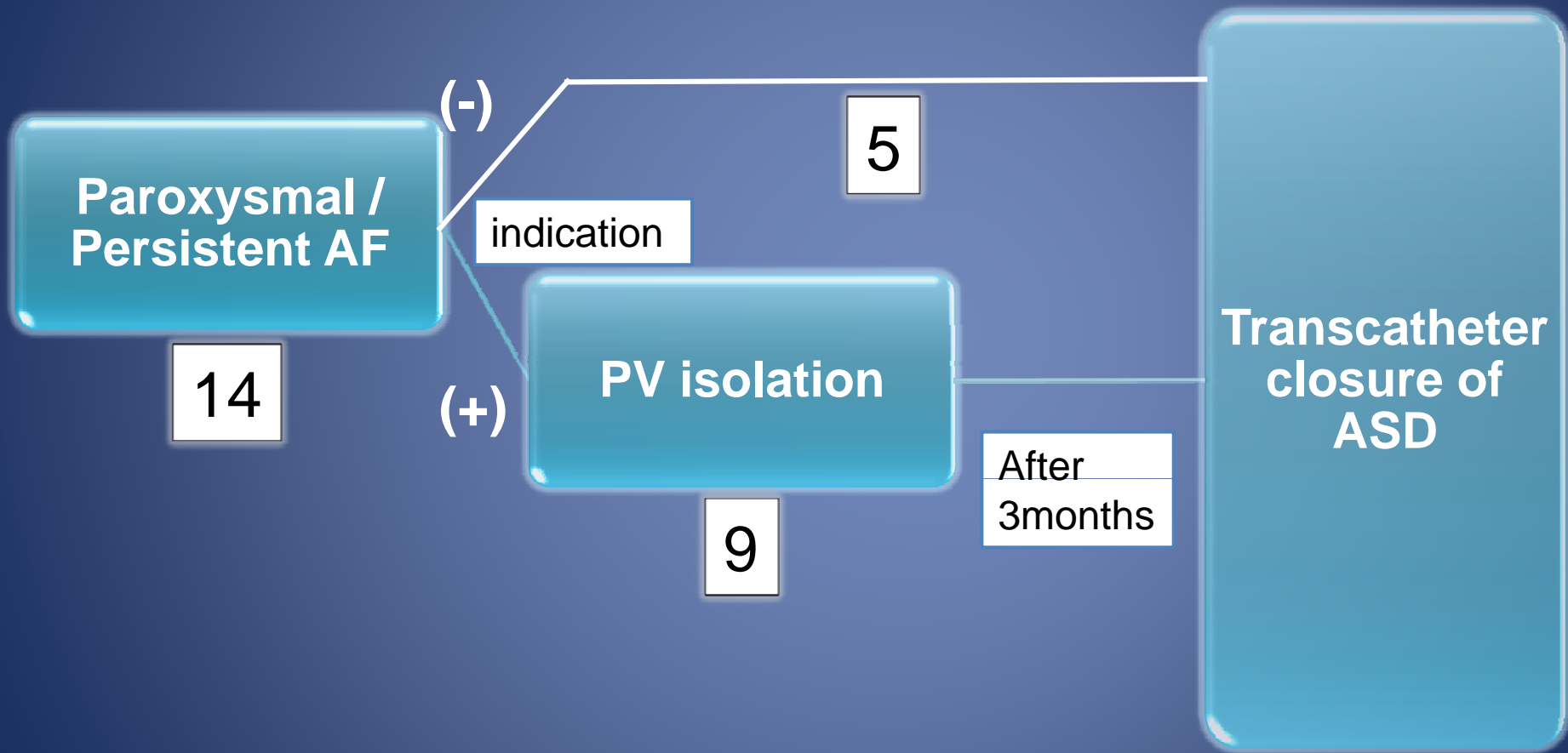
# Strategy for adult ASD patients with AF



# Indications for PV isolation

- ✓ <75 years
- ✓ Paroxysmal or Persistent AF
- ✓ Symptomatic
- ✓ <50mm of anteroposterior LA dimension from the parasternal long-axis view



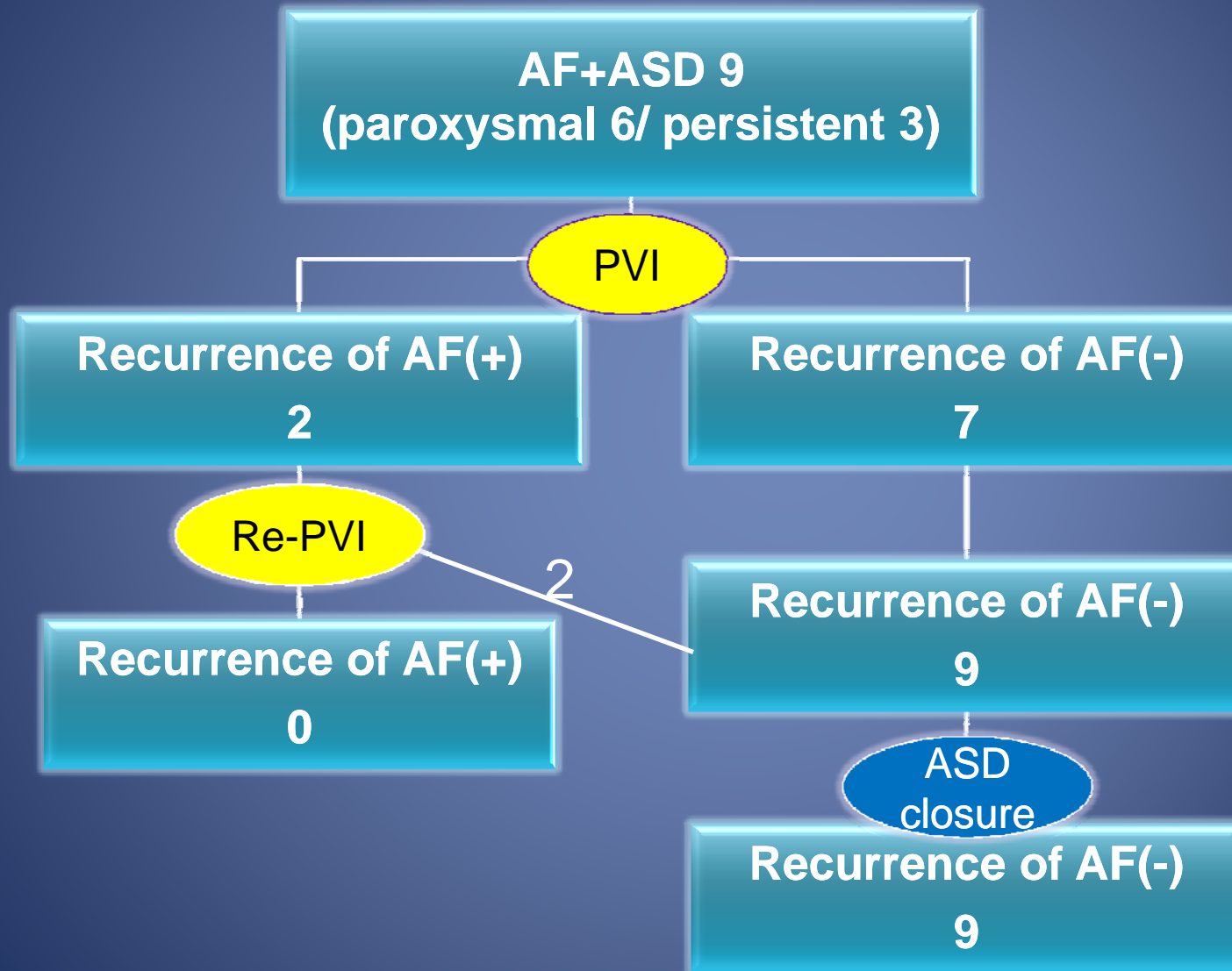


# Patient Characteristics

	Patients (n=9)
Age (yrs)	51.1±15.9 (25-74)
Female (n)	3 (33.3%)
Paroxysmal / Persistent (n)	6 / 3
NYHA class I / II / III	6 / 2 / 1
LA dimension (mm)	39.8±6.8 (27-48)
Qp/Qs	2.3±0.5 (1.7-2.9)
ASD diameter (mm)	18.1±3.2 (12-22)
Device size (mm)	21.9±3.6 (16-26)



# Results



(mean follow-up duration  $16.0 \pm 4.5$  months)

# Conclusions

- ◆ Catheter closure ASD contributes the symptomatic improvement even in elderly patients with atrial fibrillation.
- ◆ Pulmonary vein isolation prior to the catheter closure of ASD should be considered in adult patients with paroxysmal or persistent atrial fibrillation.