



Lady Davis  
Carmel Medical Center



Rappaport  
Faculty of Medicine

# *Acute Pulmonary Hypertension*

## *in a Patient With a Bioprosthetic Mitral Valve*

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PHT Meeting, Tel Aviv, 7/2011

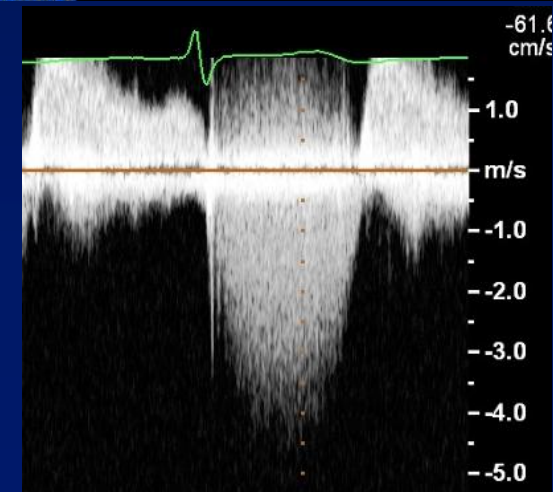
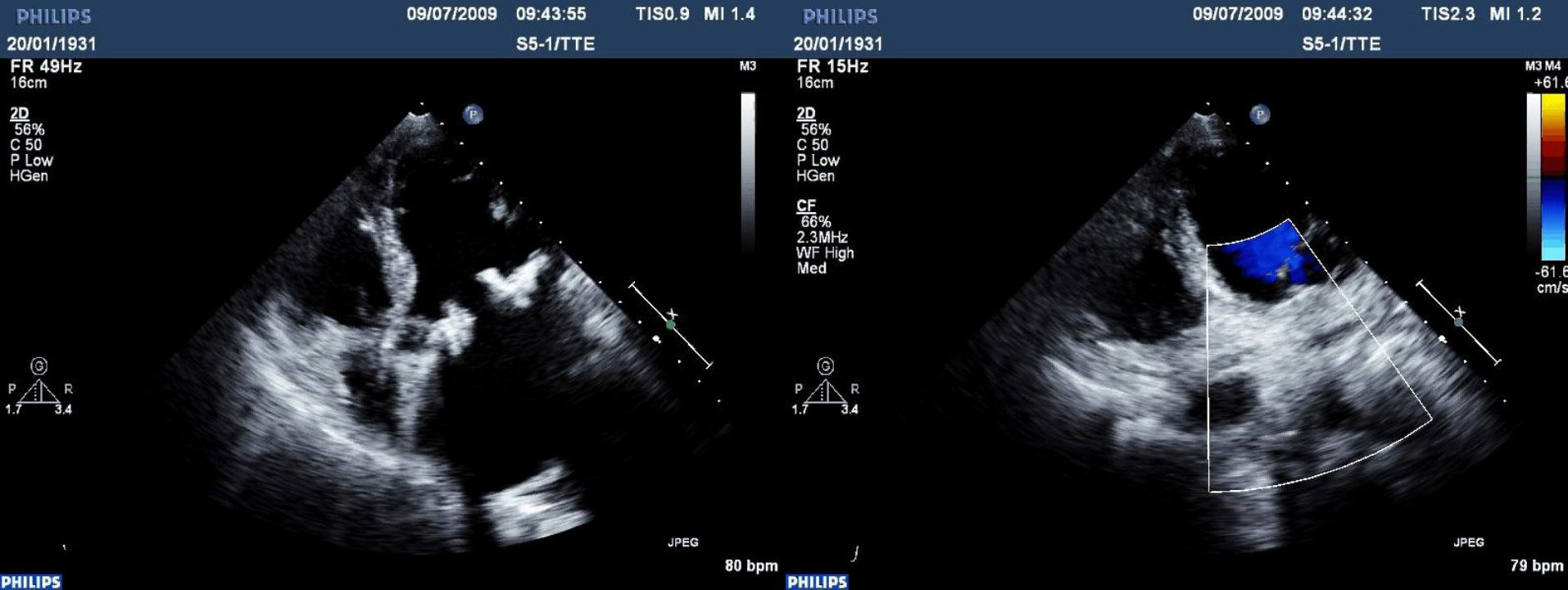
# Case history

- 78 y woman
- RHD and mitral stenosis
- MV commissurotomy age 29
- MVR with a bioprosthesis age 57 (?)
- Redo MVR with a bioprosthesis age 68
- Echo 2y before – normal PV
- Dyspnea FC-3 for 1 week

# Physical Examination

- HR 96/min
- BP 140/80
- RR 20/min
- Apical SM 3/6
- Bilateral crepitations 2/3 of lungs

# TTE



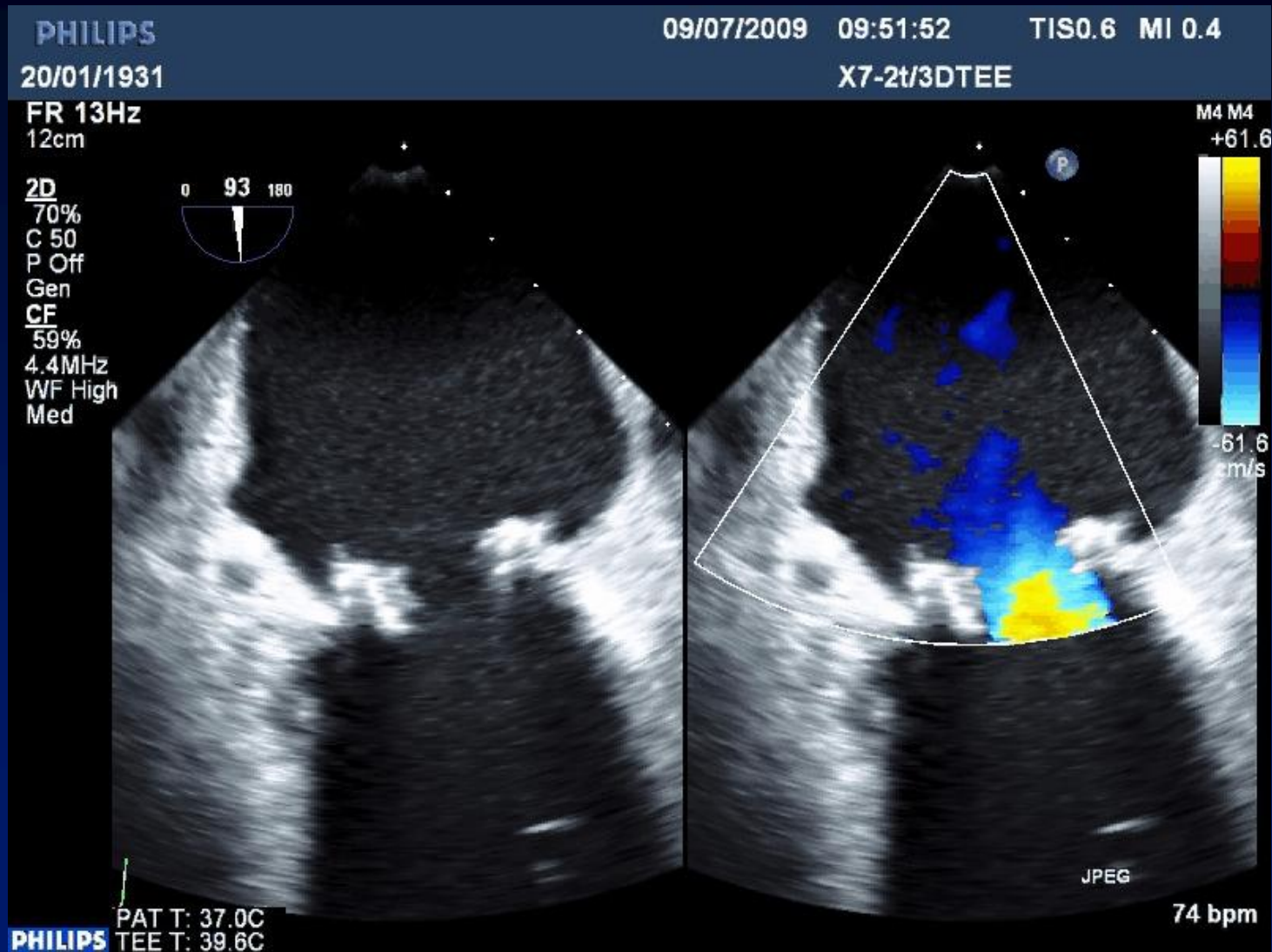
E wave = 247 cm/sec

$\Delta P = 27/11$  mmHg

MVA ( $Pt_{1/2}$ ) = 2 cm<sup>2</sup>

Sys PAP = 66 mmHg

# TEE – 2D



VC=5mm

# TEE – 2D

LUPV

100/84

RUPV



# TEE – 3D

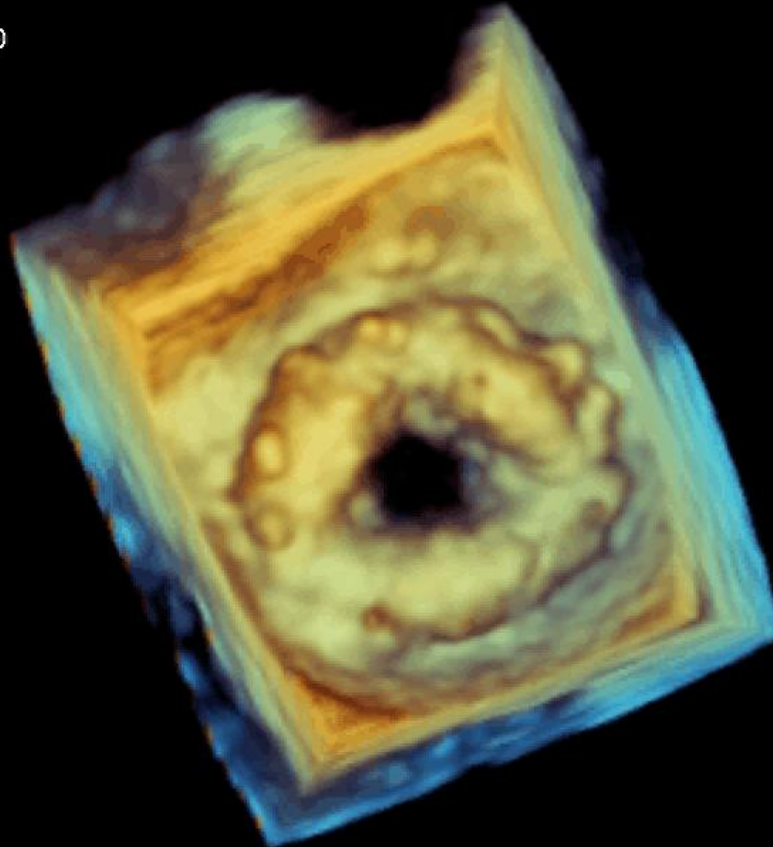
2009/07/09  
CARMEL MEDICAL CENT.

09:58:48AM

VR 18Hz  
4cm



Live 3D  
3D 1%  
3D 50dB



73 bpm

PHILIPS

# TEE – 3D

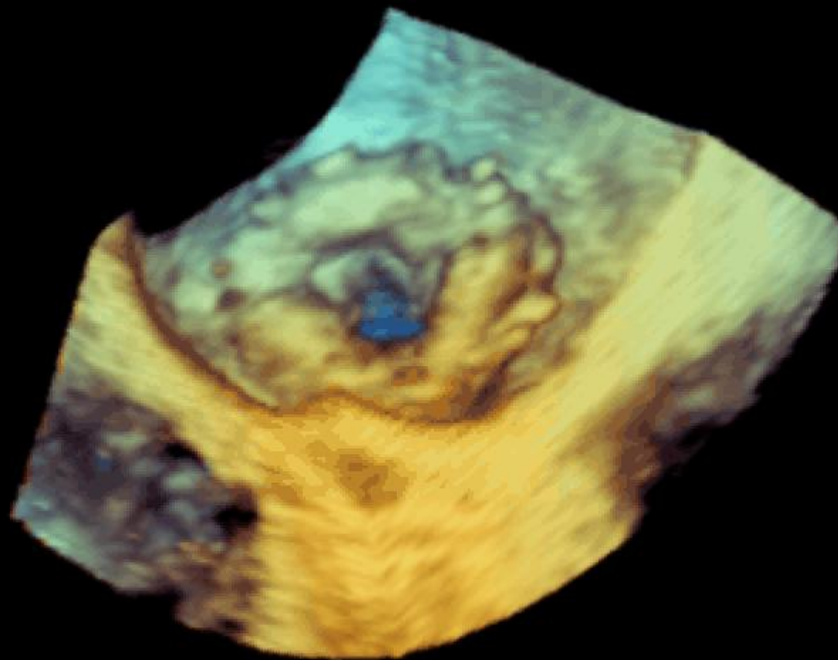
2009/07/09  
CARMEL MEDICAL CENT.

09:58:48AM

VR 18Hz  
4cm



Live 3D  
3D 1%  
3D 50dB

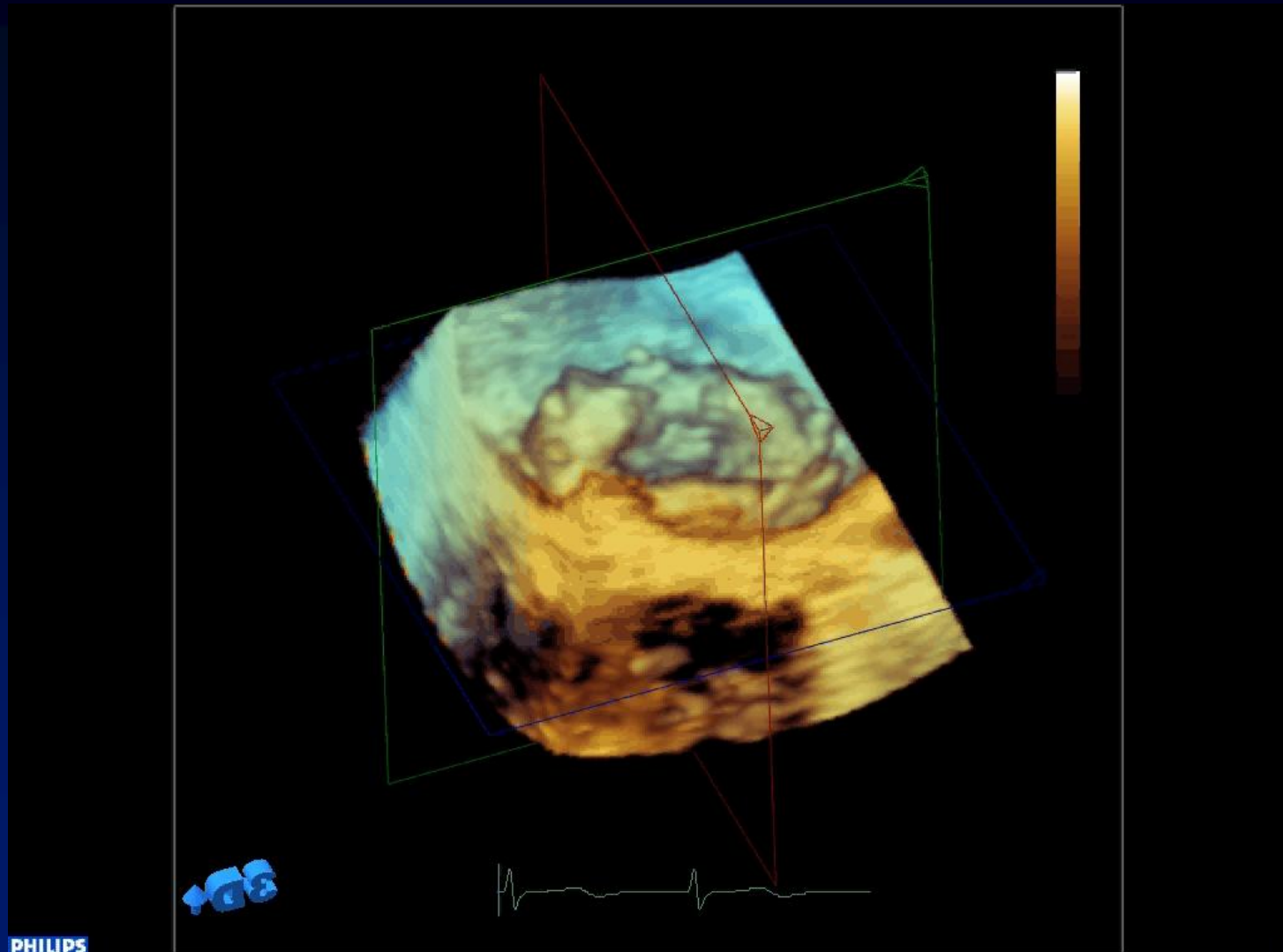


73 bpm

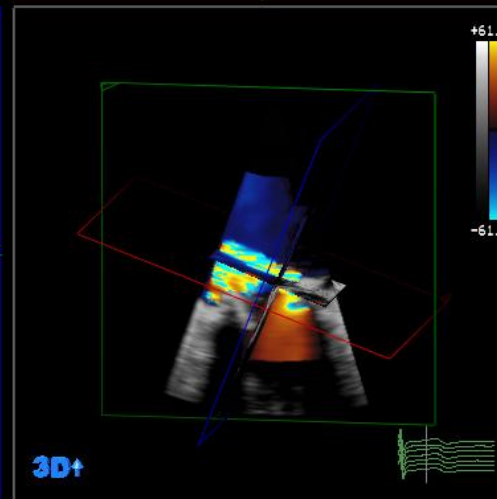
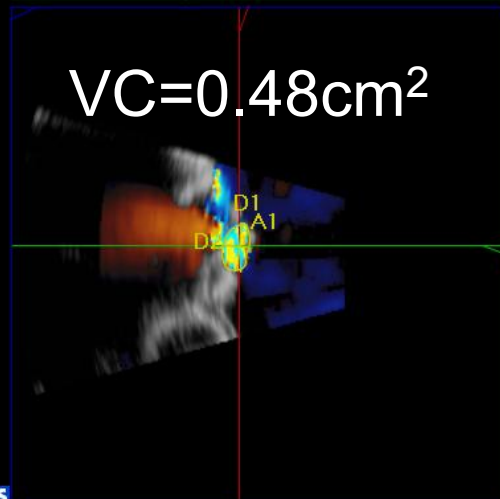
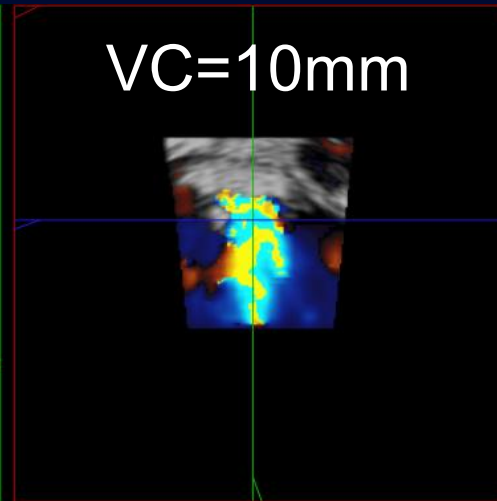
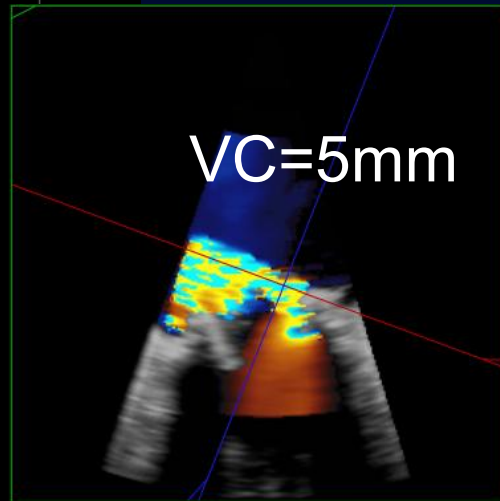
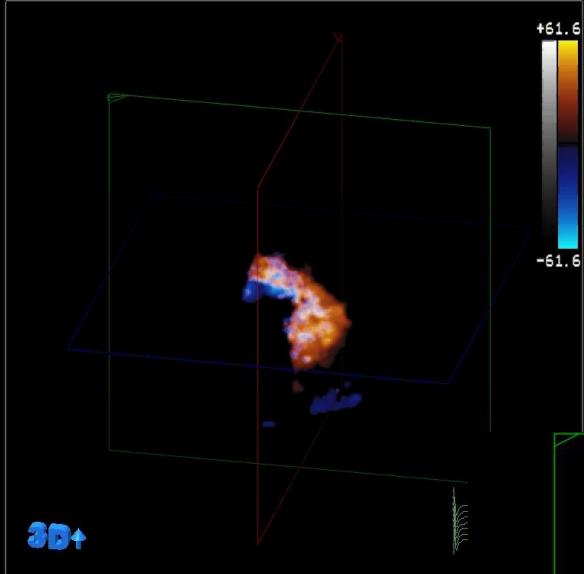
PHILIPS



# TEE – 3D



# TEE – 3D color

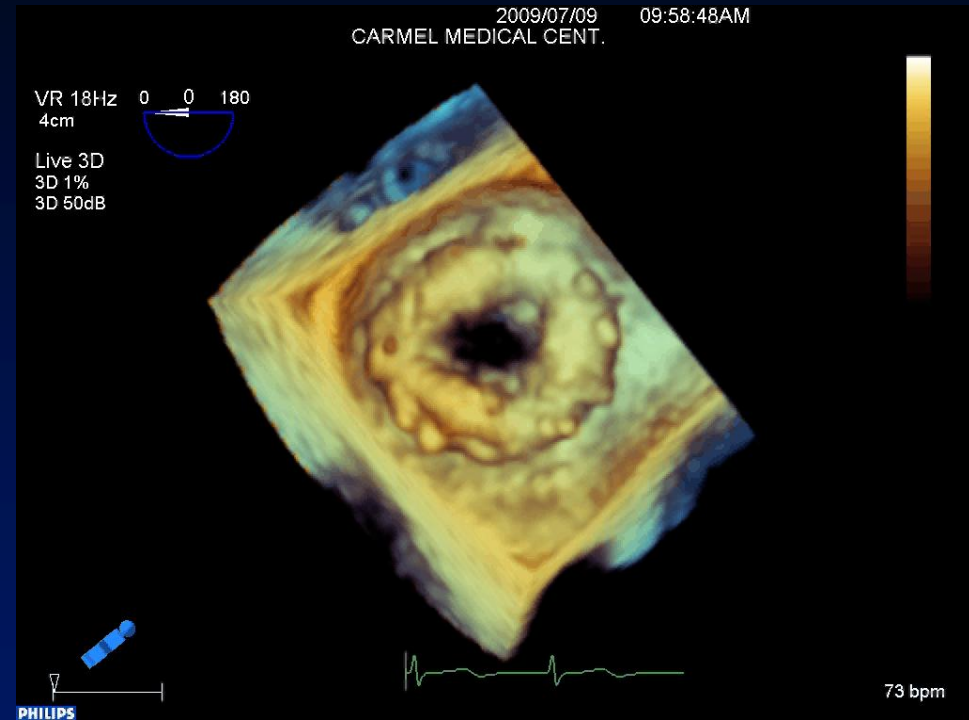


Distance(s)  
D1 = 1.02 cm I X  
D2 = 0.54 cm I X  
Area(s)  
A1 = 0.48 cm<sup>2</sup> I X

# What would you advise the patient?

- Medical treatment. Enough with the surgeries
- Re – re –redo MVR with a bioprosthesis
- Re – re –redo MVR with a mechanical valve
- Something else?

# Re – re – redo MVR mosaic #27



Patients discharged 1 month after surgery