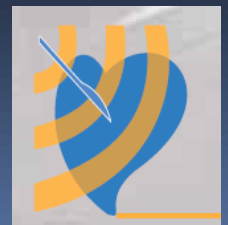


**IL CARDIOLOGO ESPERTO IN IMAGING
NON INVASIVO NELL'APPROCCIO
ECOCARDIOGRAFICO DELL'ENDOCARDITE
IL 3D PUO' ESSERCI DI AIUTO?
RUOLO DELL'ECO NELL'ENDOCARDITE
SU VALVOLA NATIVA E SU PROTESI
VALVOLARE.**

**Dr. ALESSANDRO CIALFI. Responsabile Diagnostica non
Invasiva.**

**AZIENDA OSPEDALE «L.SACCO» MILANO
VII CONGRESSO DI ECOCARDIOCHIRURGIA MILANO**



AZIENDA OSP SACCO MI DISPONE DI 3 UO
INFETTIVI + CARDIOCHIRG: INCIDENZA EI 25
CASI/ANNO DAL 2003



TEE 3D EI MITRALE 1° CASO

DONNA 34 A, IPERPIRESSIA 15 GG, 2 TER ANTIBIOT. INEFFICACI,
SOFFIO SISTOLICO

PS 44041620100806 07/09/20 11 PHILIPS 44041620100806 07/09/20 10:21:53 TIS0.3 MI 0.5
C CX7-2t/Adulti

FR 6Hz
6.0cm

Live 3D
3D 47%
3D 40dB
Gen

0 52 180

0 0 180

PLP

JPEG

Temp. PAZ.: 37.0C
Temp. TEE: 39.4C

126 bpm

53 bpm

Temp. PAZ.: 37.0C
Temp. TEE: 38.3C



EI MITRALE COMM MEDIALE

S
44041620100806 S O CARDIOCHIRURGIA CX7-2t/A

07/09/20'

10:35:32

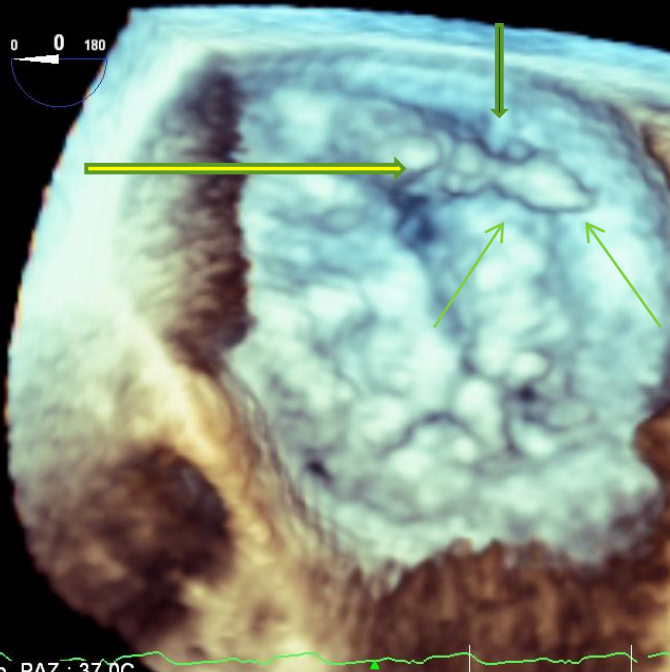
PHILIPS

07/09/20

10:19:49

TISO.3 MI C

CX7-2t/Adulti



FR 6Hz
6.0cm

Live 3D
3D 47%
3D 40dB
Gen

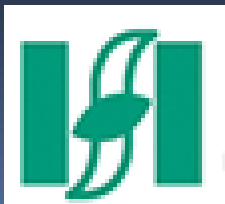


Temp. PAZ.: 37.0C
Temp. TEE: 37.7C

Temp. PAZ.: 37.0C
Temp. TEE: 39.0C

JPEG

4



EI PLASTICA MITRALE

PHILIPS 07/09/2010 10:22:05 TIS0.3 MI 0.5 PHILIPS 07/09/2010 12:11:38 TIS0.1 MI 0.6
CX7-2t/Adulti 44041620100806 CX7-2t/Adulti

FR 6Hz 6.0cm M4 FR 6Hz 5.2cm M4
Live 3D 3D 47% 3D 40dB Gen Live 3D 3D 47% 3D 40dB Gen

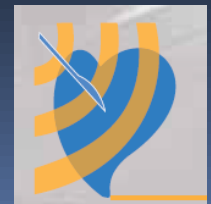
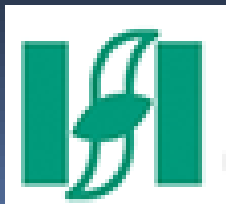
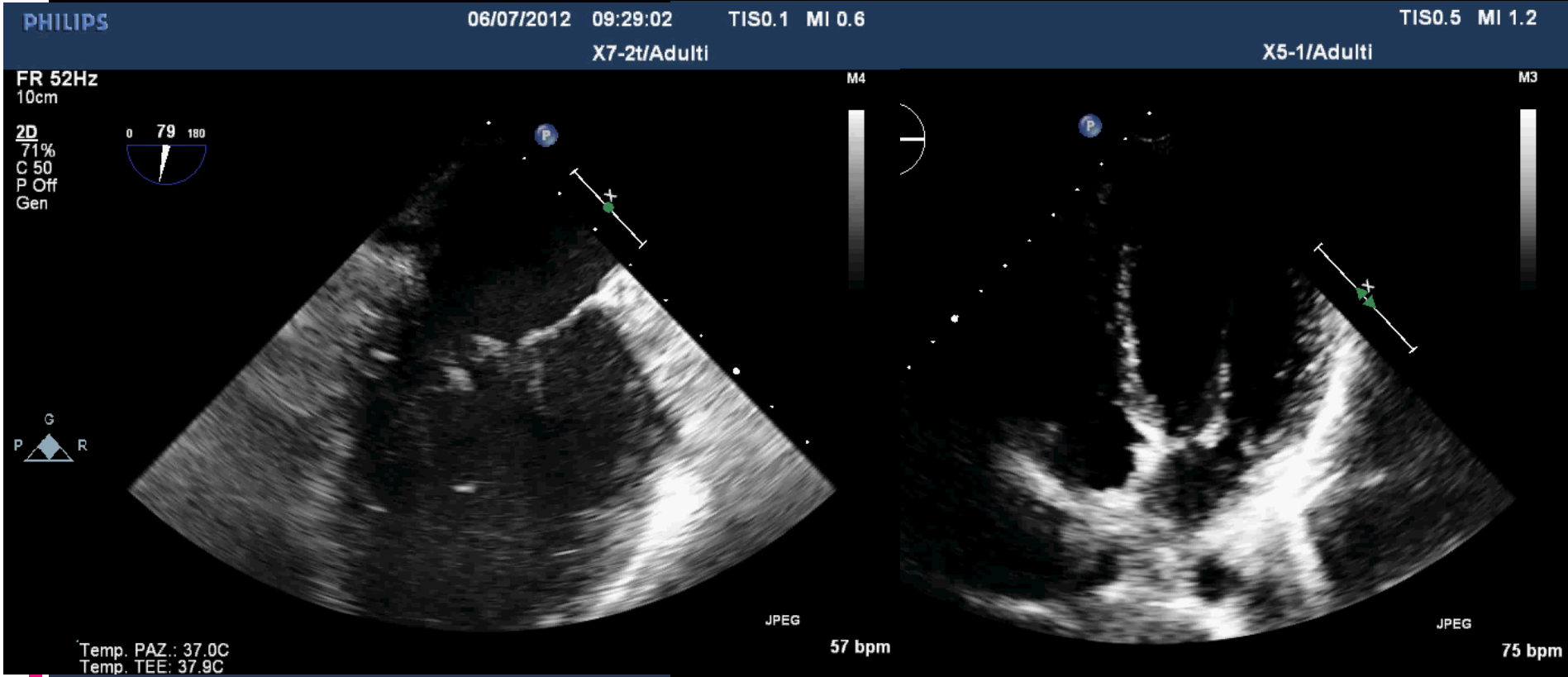
Temp. PAZ.: 37.0C Temp. TEE: 39.6C Temp. PAZ.: 37.0C Temp. TEE: 38.2C

JPEG 91 b JPEG 68 bp



EI VALVOLA MITRALE

DONNA 45 A, HIV+, NON TD, IPERPIRESSIA 20 GG, T. ANTIB,
INEFFICACE, SOFFIO SISTOLICO 4/VI



EI MITRALE 3D COLOR

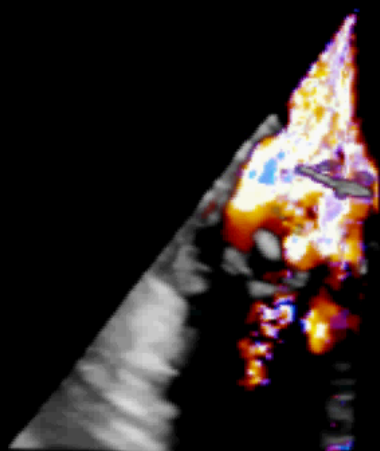
06/07/2012 09:23:05 TIS0.6 MI 0.8

X7-2t/Adulti

06/07/2012 09:23:25 TIS0.2 MI 0.5

X7-2t/Adulti

complete65 180



M4 M4

+61.6



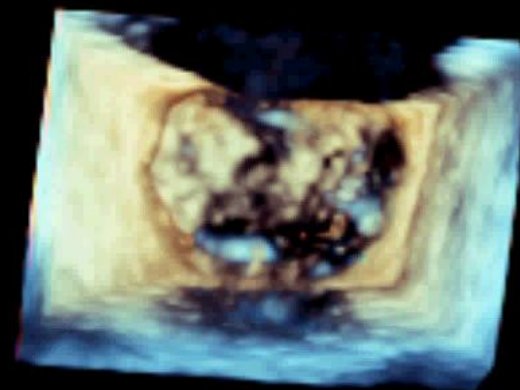
complete65 180

-61.6

JPEG

58 bpm
amp. PAZ.: 37.0C
amp. TEE: 38.4C

M4



JPEG

74 bpm



EI VALV MITRALE TEE/TTE 3D

06/07/2012 09:23:25

PHILIPS

TIS0.7 MI 1.3

X7-2t/Adult

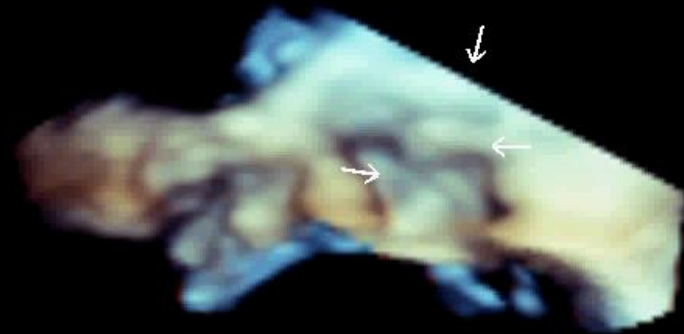
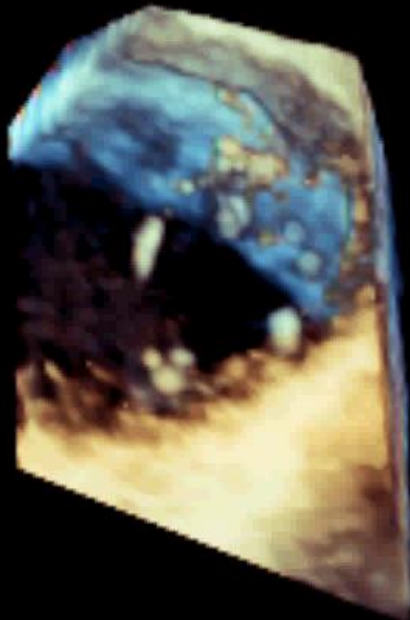
X5-1/Adulti

FR 22Hz
15cm

Battiti 3D 4Q

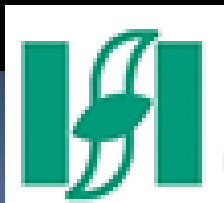
M3

3D
3D 39%
3D 69dB



Valvola mitrale

7.0C
4.4C



Ritardo 0ms



69 bpm

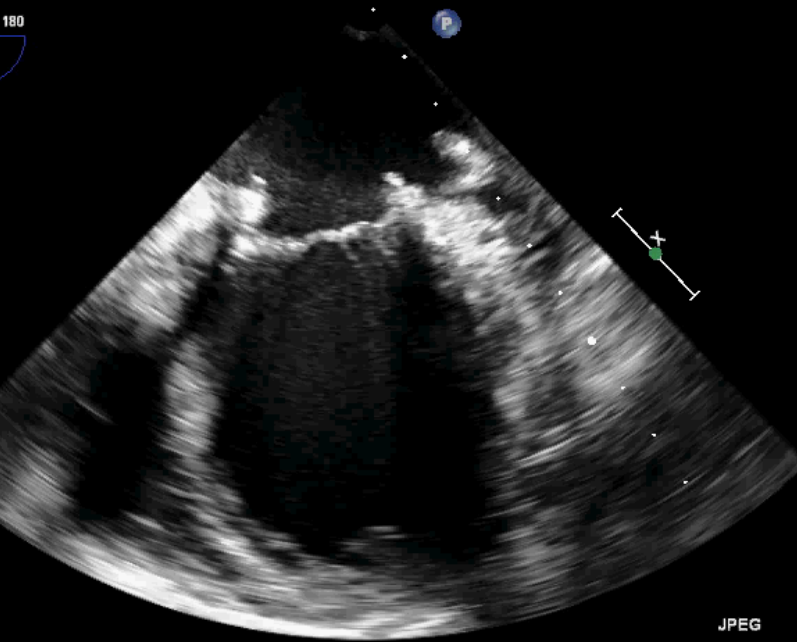
RISULTATO PLASTICA MITRALE

06/07/2012 11:51:55 TIS0.1 MI PHILIPS
X7-2t/Adulti

06/07/2012 11:47:49 TIS0.3 MI 0.5
X7-2t/Adulti

187

180

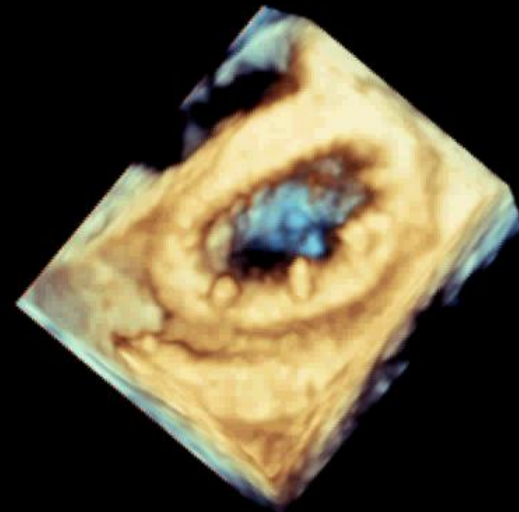


FR 14Hz
6.5cm

Live 3D
3D 27%
3D 40dB
Gen



M4



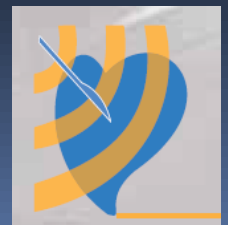
JPEG

JPEG

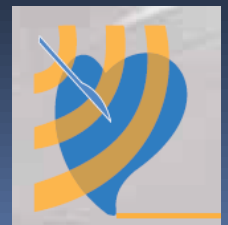
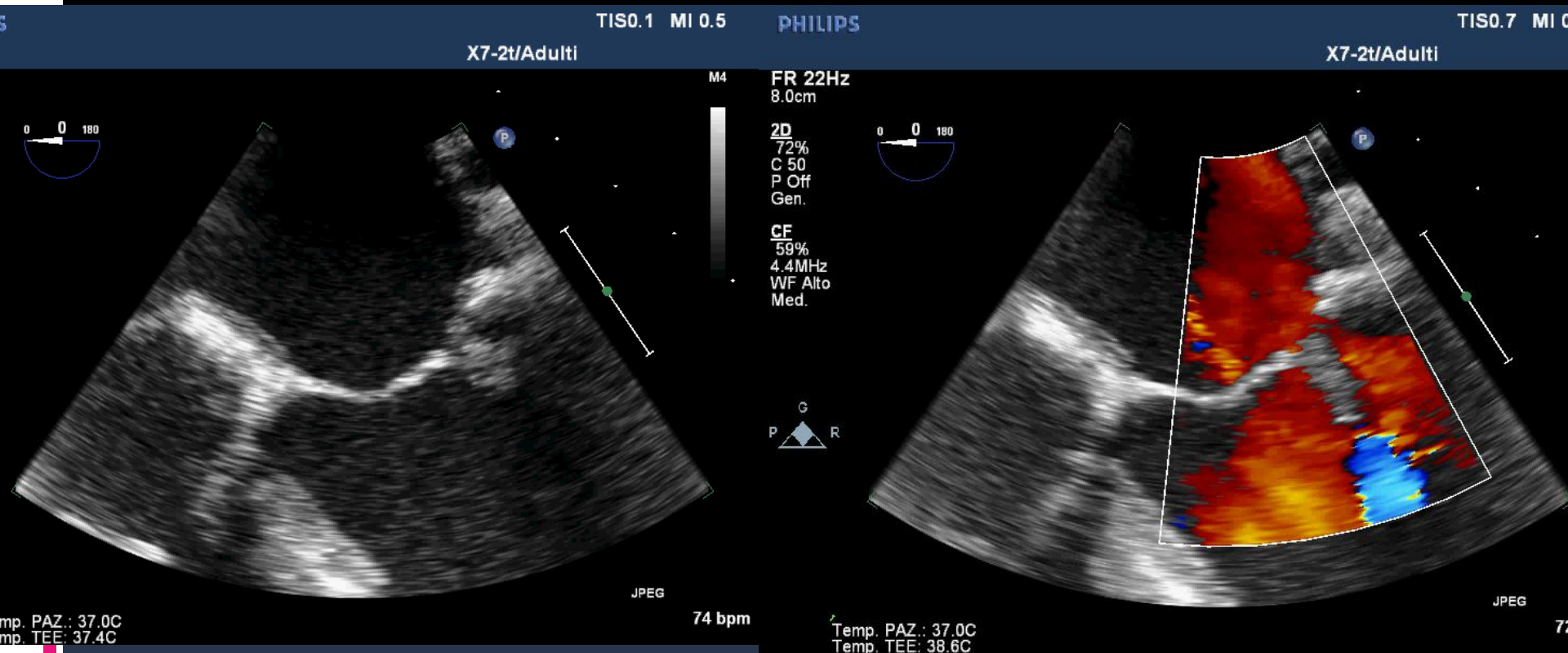
37.0C
38.7C

Temp. PAZ.: 37.0C
Temp. TEE: 39.5C

68 bpm



EI VALV MITR P2



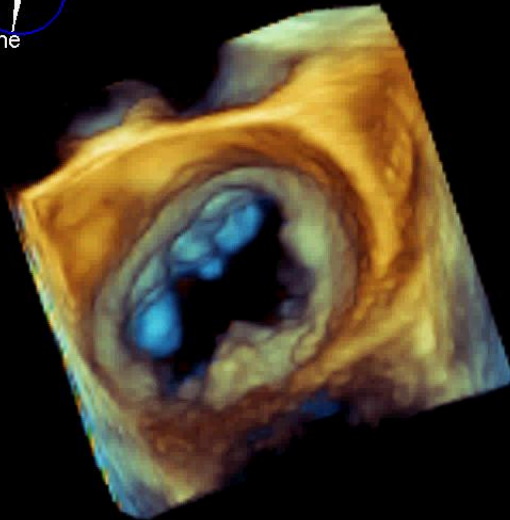
EI VALV MITR P2

PHILIPS

MONEDA, ANGELA
EXT13293

2013/11/29 08:16:37 AM IS 0.2 MI 0.5
OSP. L.SACCO - ECOG 214101

VR 8Hz 80 180
5cm
Full Volume
3D 40%
3D 38dB



PHILIPS

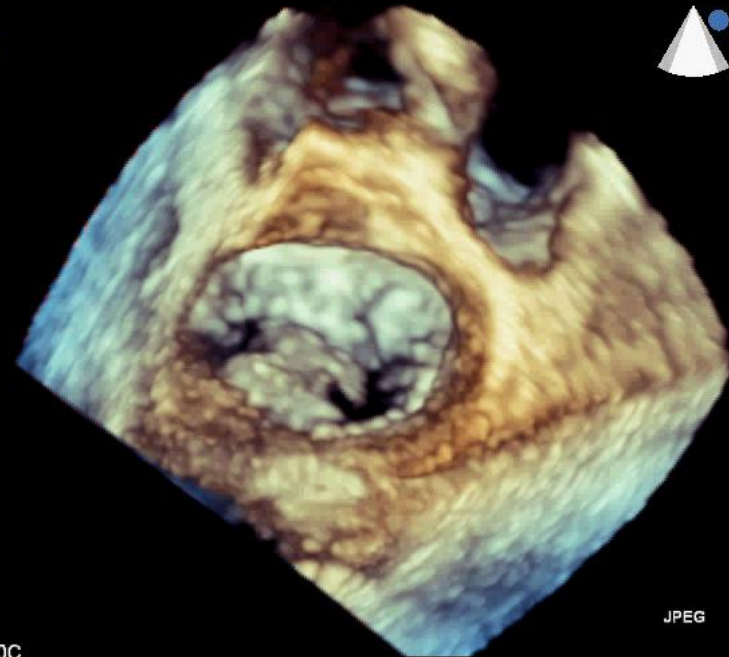
TIS0.2 MI

X7-2t/Adulti

FR 8Hz
8.1cm

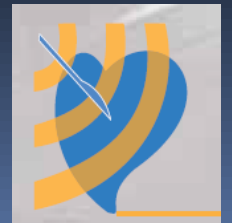
Battiti 3D 1

3D
3D 47%
3D 40dB



Temp. PAZ : 37.0C
Temp. TEE : 39.9C

JPEG



EI VALV MITR P2

PHILIPS TIS0. PHILIPS TIS0.2 MI 0.5

X7-2t/Adulti X7-2t/Adulti

Battiti 3D 1 Battiti 3D 1

FR 8Hz 8.1cm

3D 3D 47% 3D 40dB Gen.

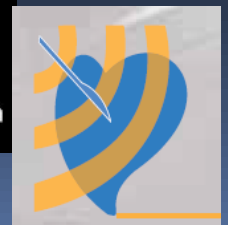
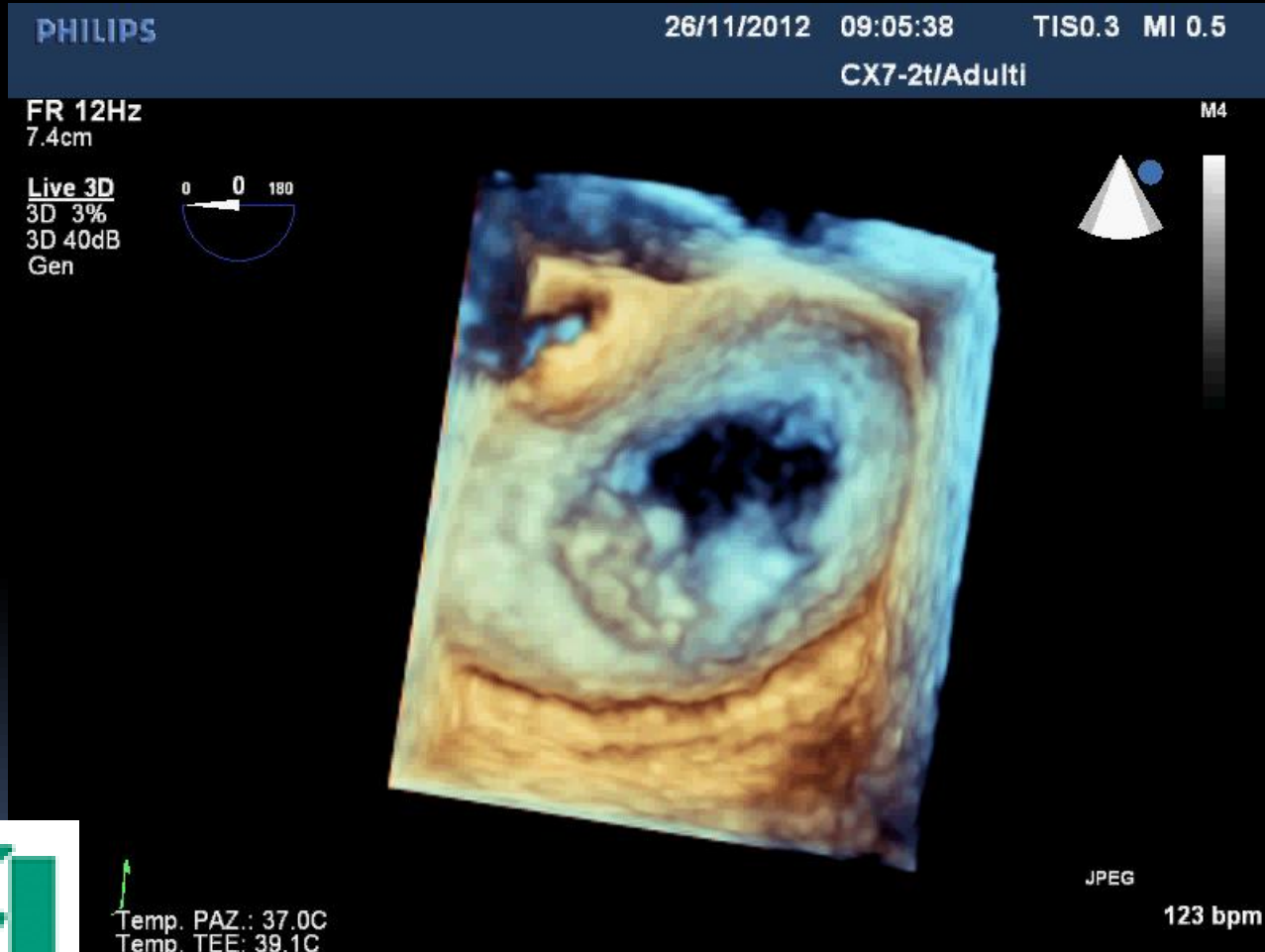
Temp. PAZ.: 37.0C
Temp. TEE: 39.9C

Temp. PAZ.: 37.0C
Temp. TEE: 39.9C



67 bp

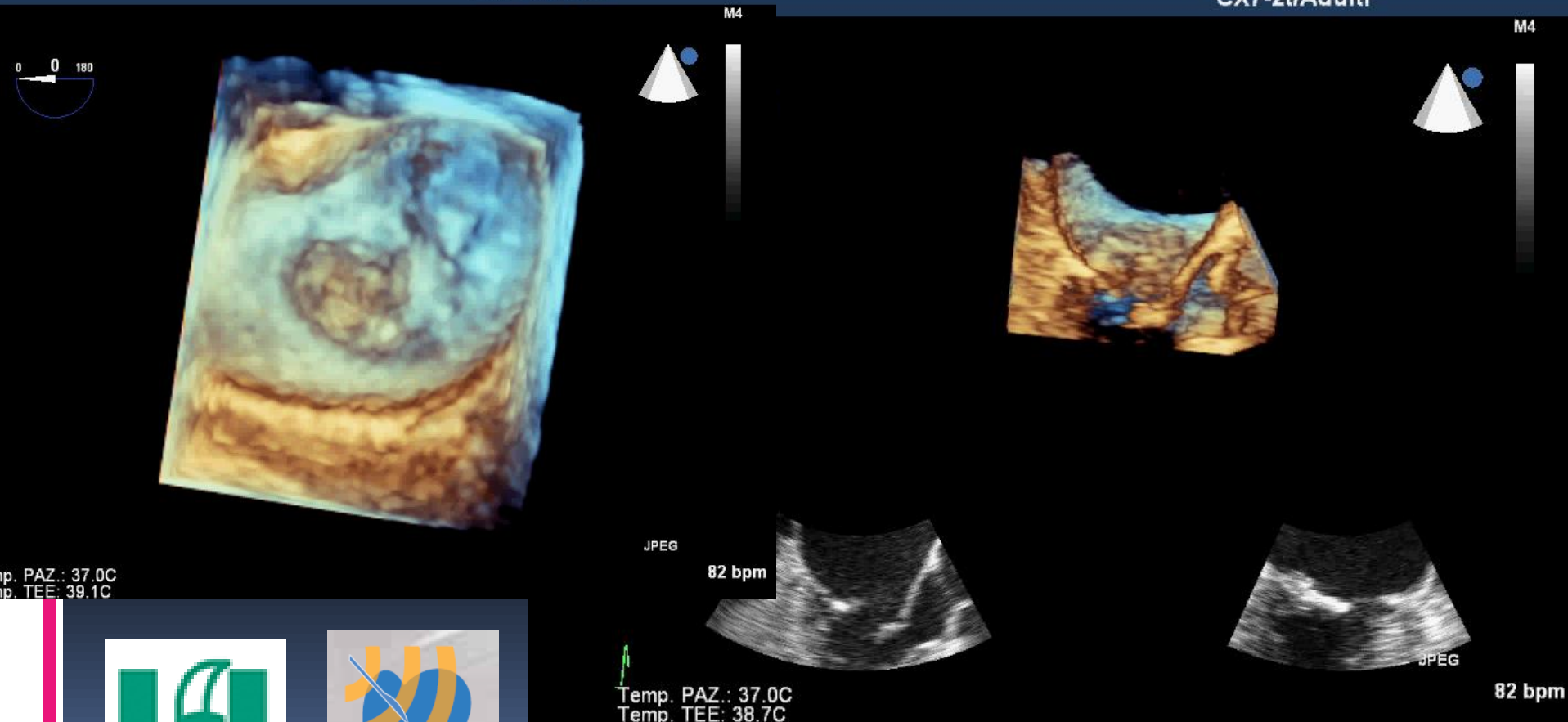
EI VALV MITR COMM LATERALE



EI VALV MITR COMM LATERALE

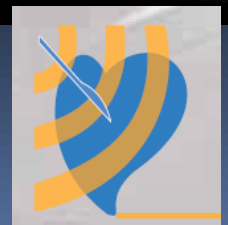
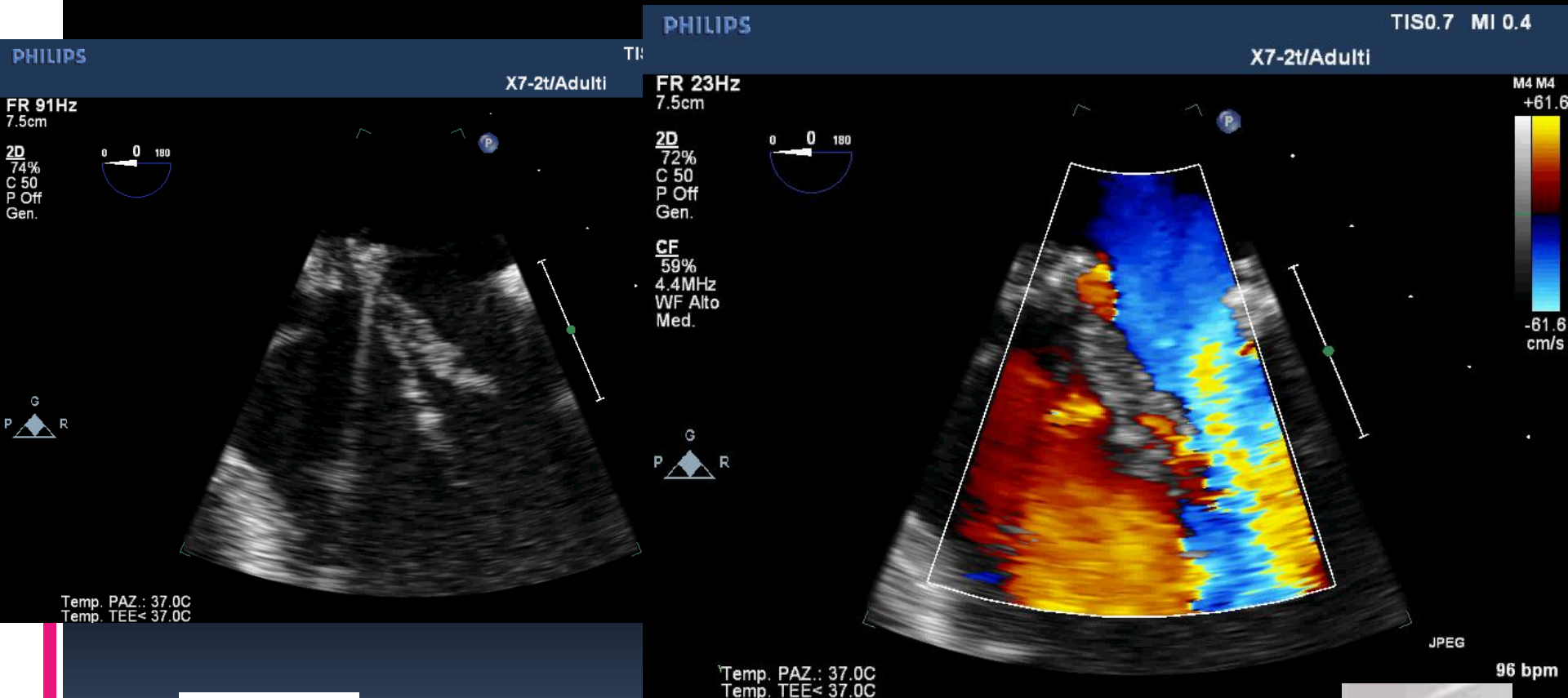
26/11/2012 09:05:33 TIS0.3 MI 0.5
CX7-2t/Adulti

26/11/2012 09:07:32 TIS0.2 MI 0.5
CX7-2t/Adulti

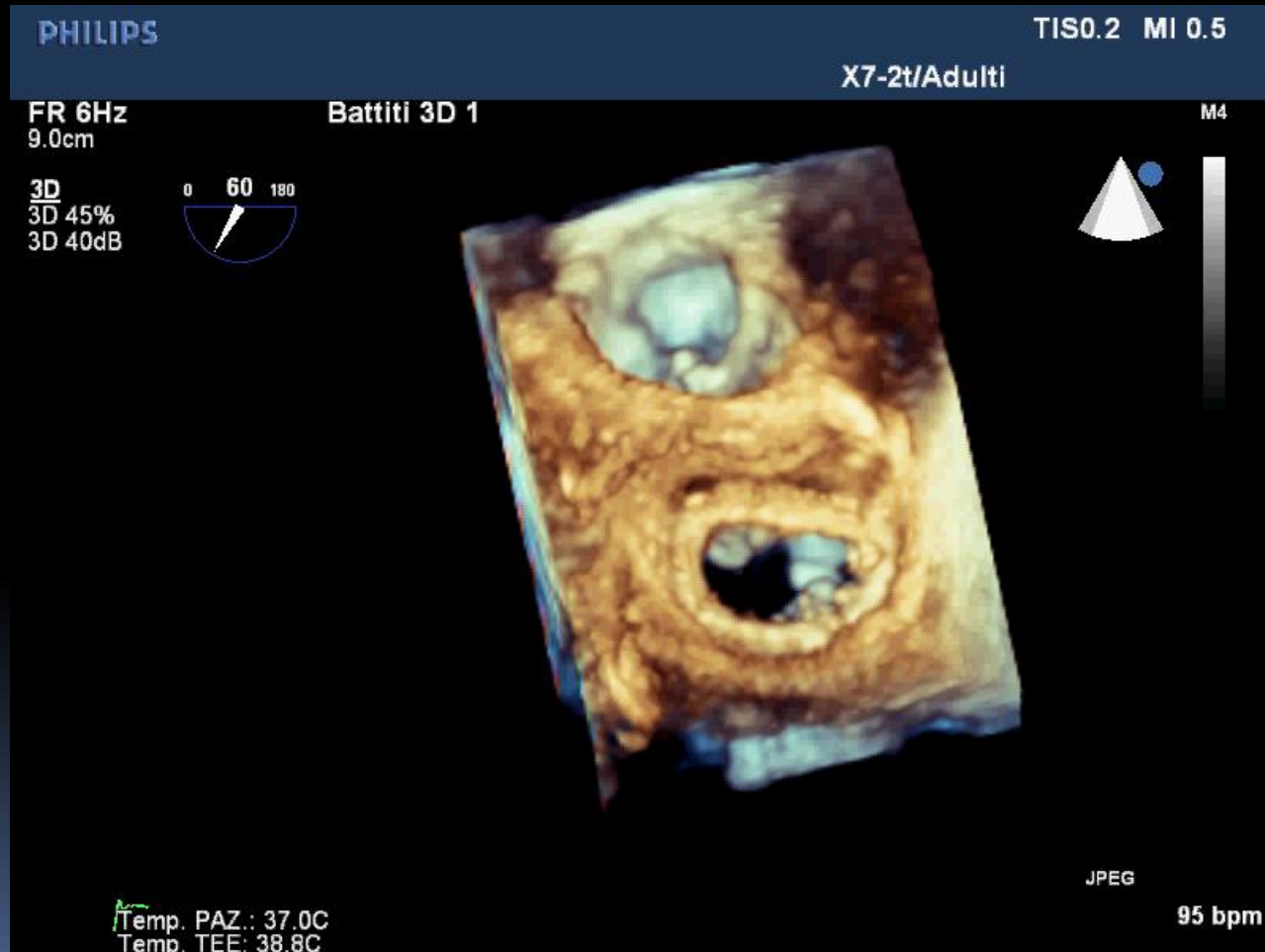


EI PLASTICA MITRALICA 2D

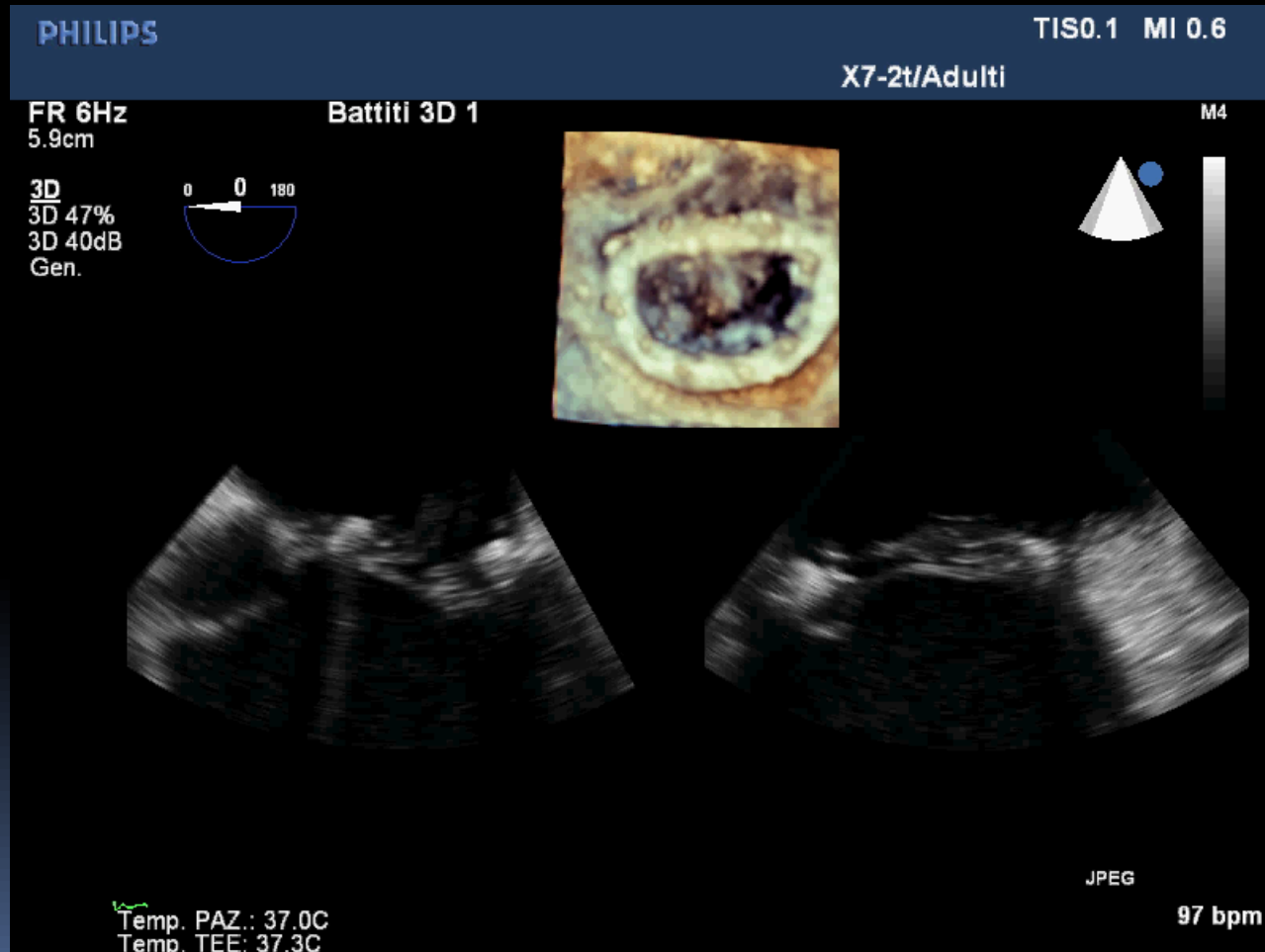
IPERPIRESSIA DA 2 MESI, ECOTTE (2) NEGATIVI PER EI



EI PLASTICA MITRALE 3D



EI PLASTICA MITRALICA 3D



EI PLASTICA MITRALE 2D

IPERPIRESSIA DA 50 GG, ECO TTE NEGATIVO PER EI

PHILIPS

13/05/2011 09:21:43 TIS0.

PHILIPS

09/05/2011 12:45:12 TIS0.4 MI 0.

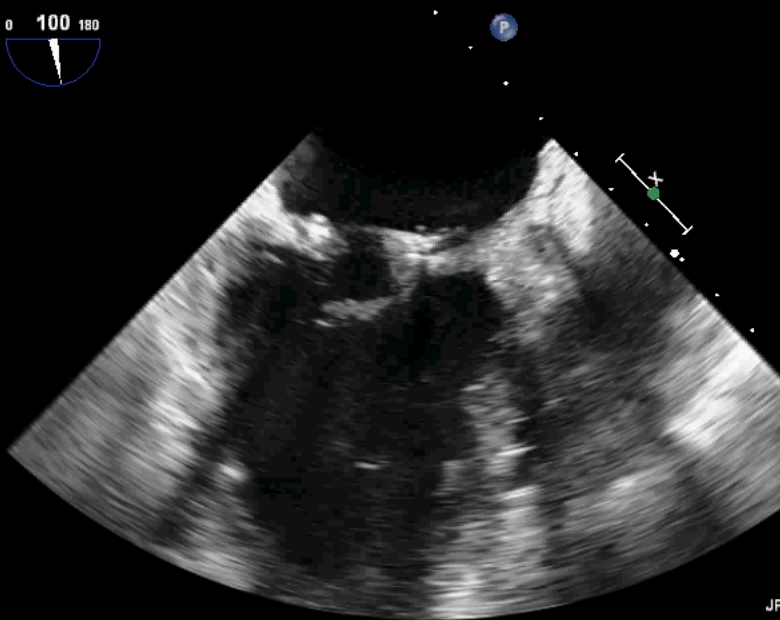
02392120110508

CX7-2t/Adulti

CX7-2t/Adulti

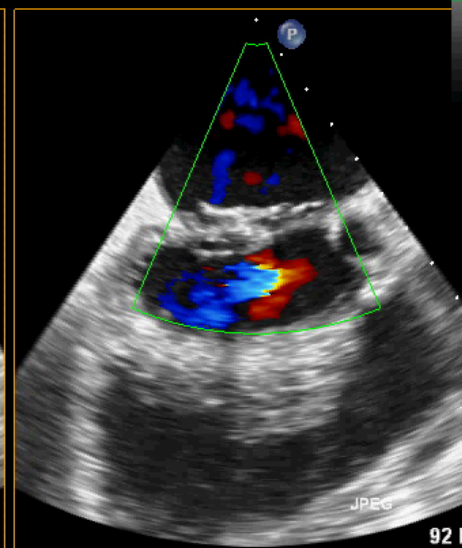
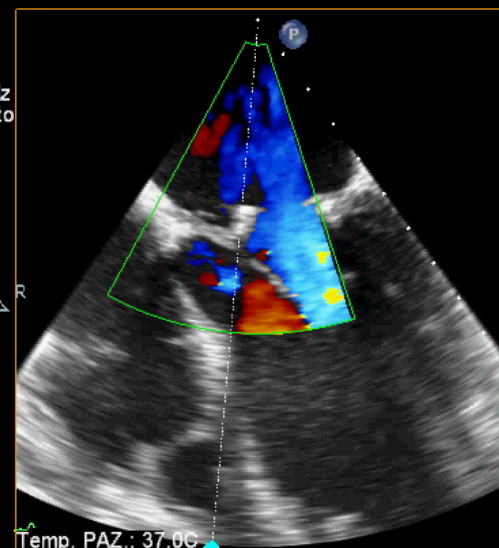
R 52Hz
cm

FR 9Hz
12cm



xPlane
76%
76%
50dB
P Off
Gen

CF
59%
4.4MHz
WF Alto
Med.



Temp. PAZ.: 37.0C
Temp. TEE: 38.8C

Temp. PAZ.: 37.0C
Temp. TEE: 38.1C



EI PLASTICA MITRALE 3D

PHILIPS

09/05/2011

12:46:12

TISO.3

MI 0.5

CX7-2t/Adulti

FR 10Hz
6.5cm

M4

Live 3D
3D 23%
3D 38dB
Gen



JPEG

Temp. PAZ.: 37.0C
Temp. TEE: 39.3C

97 bpm



EI PLASTICA MITRALE 3D

PHILIPS

13/05/2011 09:23:43

TISO.3 PHILIPS

13/05/2011 09:22:33 TISO.3

CX7-2t/Adultl

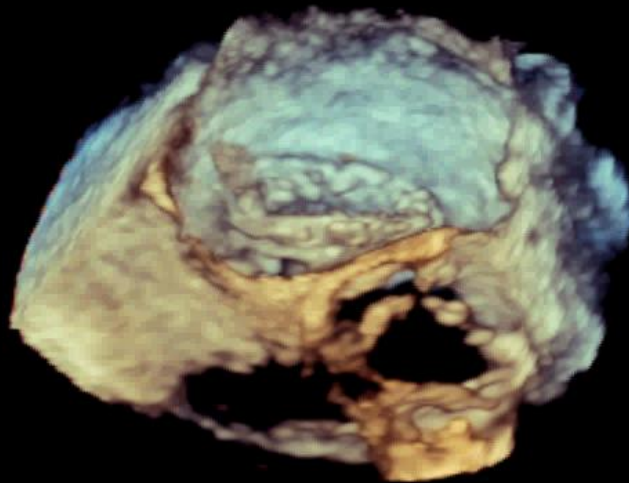
CX7-2t/Adultl

9Hz
cm

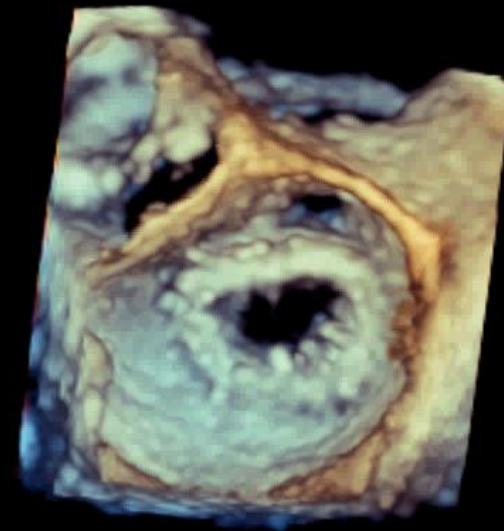
FR 9Hz
7.6cm

3D
1%
40dB

Live 3D
3D 0%
3D 40dB
Gen



JPE



JPEG

Temp. PAZ.: 37.0C
Temp. TEE: 39.7C

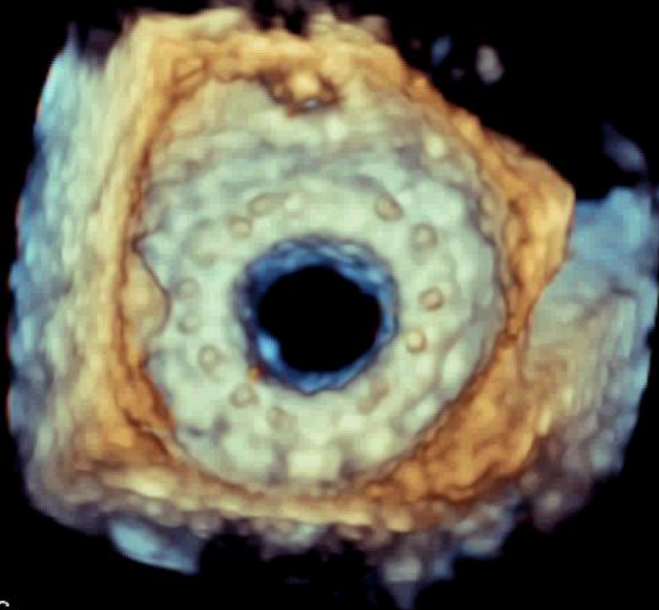
Temp. PAZ.: 37.0C
Temp. TEE: 39.4C



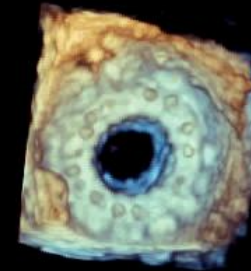
POSTOP BIOPROTESI MITRALICA

13/05/2011 12:56:16 TIS0.3 PHILIPS
CX7-2t/Adulti

13/05/2011 12:57:53 TIS0.3 MI 0.5
CX7-2t/Adulti



FR 9Hz
6.7cm
Live 3D
3D 13%
3D 40dB
Gen



JPE

JPEG

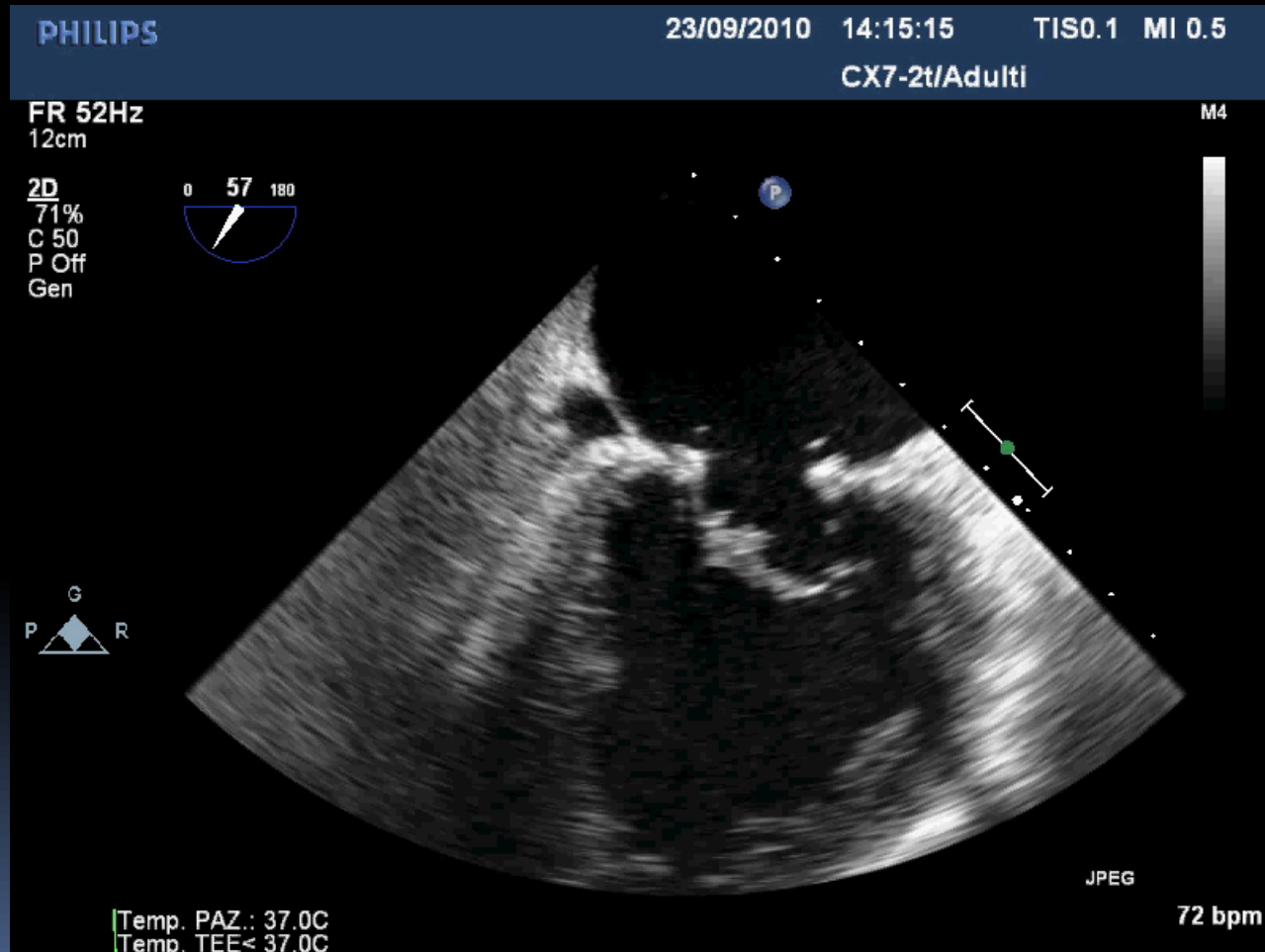
mp. PAZ.: 37.0C
mp. TEE: 40.2C

Temp. PAZ.: 37.0C
Temp. TEE: 39.7C

90



EI PLASTICA MITRALE



EI PLASTICA MITRALE

PHILIPS

23/09/2010

14:19:34

TISO.3 MI 0.5

CX7-2t/Adulti

FR 14Hz
7.7cm

M4

Live 3D
3D 37%
3D 33dB
Gen



Temp. PAZ.: 37.0C
Temp. TEE: 39.7C

JPEG

71 bpm

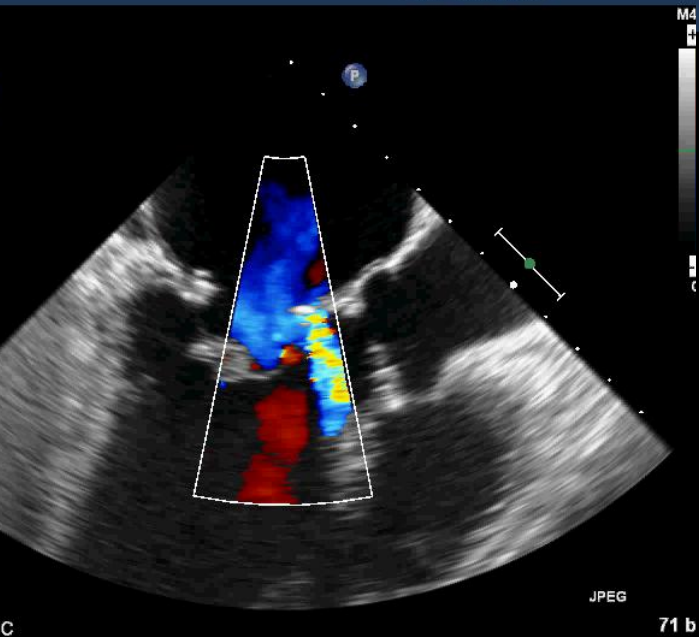


EI PLASTICA MITRALE/FISTOLA

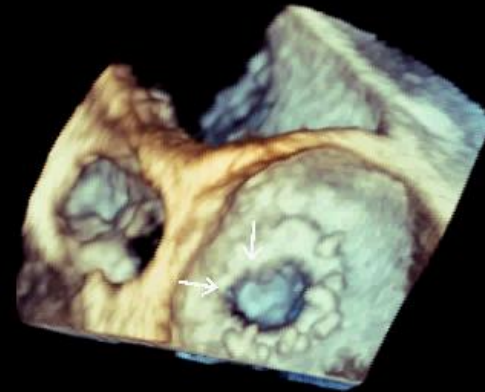
23/09/2010 14:25:22 TIS0.6 MI 0.4
CX7-2t/Adulti

PHILIPS

23/09/2010 14:26:37 TIS0.2 MI 0.5
CX7-2t/Adulti



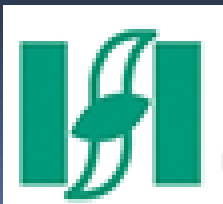
FR 12Hz
8.2cm
Live 3D
3D 29%
3D 40dB
Gen



M4



Temp. PAZ.: 37.0C
Temp. TEE: 39.9C



EI PROT MITR BIOL TEE 2D

IPERPIRESSIA 15 GG, AMOXICILL INEFFICACE

LIPS

PHILIPS

TIS0.7 MI 0.4

X7-2t/Adi

X7-2t/Adulti

1Hz

FR 23Hz
9.2cm

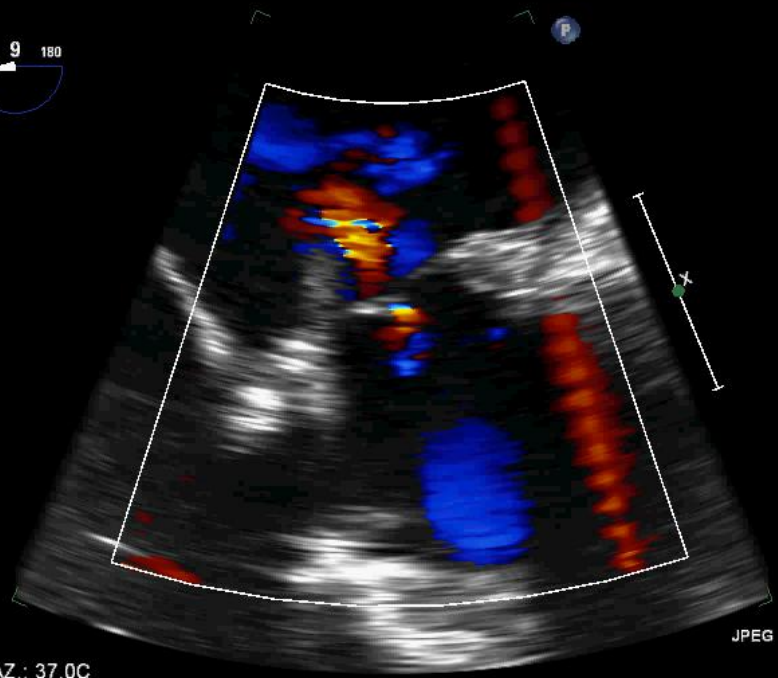
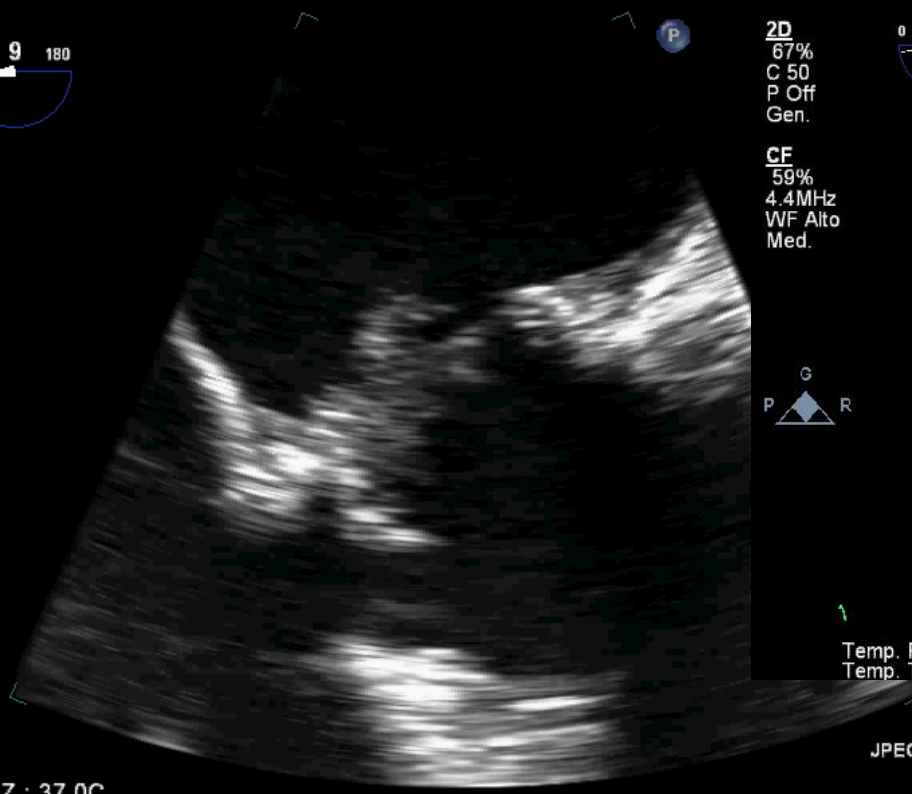
2D

67%
C 50
P Off
Gen.

CF

59%
4.4MHz
WF Alto
Med.

G
P R



Temp. PAZ : 37.0C
Temp. TEE : 37.2C

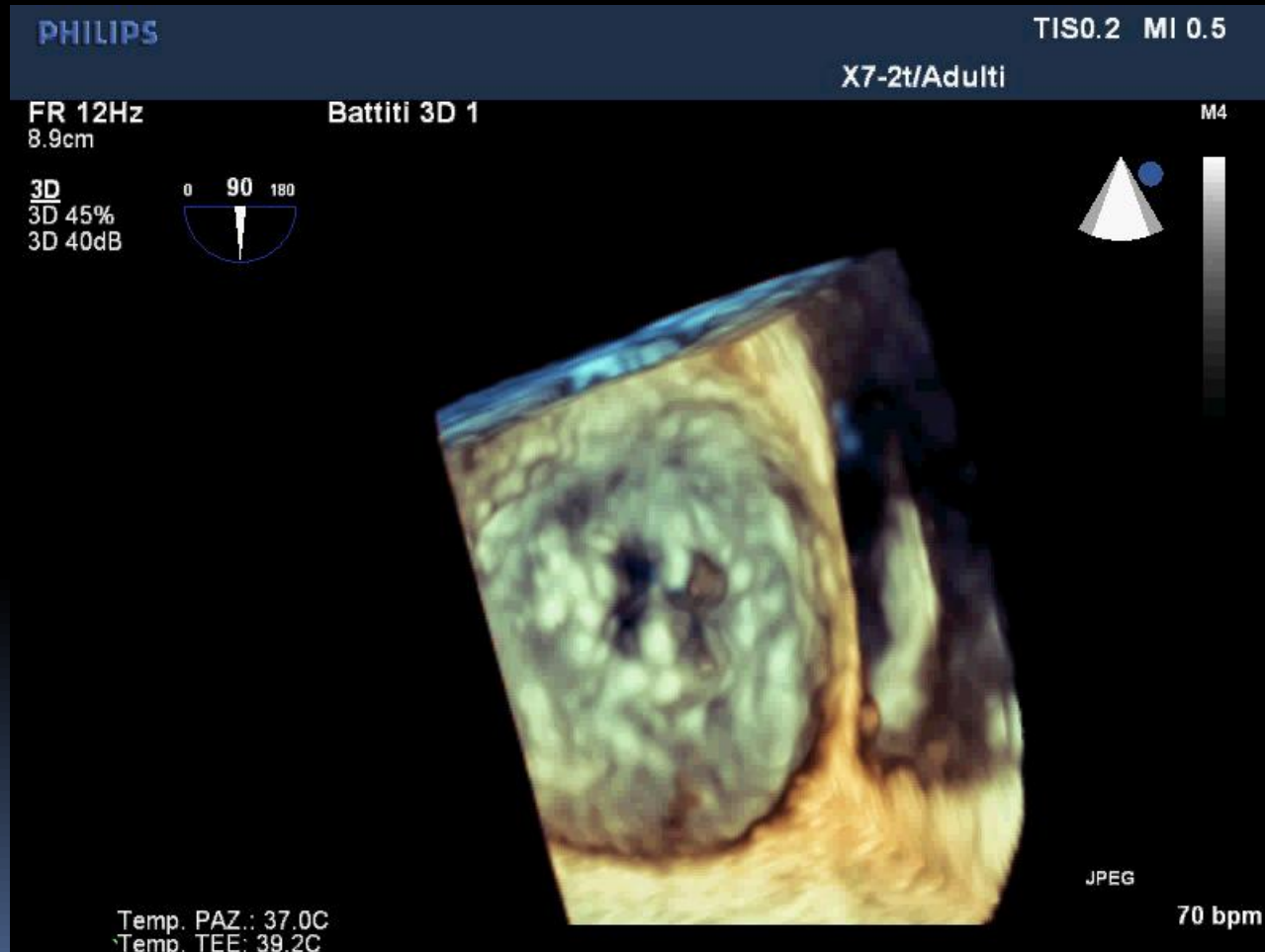
JPEG

70 bpm

Temp. PAZ : 37.0C
Temp. TEE < 37.0C

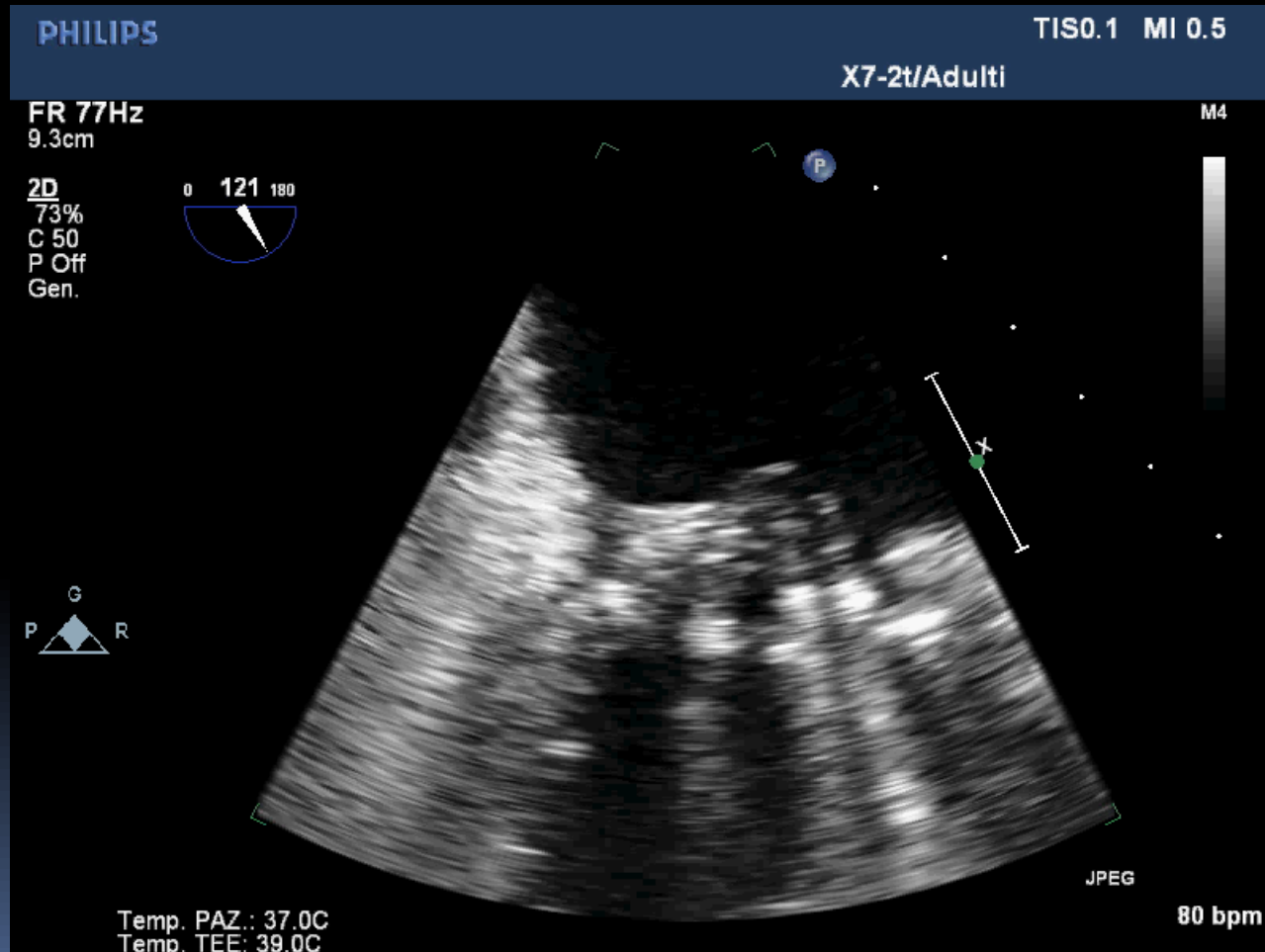


EI PROT MITR BIOL TEE 3D

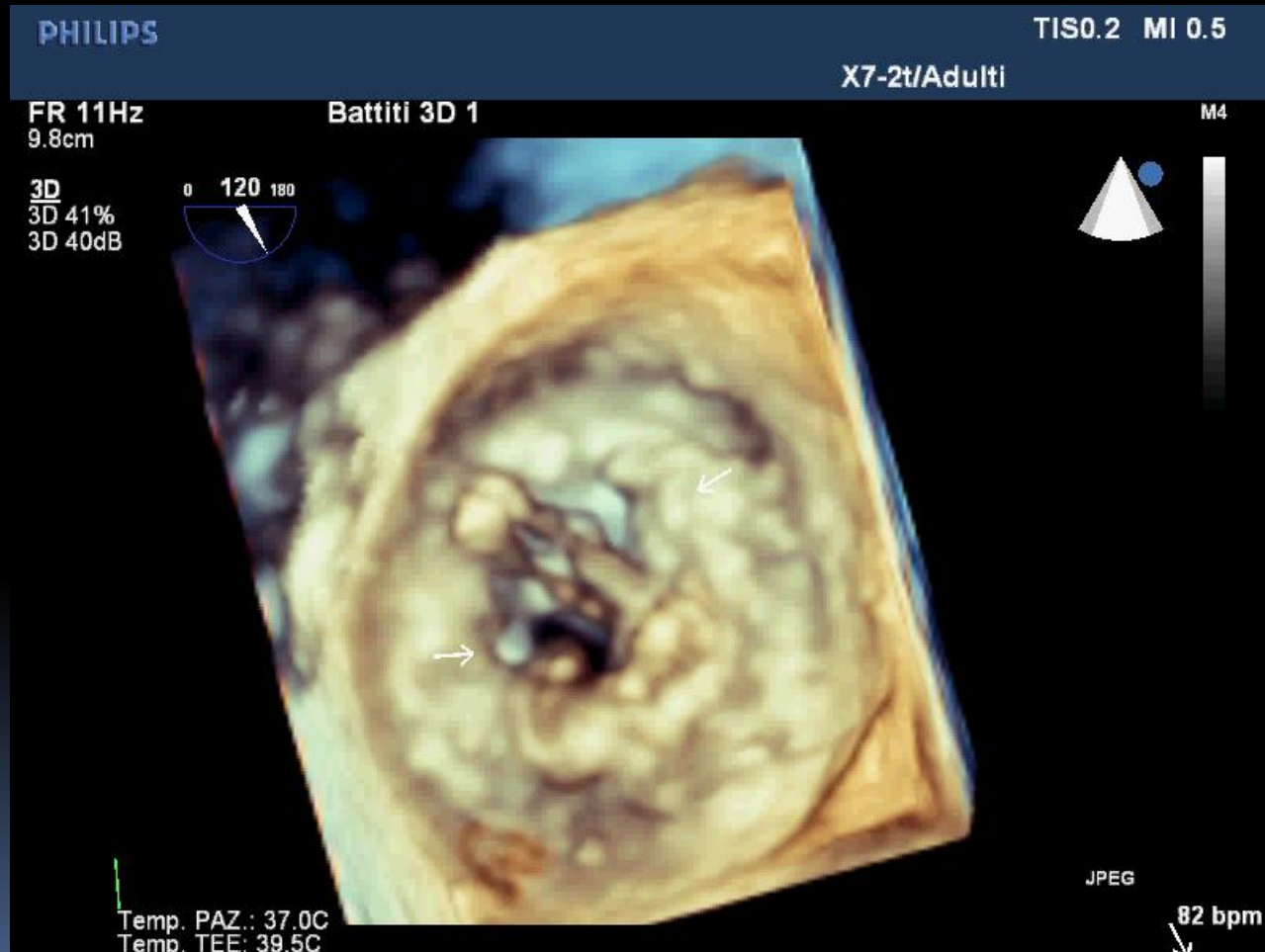


EI PROT MITR MECC TEE 2D

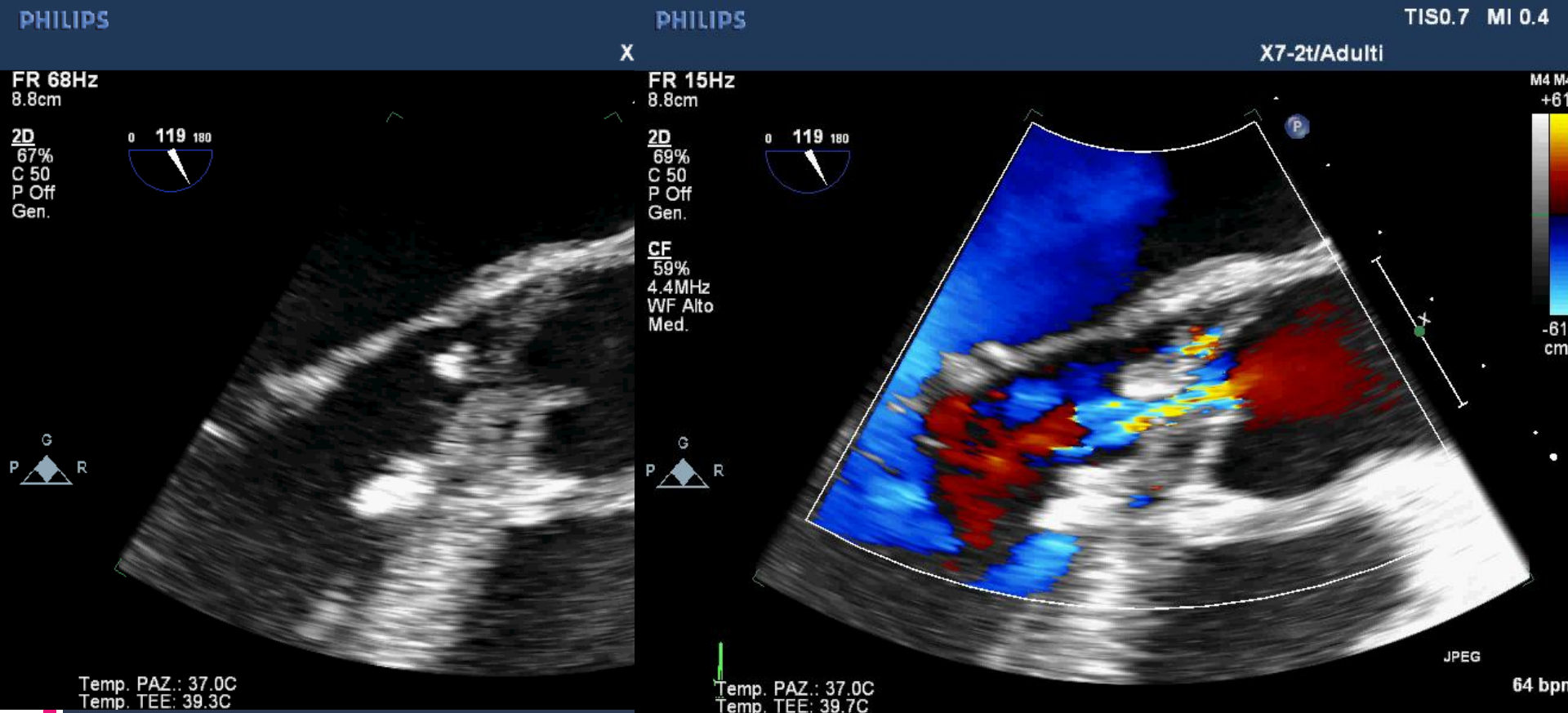
IPERPIRESSIA DA 10 GG



EI PROT MITR MECC TEE 3D



VALVOLA AO NATIVA EI



VALVOLA AO EI

PHILIPS TIS0.2 MI 0.5 X7-2t/Adulti

FR 6Hz 7.4cm Battiti 3D 1

3D 3D 43% 3D 34dB

0 0 180

M4

iti 3D 1

TIS0.2 MI 0.5 X7-2t/Adulti

JPEG 61 bpm

Temp. PAZ.: 37.0C
Temp. TEE: 39.6C

Temp. PAZ.: 37.0C
Temp. TEE: 39.4C

JPEG



VALVOLA AO EI

PS TI: PHILIPS TISO.2 M

X7-2t/Adulti

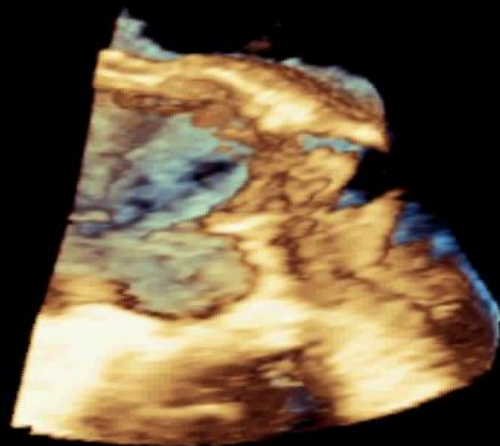
X7-2t/Adulti

Battiti 3D 1

Battiti 3D 1

FR 16Hz
7.9cm

3D
3D 47%
3D 40dB



Temp. PAZ.: 37.0C
Temp. TEE: 39.4C

Temp. PAZ.: 37.0C
Temp. TEE: 39.7C

JPEG



VALVOLA AO EI

PHILIPS

TIS0.2 MI 0.5

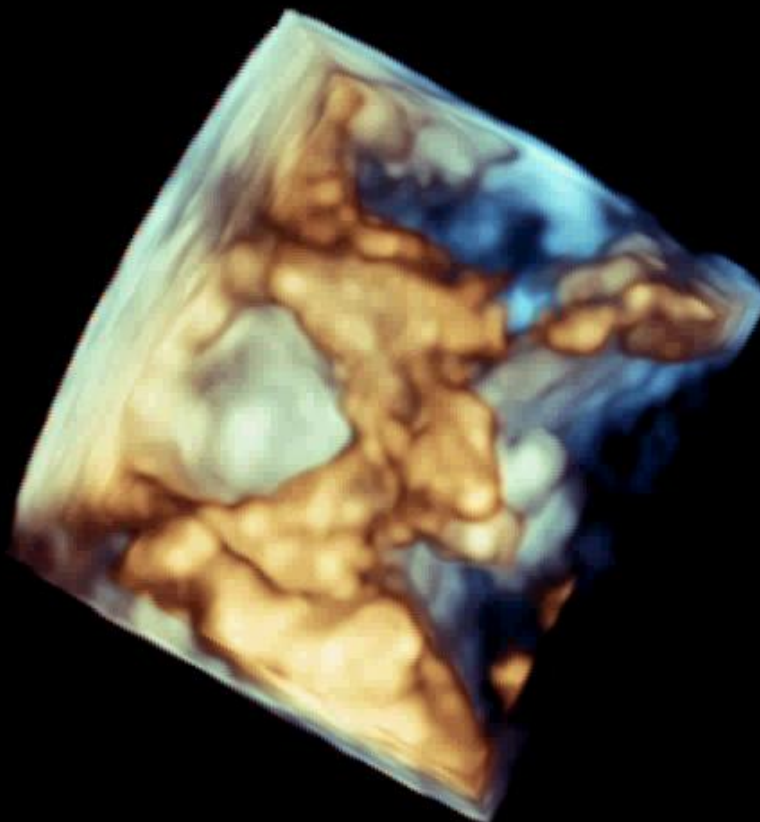
X7-2t/Adulti

FR 16Hz
7.9cm

Battiti 3D 1

M4

3D
3D 47%
3D 40dB



Temp. PAZ : 37.0C
Temp. TEE : 39.7C

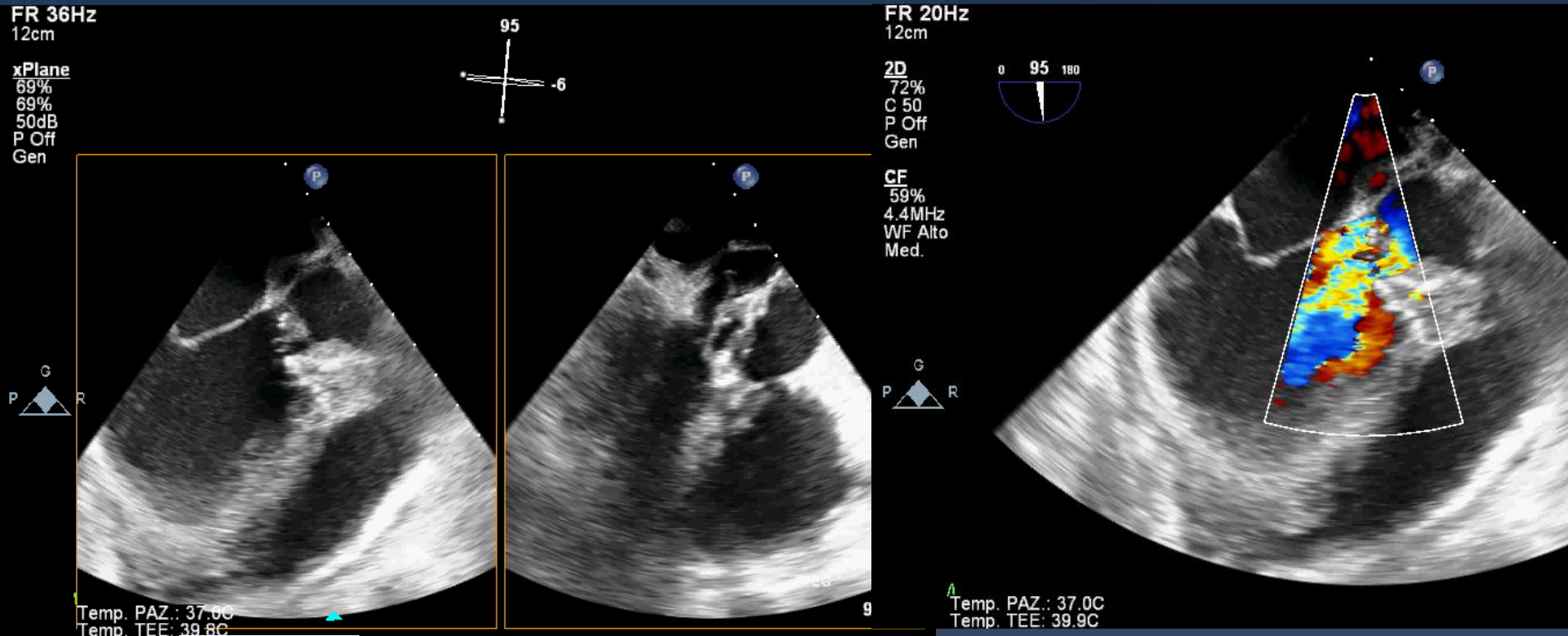
JPEG

61 bpm



EI VALV AORT BICUSPIDE

PHILIPS 42060920130409 09/04/2013 09:12:43 TIS0.1 MI PHILIPS 42060920130409 09/04/2013 09:13:15 X7-2t/Adulti X7-2t/Ad



TEE 3D

PHILIPS

09/04/2013

09:20:22

TIS0.2 MI 0.5

X7-2t/Adulti

FR 10Hz
9.1cm

M4

Live 3D
3D 16%
3D 40dB
Gen



Temp. PAZ.: 37.0C
Temp. TEE: 40.3C

JPEG

90 bpm



TEE 2D e 3D

PHILIPS

09/04/2013

09:20:22

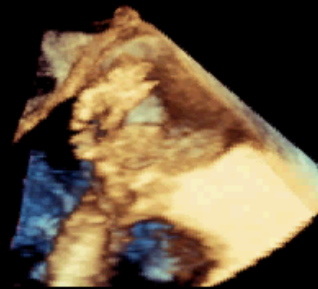
TIS0.2 MI 0.5

X7-2t/Adulti

FR 10Hz
9.1cm

M4

Live 3D
3D 16%
3D 40dB
Gen

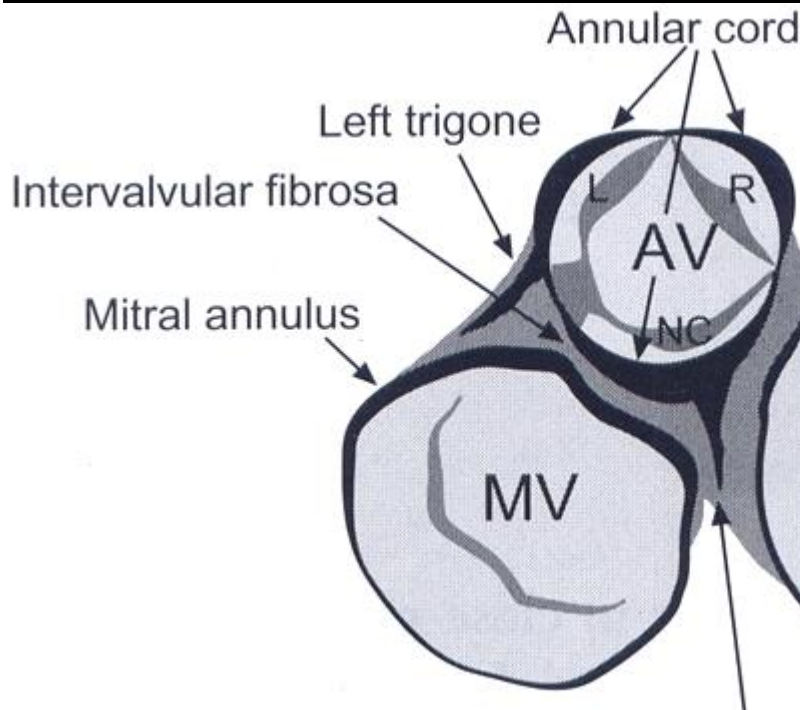


Temp. PAZ : 37.0C
Temp. TEE : 40.3C

90 bpm



EI PROT AORTICA: FIBROSA! TTE NON SUFFICIENTE



RECIDIVA EI SU BIOP AORT

IGIENE ORALE!

PHILIPS

17/02/2014 12:38:54

TISO PHILIPS 23400920140217

3/7/2014 11:18:04 PM

23400920140217

X7-2t/Adulti

GARELLI, EMANUELE
23400920140217

2014/02/17 09:44:43AM TIS
AZ OSP SACCO MI CCH X7-2t/Adulti

FR 35Hz
13cm

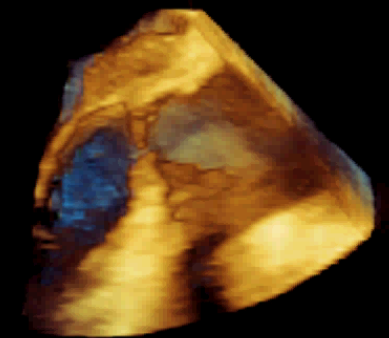
2D
68%
C 50
P Off
Gen



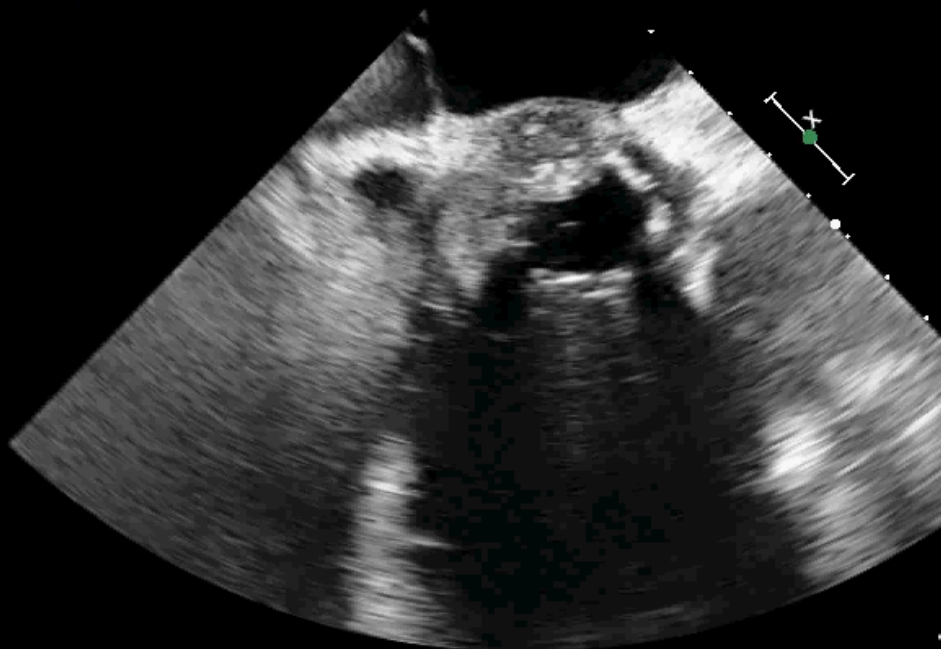
VR 14Hz 0 145 180
6cm



Live 3D
3D 35%
3D 38dB



G
P R



3D↑



JPEG

85 bpm

Temp. PAZ.: 37.0C
Temp. TEE: 39.0C



RECIDIVA EI TERAPIA ANTIBIOTICA INEFFICACE

PHILIPS

17/02/2014 09:44:20

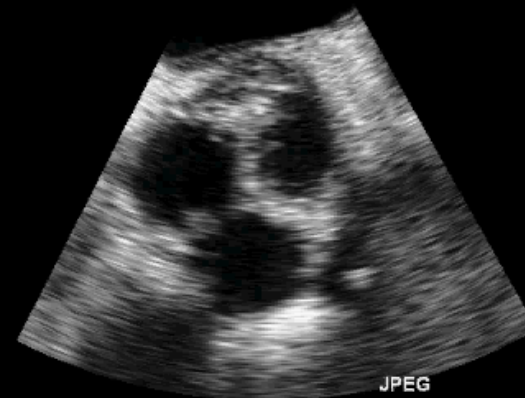
TISO.2 MI 0.5

X7-2t/Adulti

FR 14Hz
8.6cm

M4

Live 3D
3D 37%
3D 40dB
Gen



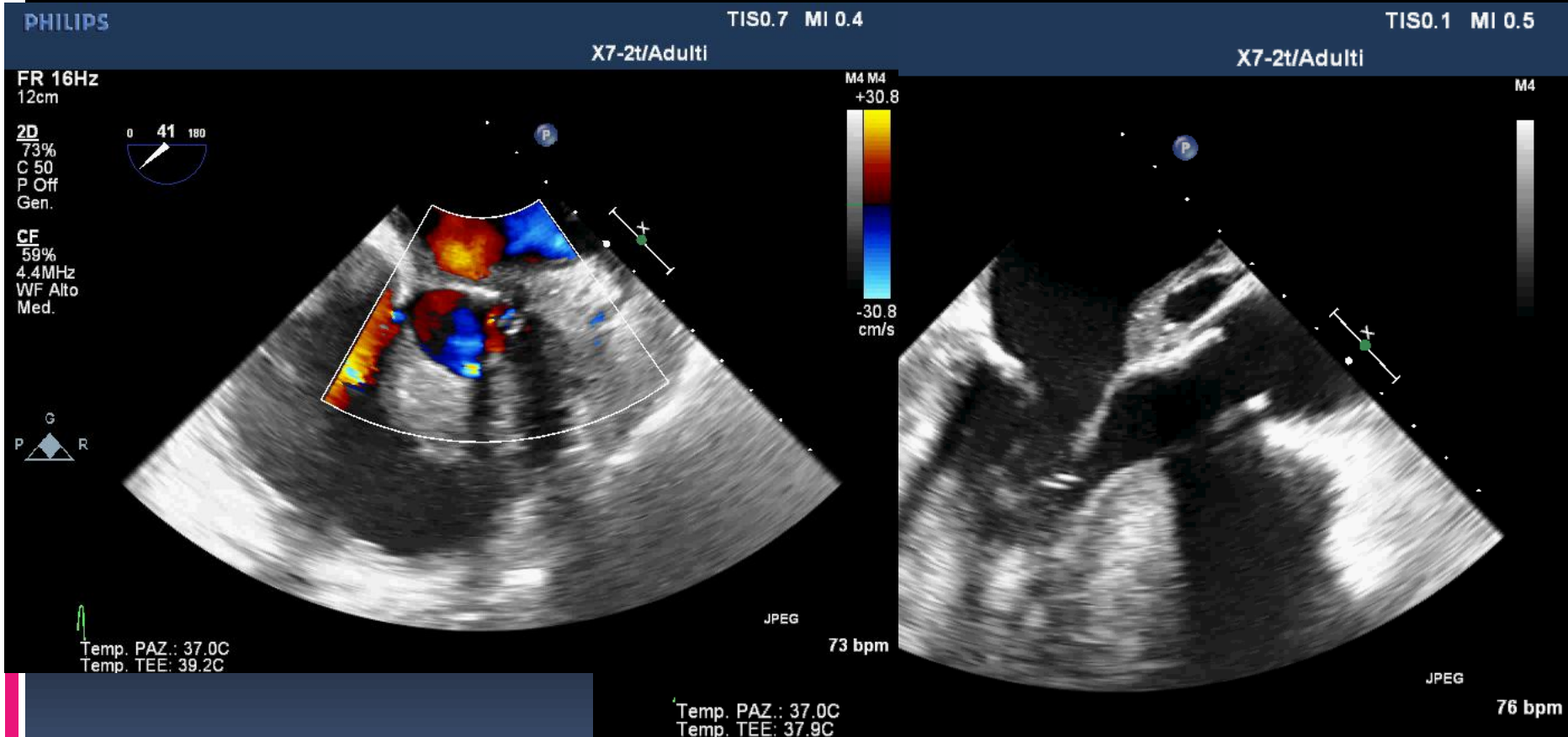
JPEG

Temp. PAZ.: 37.0C
Temp. TEE: 39.2C

84 bpm



TEE 2D EI + FRATT GIUNZIONE

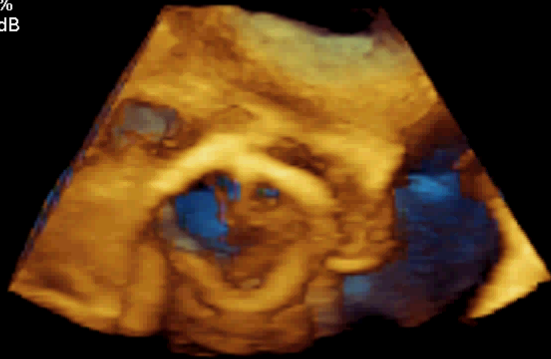


TEE 3D

PHILIPS

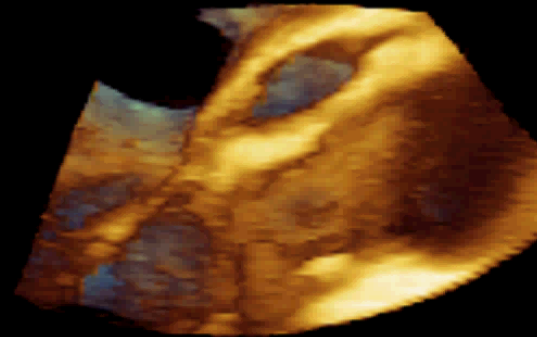
EXT11784 OSP. L.SACCO - ECOZAVANTI 29/04/2011 10:04:53 AM IS 0.2 MI 0.5

VR 10Hz 135 180
6cm
Full Volume
3D 23%
3D 39dB

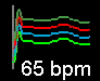


11784 OSP. L.SACCO - ECOZAVANTI 30/04/2011 10:04:29 AM IS 0.2 MI 0.5

9Hz 135 180
Volume
34%
39dB



3D↑



CASO ANALOGO TEE 2/3 D

PHILIPS

02150920110907

07/09/2011 09:22:36

TISO.3 MI 0.5

CX7-2t/Adulti

FR 10Hz
7.2cm

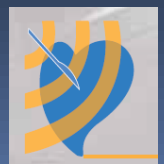
M4

Live 3D
3D 26%
3D 40dB
Gen



Temp. PAZ : 37.0C
Temp. TEE : 39.5C

78 bpm



NECESSITA' ECO TEE PER DIAGNOSI

PHILIPS

IRI

07/09/2011

09:29:12

TIS0.2 MI 0.5

02150920110907

CX7-2t/Adultl

FR 9Hz
8.0cm

M4

A
07/09/2011 09:29:12
02150920110907

07/09/2011 09:29:12

Live 3D
3D 9%
3D 40dB
Gen



Temp. PAZ.: 37.0C
Temp. TEE: 39.0C

Temp. PAZ.: 37.0C
Temp. TEE: 38.7C

JPEG

77 bpm



TEE 2D EI FISTOLA

11/01/2012 00:34:17 TIS0.1 N PHILIPS
CX7-2t/Adulti

11/01/2012 00:35:44 TIS0.8 M
CX7-2t/Adulti

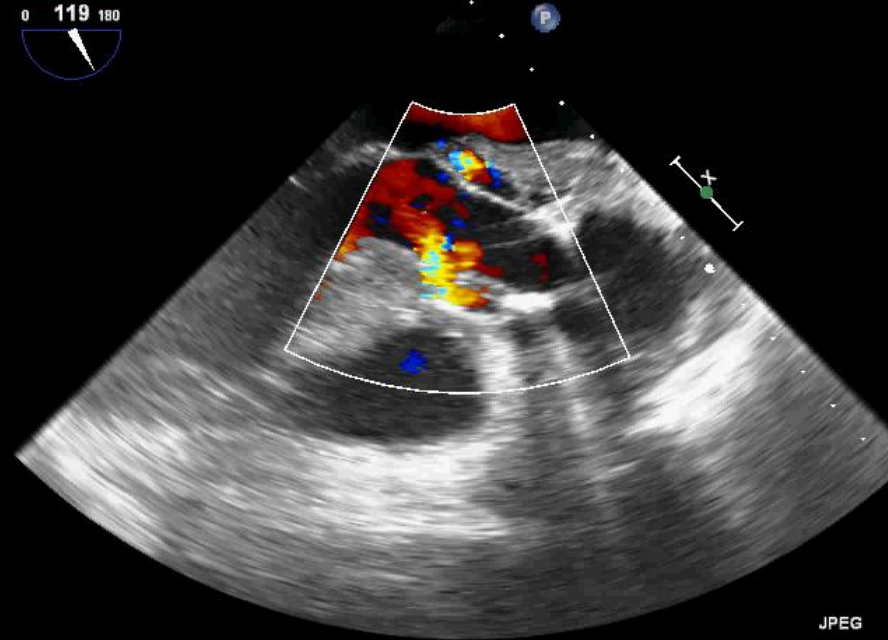
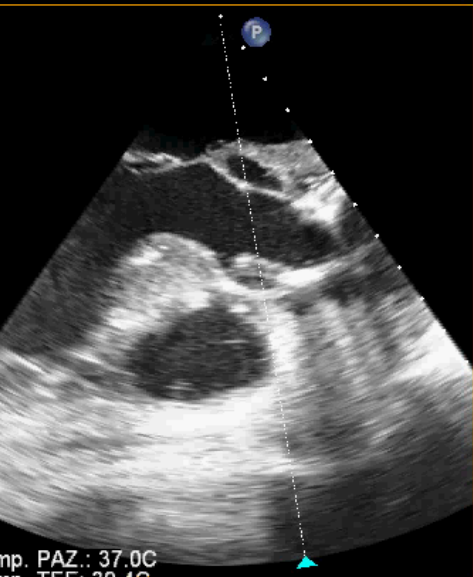


FR 16Hz
14cm

2D
82%
C 50
P Off
Gen

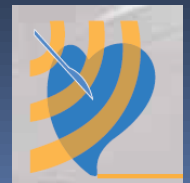


CF
59%
4.4MHz
WF Alto
Med.



Temp. PAZ.: 37.0C
Temp. TEE: 39.4C

Temp. PAZ.: 37.0C
Temp. TEE: 39.5C



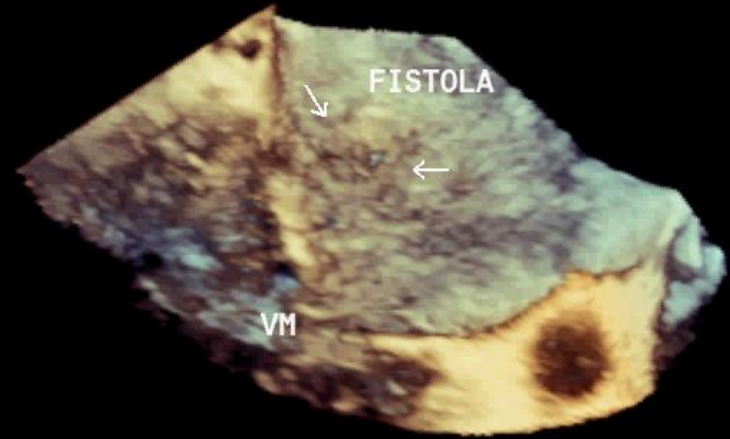
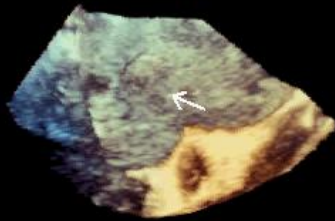
TEE 3D FISTOLA

11/01/2012 00:37:50 TISO.3 PHILIPS
CX7-2t/Adultl

11/01/2012 00:37:50 TISO.3 MI 0
CX7-2t/Adultl



FR 8Hz
7.6cm
Live 3D
3D 0%
3D 40dB
Gen



PAZ.: 37.0C
TEE: 39.3C

Temp. PAZ.: 37.0C
Temp. TEE: 39.3C

JPEG

61



TEE 3D

PHILIPS

11/01/2012 00:37:50
CX7-2t/Adl

PHILIPS

11/01/2012 00:38:16
CX7-2t/Adulti

TIS0.3 M

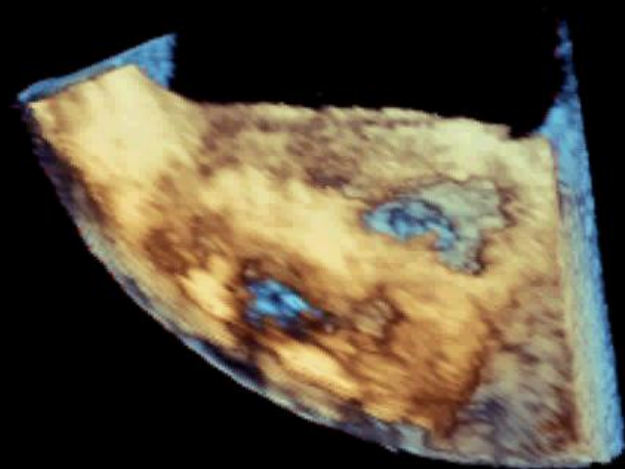
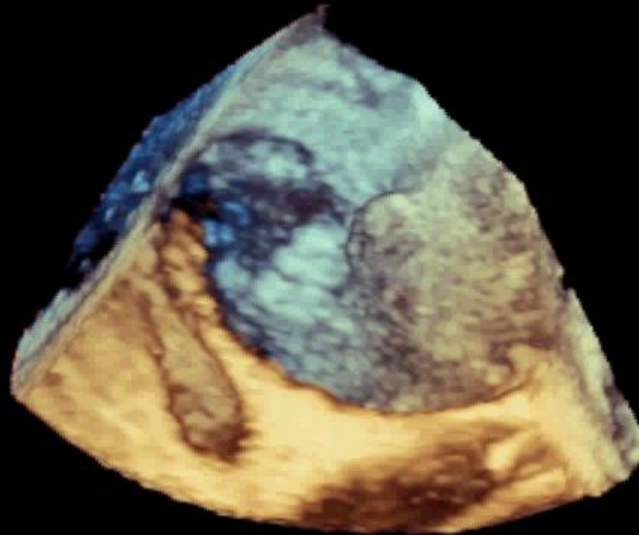
Hz

FR 8Hz
7.6cm

D
6
dB



Live 3D
3D 0%
3D 40dB
Gen



JPEG

Temp. PAZ : 37.0C
Temp. TEE : 39.3C

Temp. PAZ : 37.0C
Temp. TEE : 39.8C



RISULTATO POSTOPERATORIO

PHILIPS

11/01/2012 05:57:03 TISO.1 MI 0.5

CX7-2t/Adulti

11/01/2012 05:56:27 TISO.7 MI 0.4

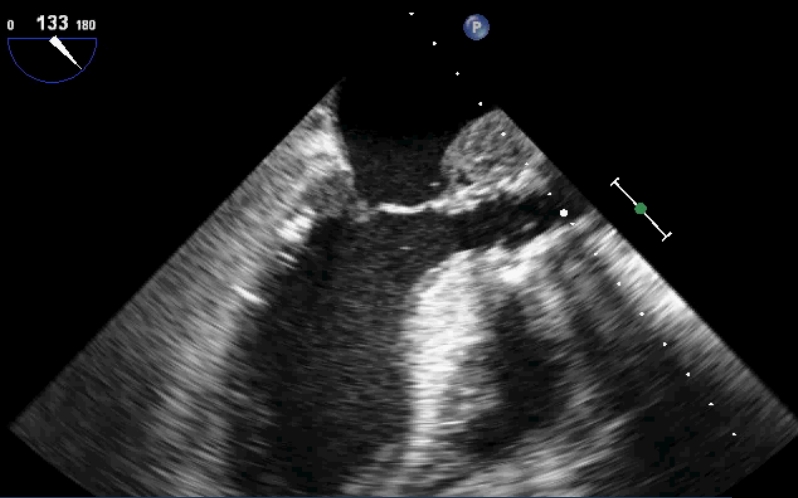
CX7-2t/Adulti

FR 52Hz
15cm

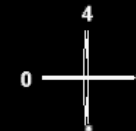
2D
73%
C 50
P Off
Gen



G
P R



M4

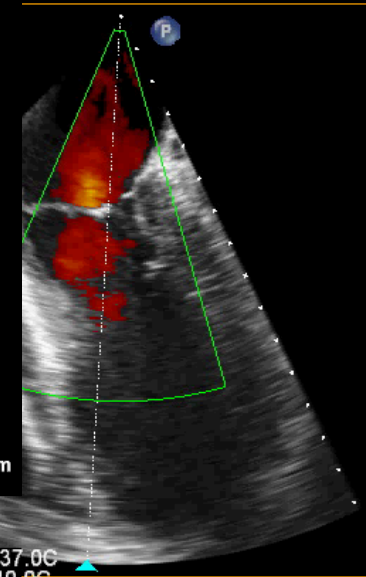


M4 M4

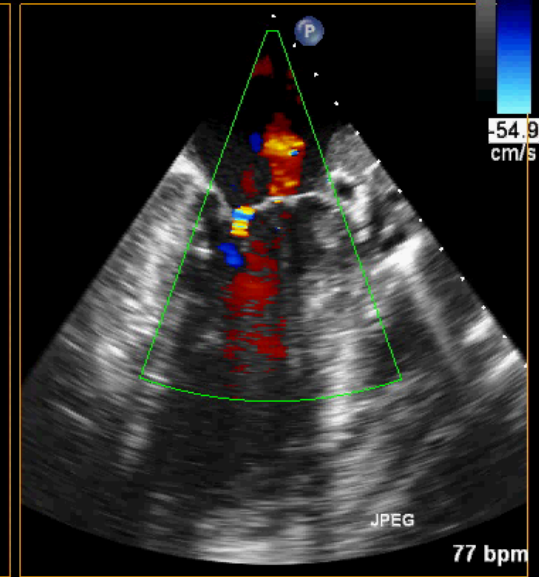
+54.9



-54.9
cm/s



79 bpm



77 bpm

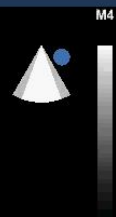
PHILIPS

11/01/2012 05:53:05 TISO.2 MI 0.5

CX7-2t/Adulti

FR 11Hz
8.3cm

Live 3D
3D 28%
3D 40dB
Gen



M4

PEG

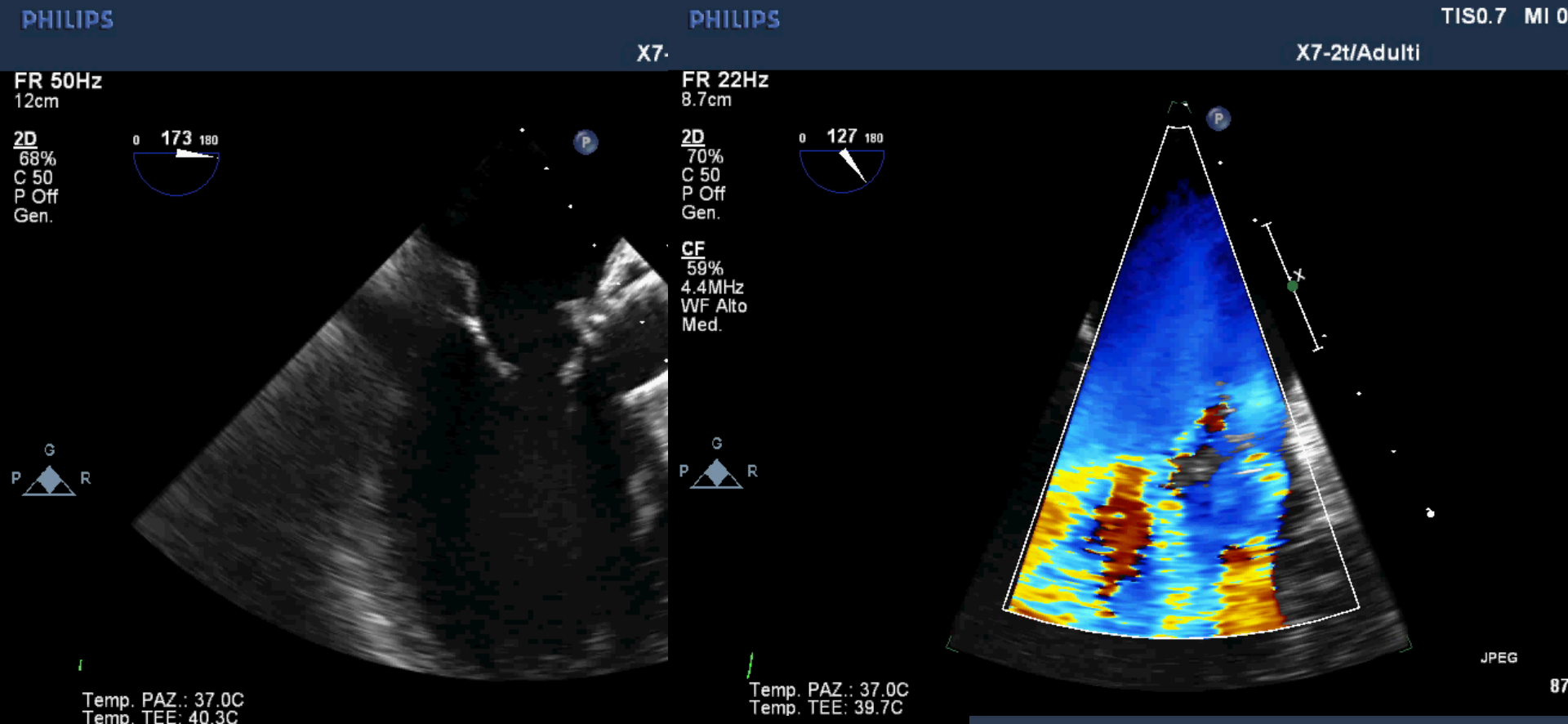
emp. PAZ.: 37.0C
emp. TEE: 40.0C



JPEG

CORE VALVE EI

cv impiantata da 14 mesi; iperpiressia da 2 mesi, trasf
M.Infettive (Eco TTE neg per EI)



CORE VALVE EI

PHILIPS TISO.1 MI 0.6

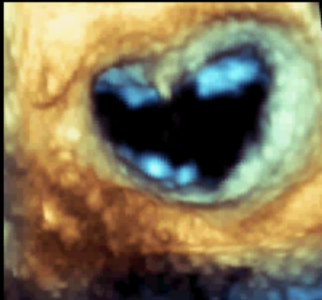
X7-2t/Adulti

FR 7Hz
6.8cm

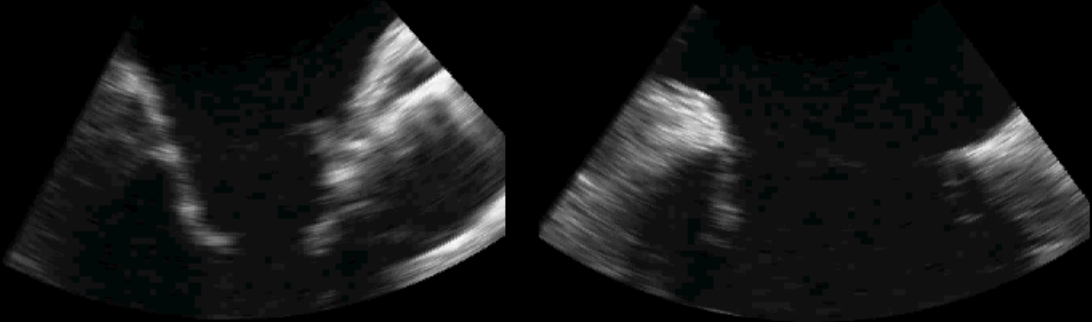
Battiti 3D 1

3D
3D 47%
3D 40dB
Gen.

0 175 180



M4



Temp. PAZ.: 37.0C
Temp. TEE: 39.5C

JPEG

86 bpm



CORE VALVE EI

PHILIPS

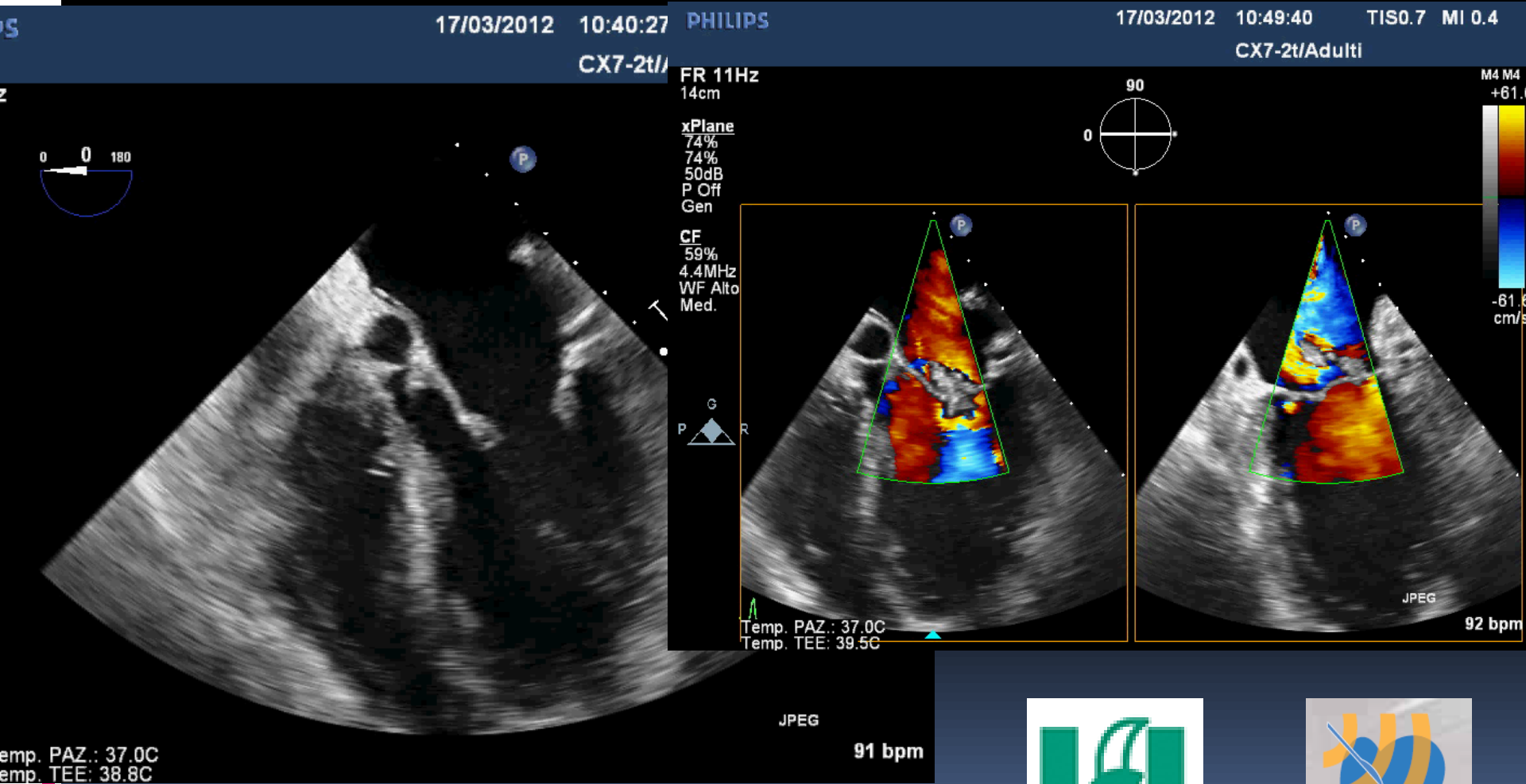
2014/01/07 12:00:37 PM MIS 0.1 MI 0.6
EX113511 OSP. L.SACCO - ECG 27/10/14

VR 7Hz 140 180
4cm
Full Volume
3D 32%
3D 39dB



TRIS !

IRC IN TRATTAMENTO DIALITICO, IPERPIRESSIA DA MESI.TTE PAT.



TRIS !

PHILIPS

17/03/2012 10:41:35 TIS0.2 MI 0.5
CX7-2t/Adulti

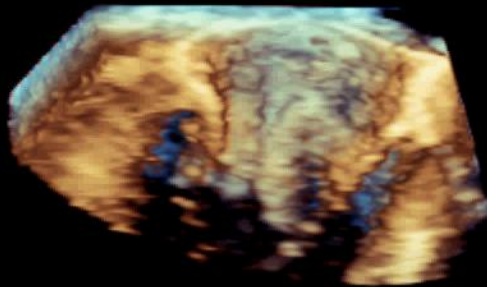
17/03/2012 10:47:47 TIS0.2 MI 0.5
CX7-2t/Adulti

FR 11Hz
9.0cm

Live 3D
3D 30%
3D 40dB
Gen



M4

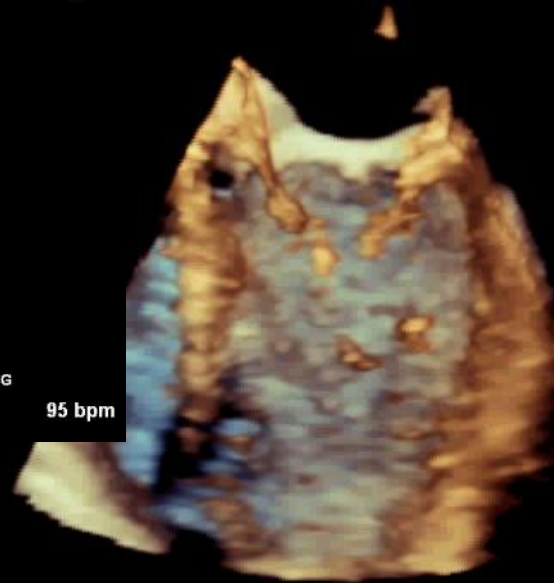


JPEG

95 bpm

Temp. PAZ.: 37.0C
Temp. TEE: 39.5C

M4



JPEG

52 bpm

Temp. PAZ.: 37.0C
Temp. TEE: 39.3C



TRIS !

PHILIPS

17/03/2012

10:48:32

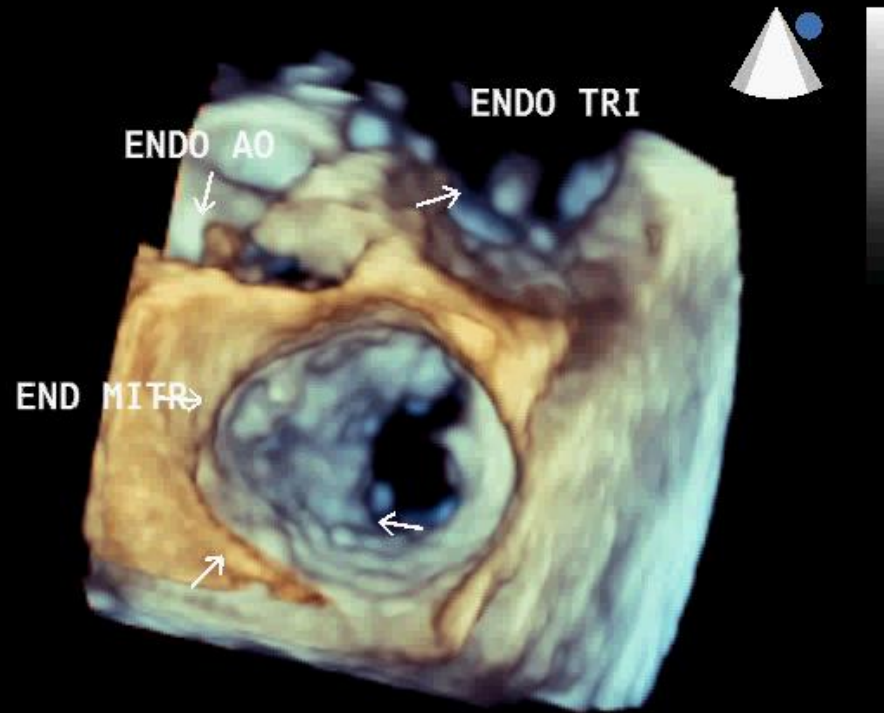
TIS0.2 MI 0.5

CX7-2t/Adulti

FR 11Hz
9.2cm

M4

Live 3D
3D 11%
3D 40dB
Gen



Temp. PAZ : 37.0C
Temp. TE : 39.2C

JPEG

107 bpm



TRIS !

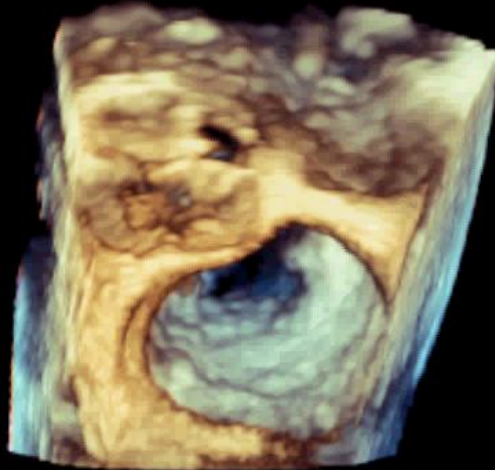
PHILIPS

17/03/2012 10:41:35 TISC PHILIPS
CX7-2t/Adultl

17/03/2012 10:49:01 TIS0.2 MI 0
CX7-2t/Adultl

11Hz
cm

3D
32%
40dB



FR 8Hz
10cm

Live 3D
3D 10%
3D 40dB
Gen



Temp. PAZ.: 37.0C
Temp. TEE: 39.5C

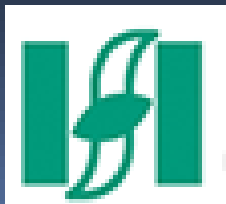
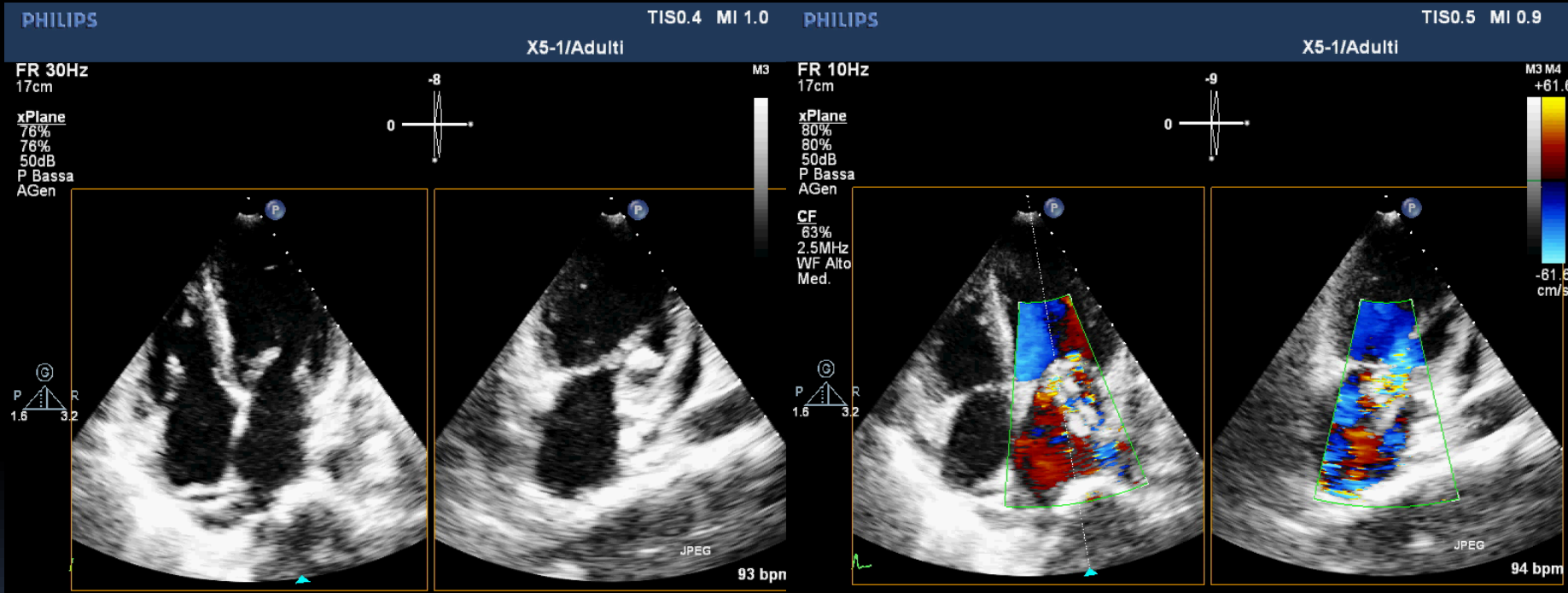
Temp. PAZ.: 37.0C
Temp. TEE: 39.4C

JPEG



MAXI! TTE 2D

DONNA CINESE, PLURIMI ACCESSI IN PS. TERAPIA: PARACETAMOLO



MAXI! TTE 3D

PHILIPS

TIS0.7 | PHILIPS

TIS0.7 MI 1.2

X5-1/Adulti

X5-1/Adulti

FR 20Hz
10cm

Battiti 3D 1

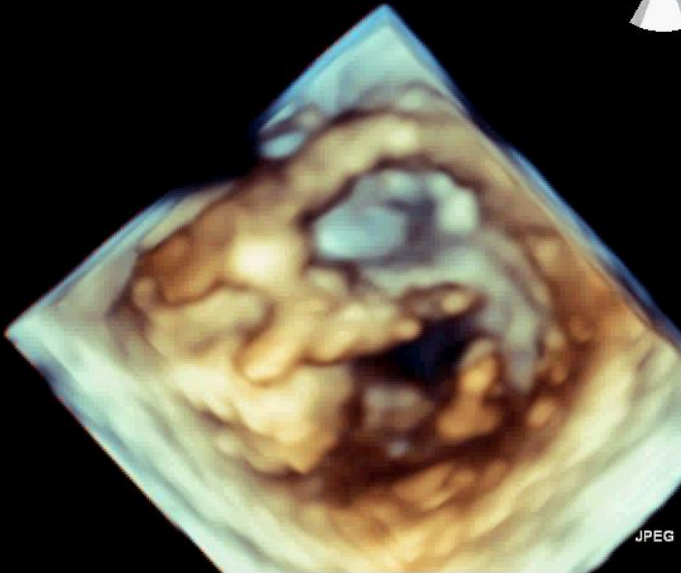
FR 20Hz
10cm

Battiti 3D 1

M3

3D
3D 45%
3D 60dB

3D
3D 45%
3D 60dB



JPEG

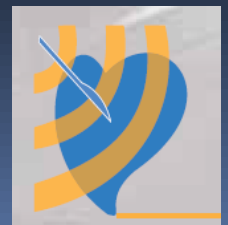
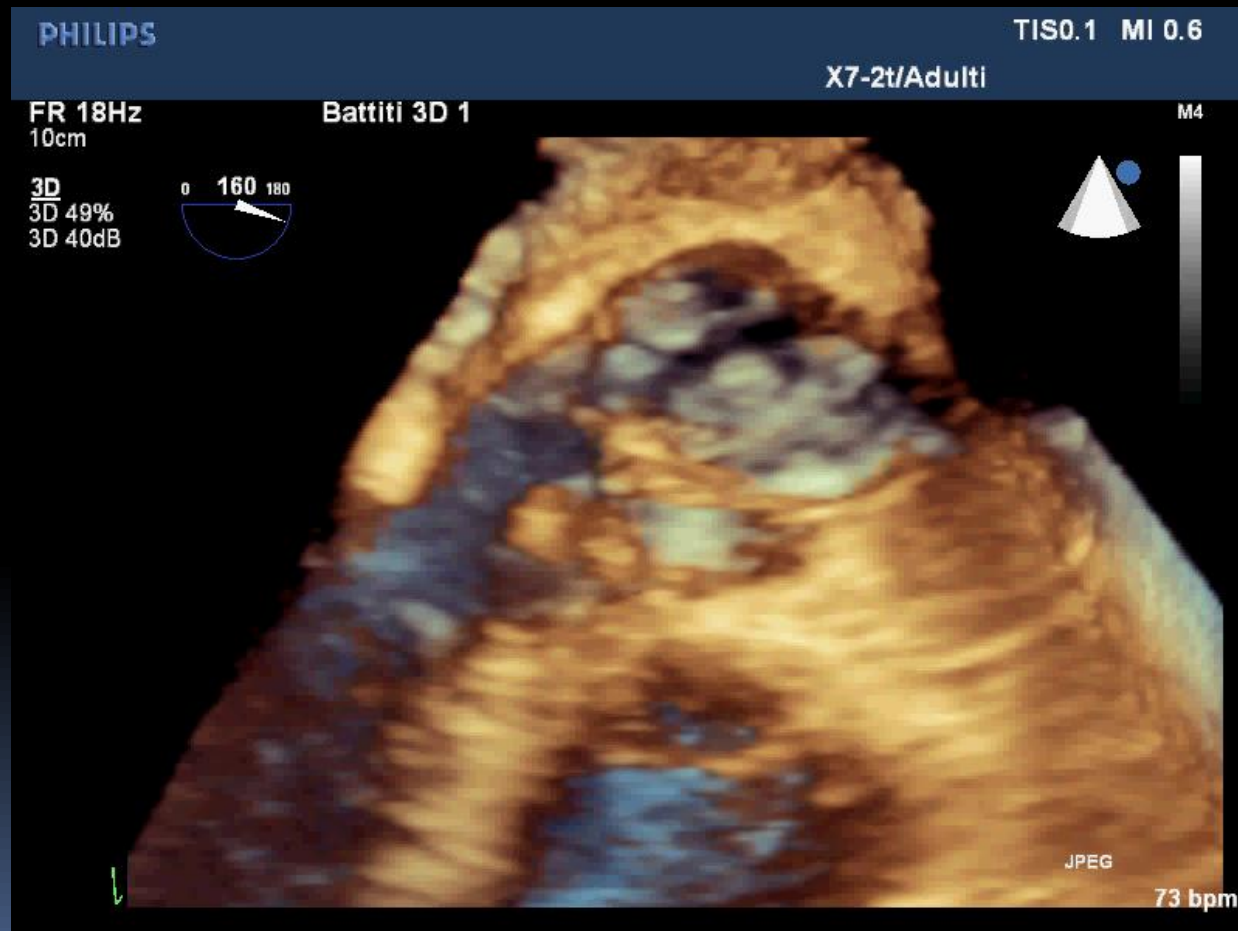


JPEG

94 bpm



FORMAZIONE V AORTA TEE 3D



INFEZIONE CATETERE ICD TTE

PHILIPS

TIS0.7 MI 1.3

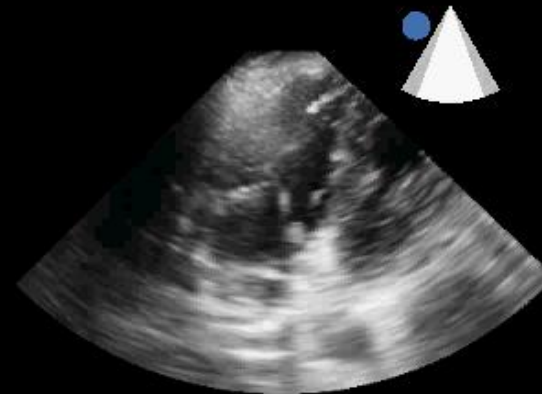
X5-1/Adulti

FR 16Hz
17cm

Battiti 3D 4Q

M3

3D
3D 54%
3D 40dB
AGen



JPEG

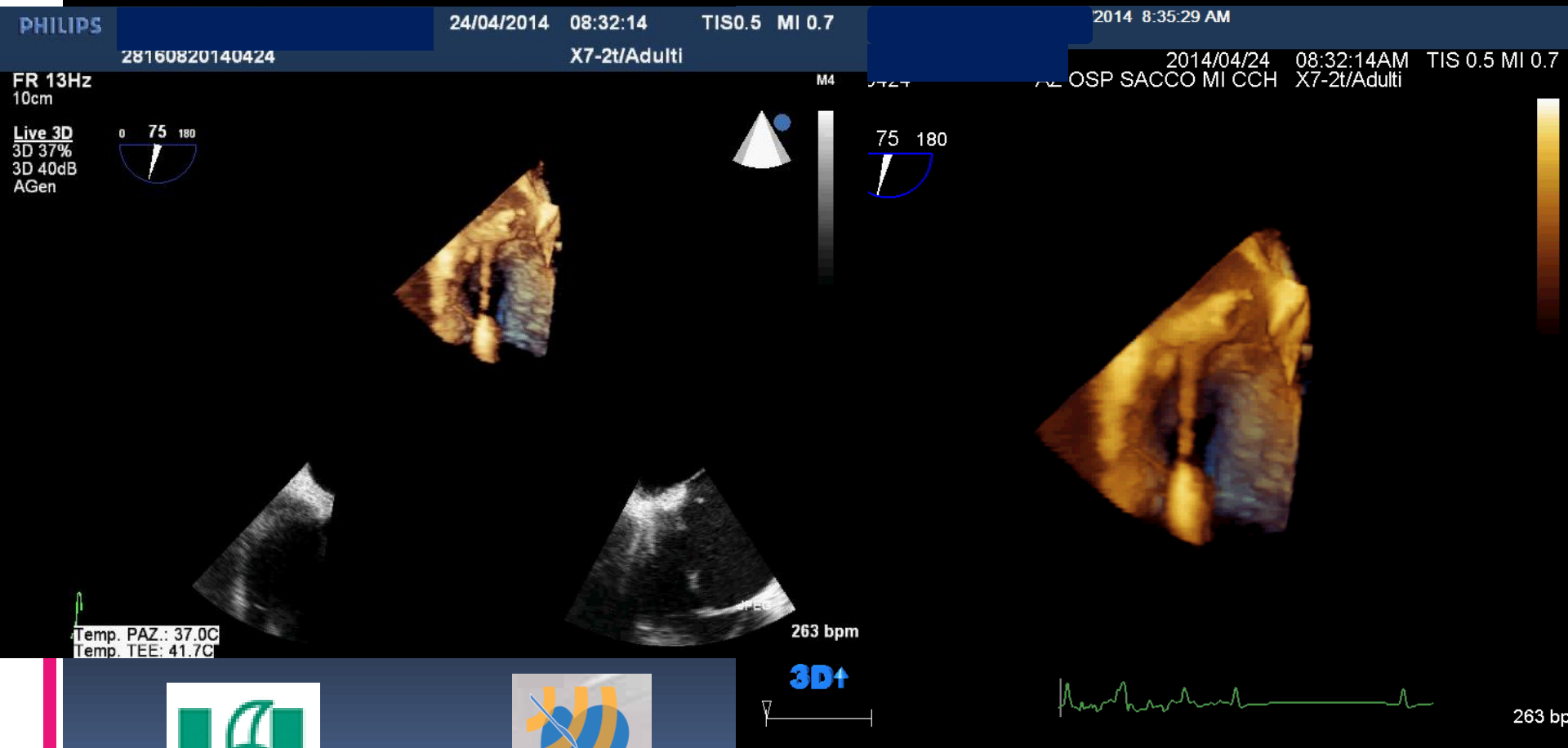
Ritardo 0ms

57 bpm



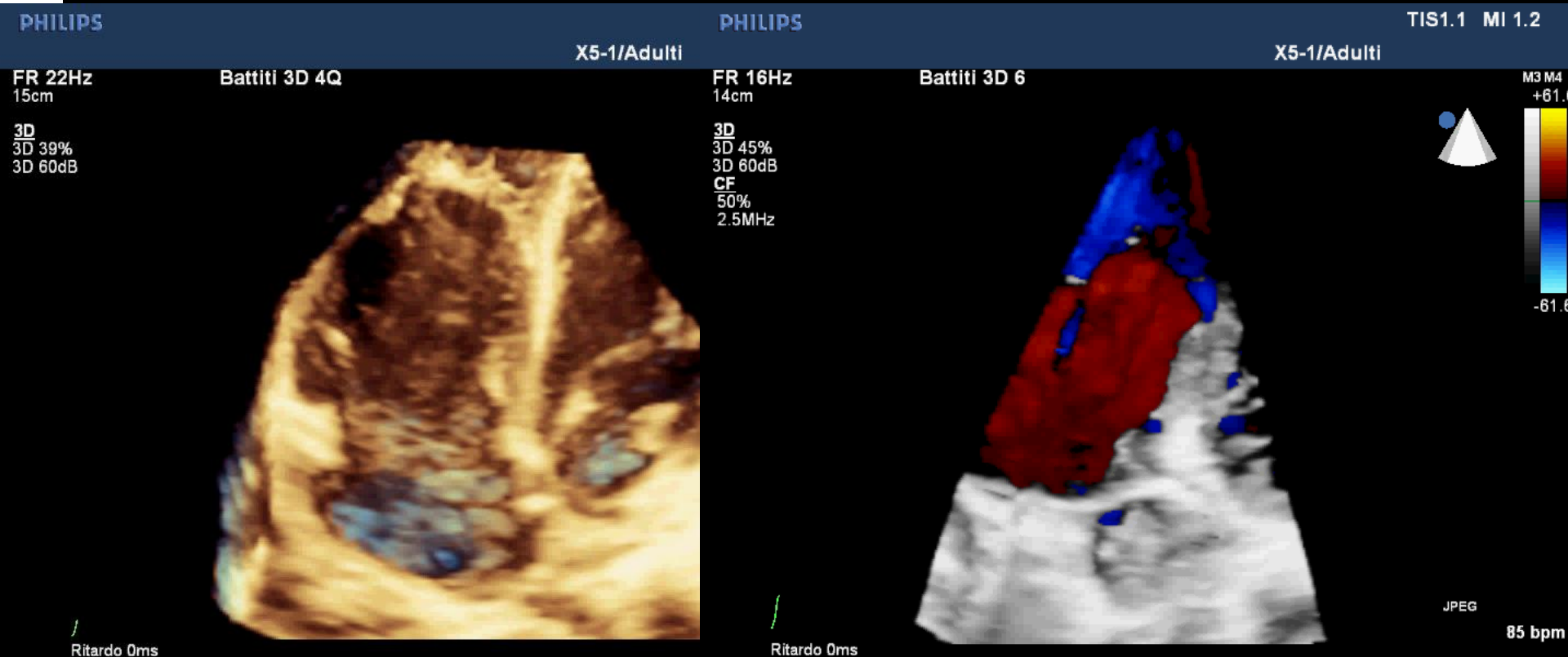
INFEZIONE CATETERE ICD TEE

3D

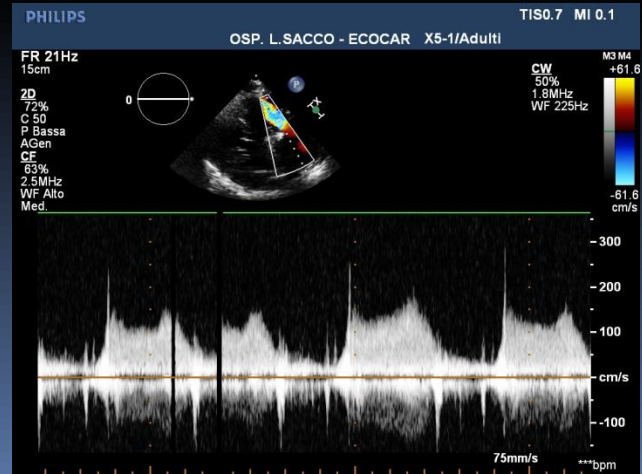
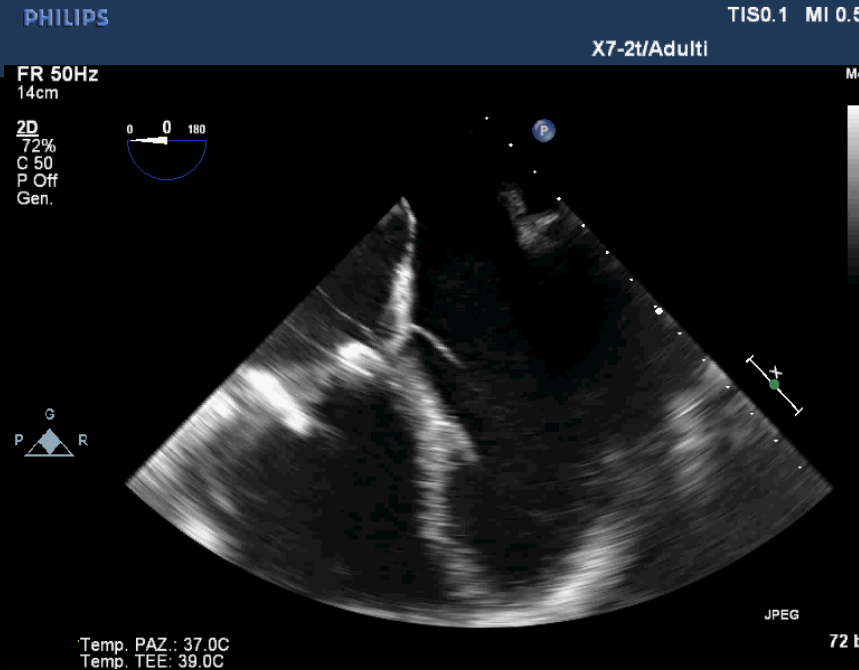


ENDO TRIC TOSSSICODIPENTE

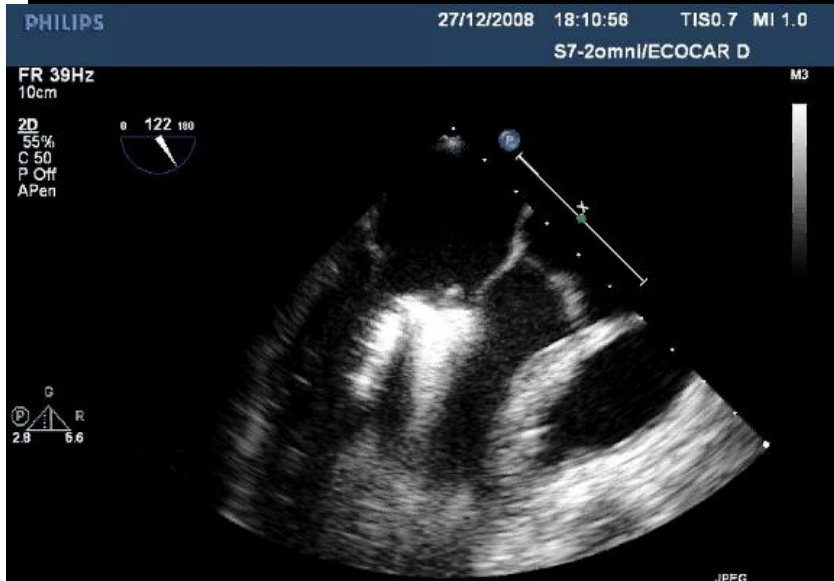
DIAGNOSI AGEVOLE CON TTE



EI BIOPROTESI TRIC TOSSICODIPENDENTE



2014: VISITARE I PZ





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