

Echocardiographie 3D

&

Valve Mitrale

Philippe Acar

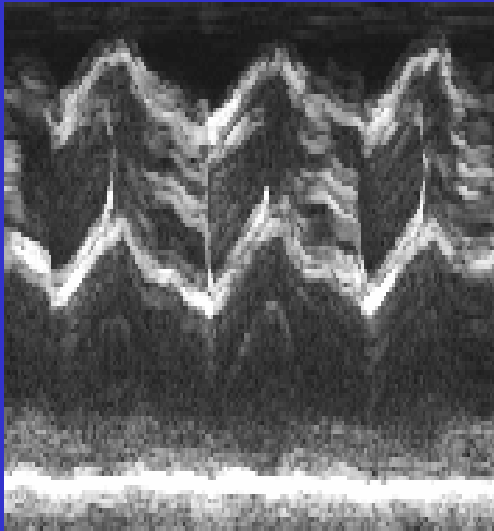
Hôpital des Enfants

Toulouse

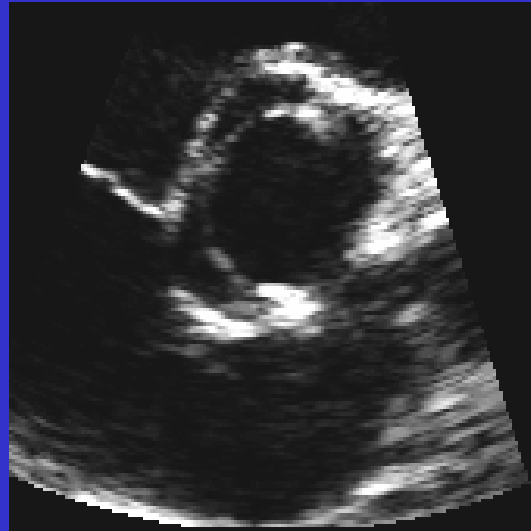
Journée d'Echocardiographie Libanaise

26 Novembre 2005

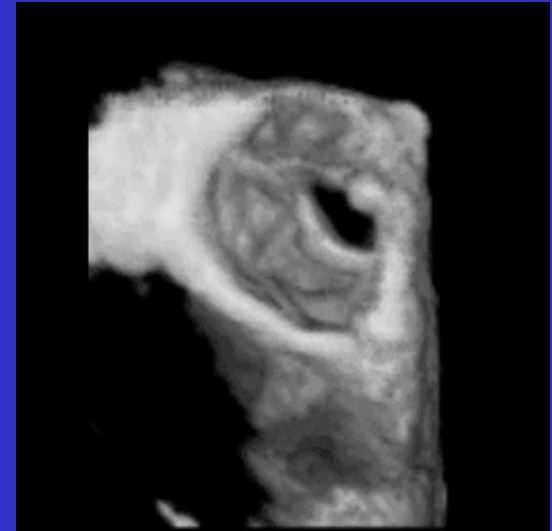
Echocardiographie 3D



TM



2D

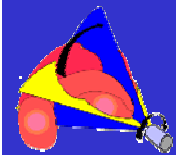
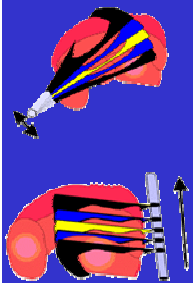


3D

Acquisition

Reconstruction

Quantification



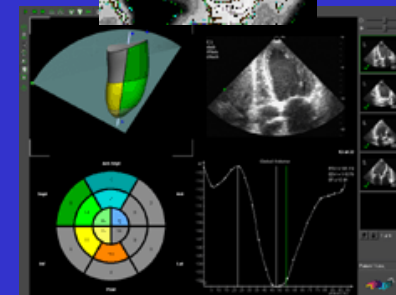
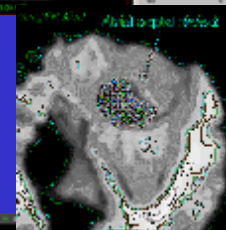
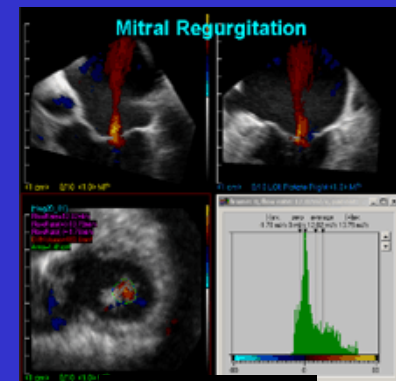
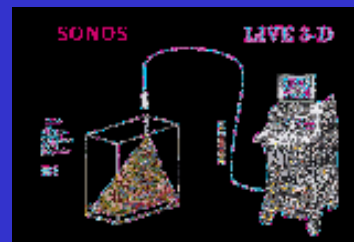
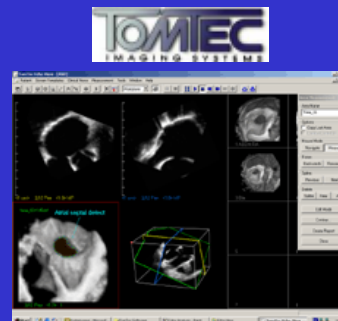
Video

Digital

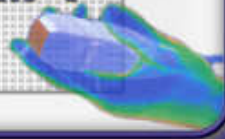
Digital

Digital

Digital



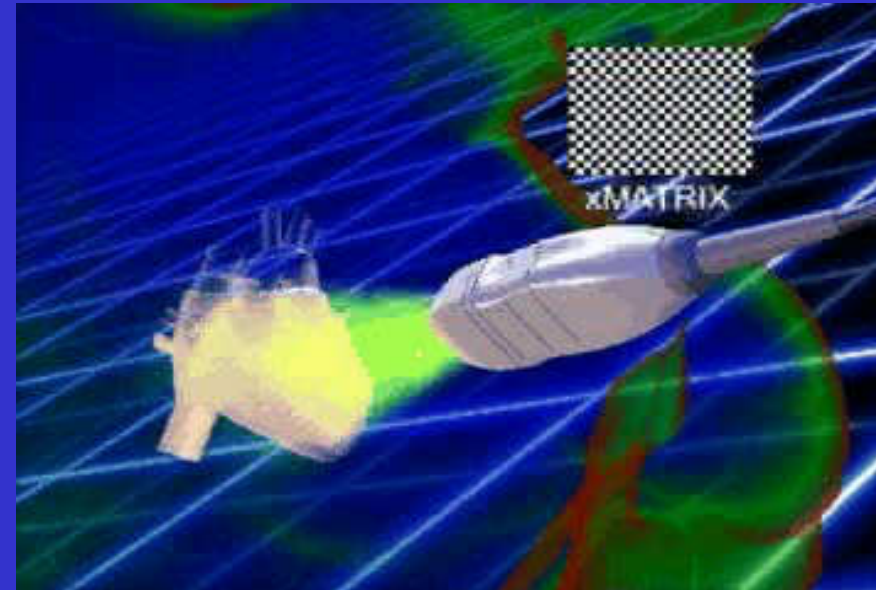
xMATRIX
Transducer
Technology



SONOS 7500

Vues 3D

Quantification



IM : 1.0

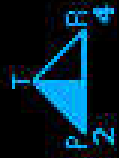
X4

23 FEB 2004

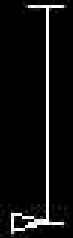
Phillips Medical
Systems
Pediatr.

GAIN 30 50
COMP 30 50

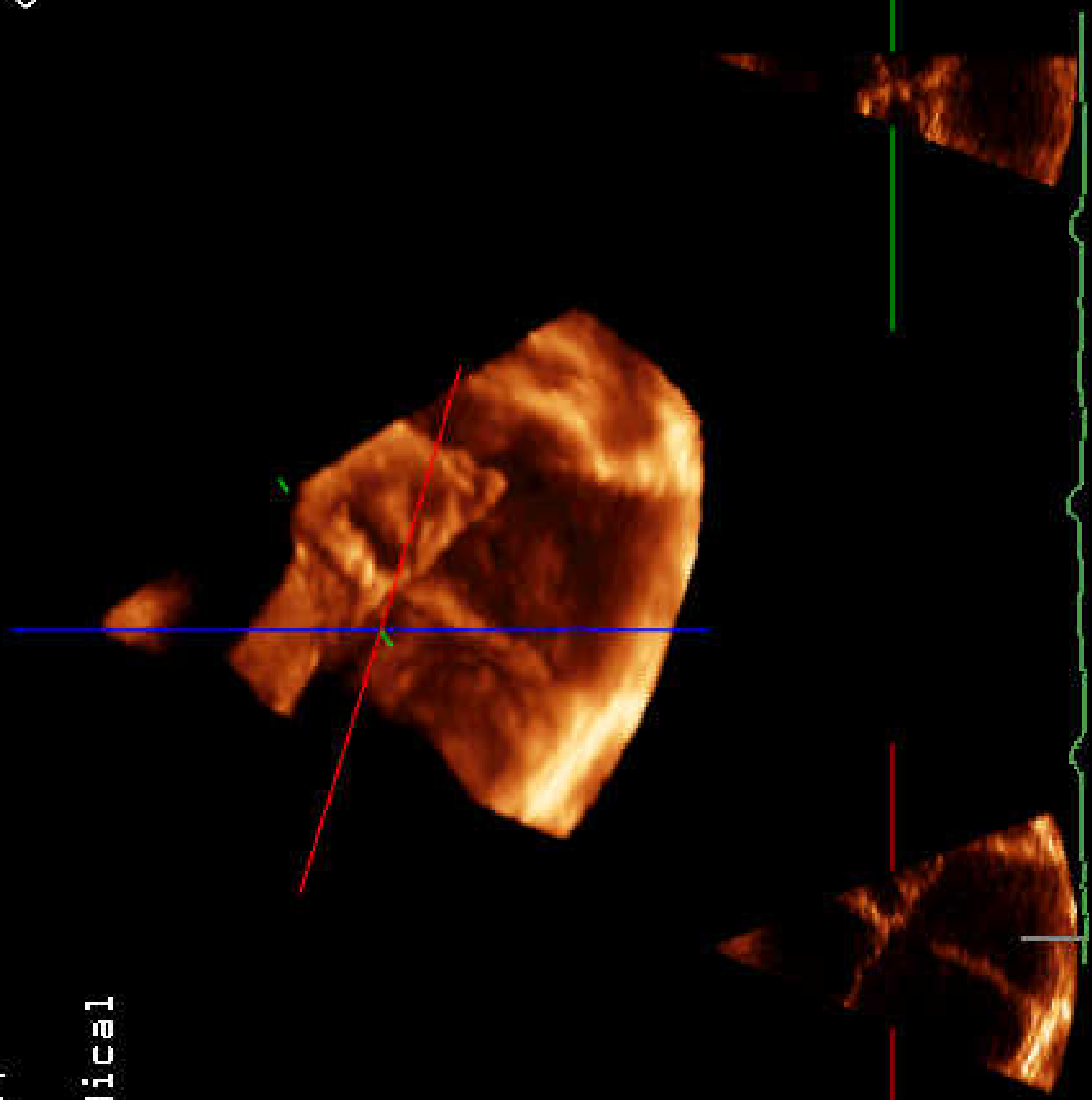
16cm
19HZ



2.04
SEC

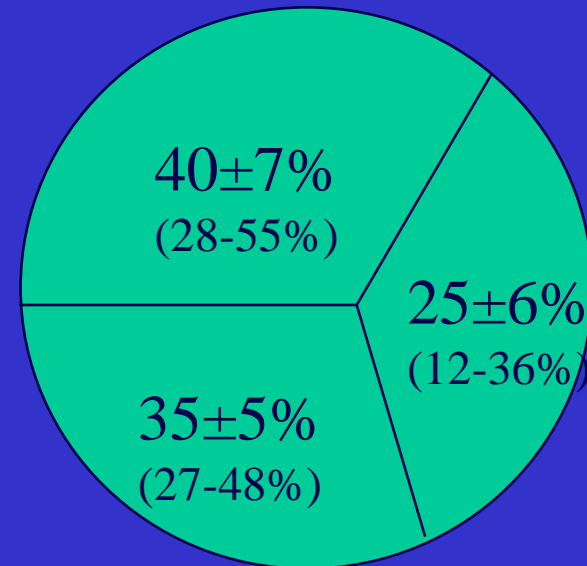
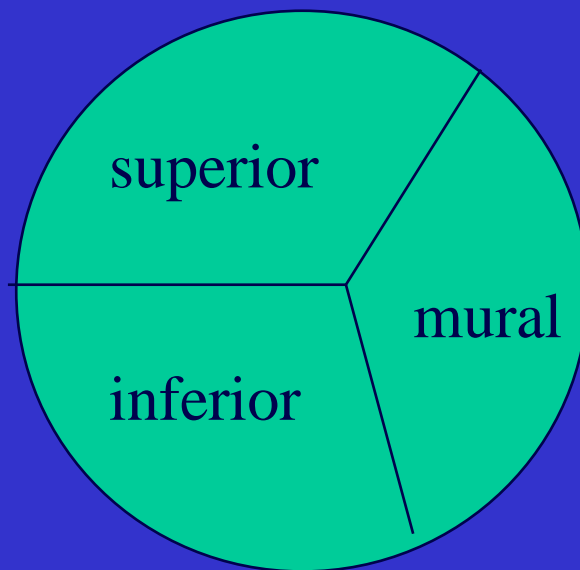
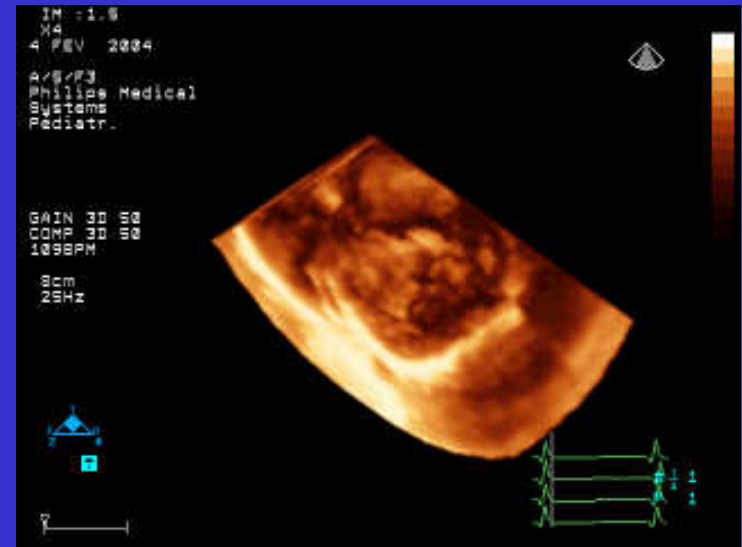


1 1
P 1 1





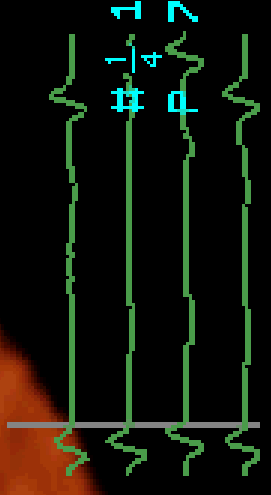
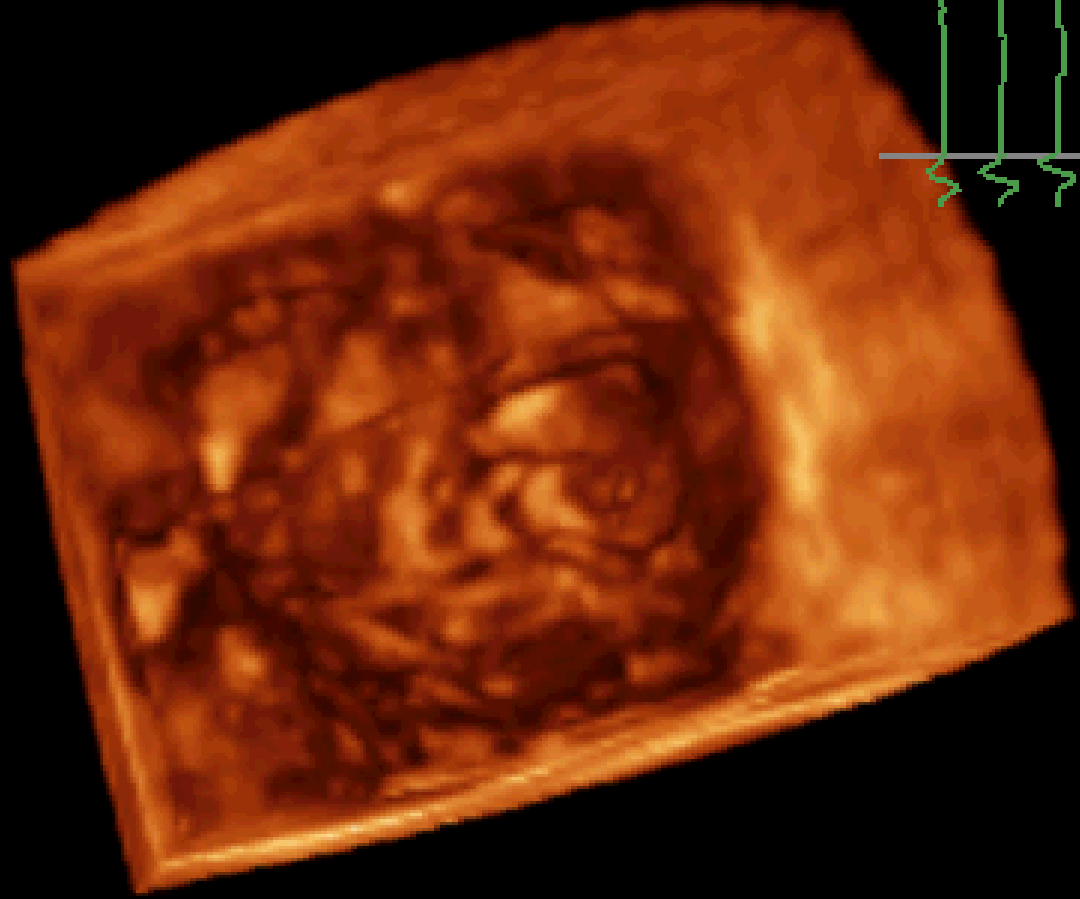
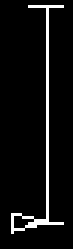
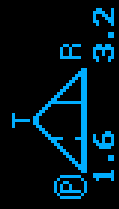
Fente Mitrale



Acar et al. Am J Cardiol 1999;83:745-9

IM : 1.2
X4
30 JUN 2004
S\5\H1
Philips Medical
Systems
Pediatr.

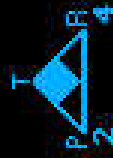
GAIN 3D 50
COMP 3D 50
86BPM
9cm
25HZ



IM : 1.0
X4
13 AVR 2005
A/S/F3 Medical
Philips
Systems
LIVE 3D

GAIN 3D 50
COMP 3D 50
85BPM

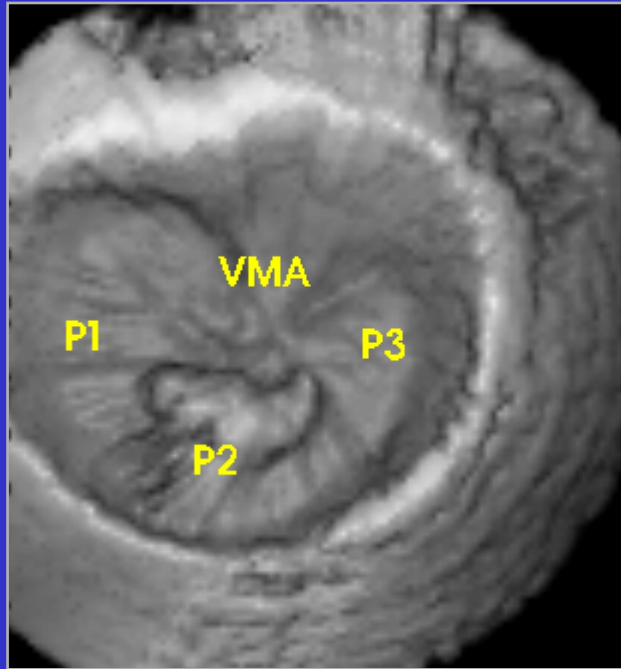
14CM
20HZ



0.73
SEC



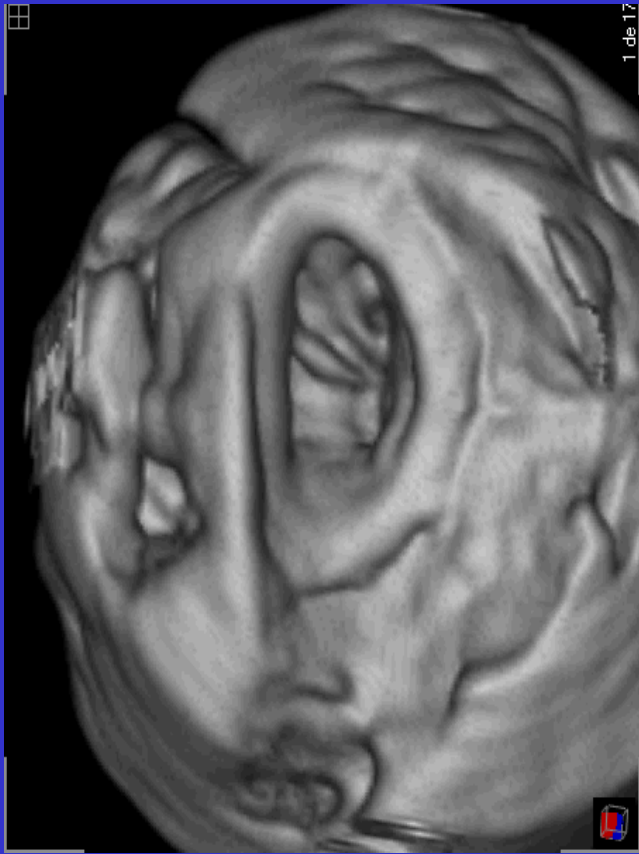
1
R 1



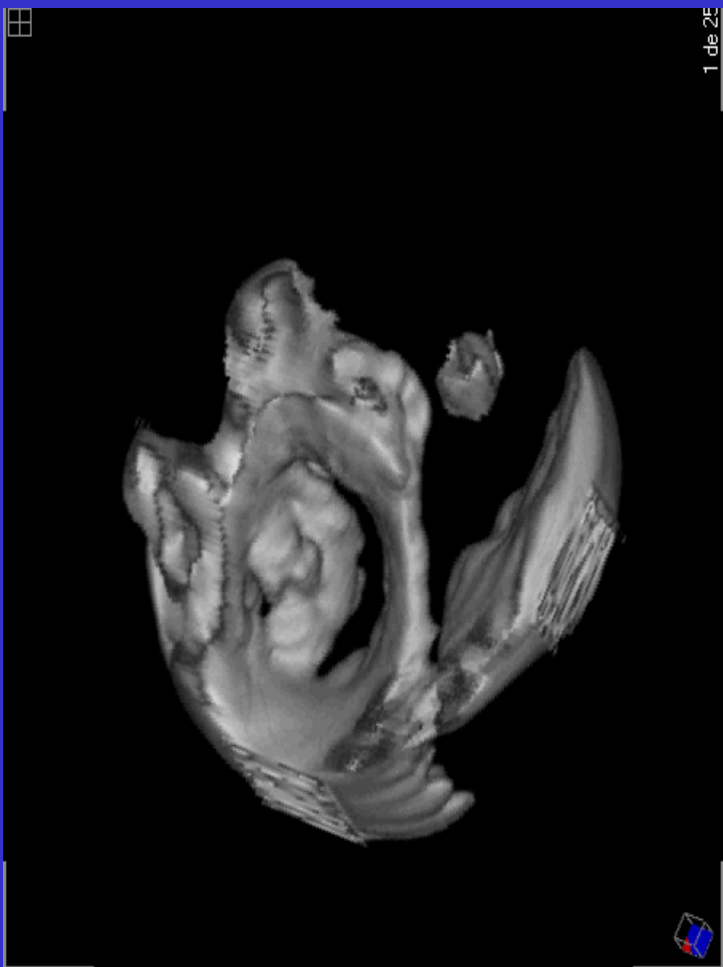
Prolapsus Mitral



*Chauvel et al.
J Heart Valve Dis 2000*



1 de 17



1 de 25

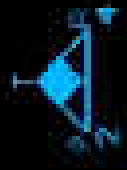
M: 0.9 TIS: 0.5
X4

F3/M3/A

PHILIPS

3D GAIN 51
3D COMP 42
68EPM

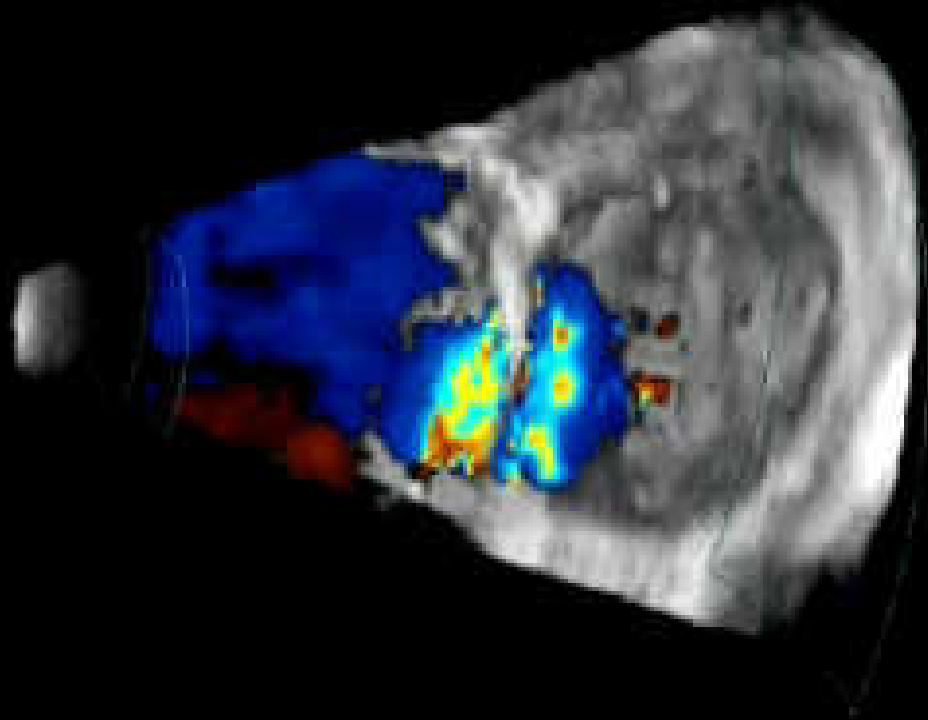
19CM
11HZ



2.5MHz
51

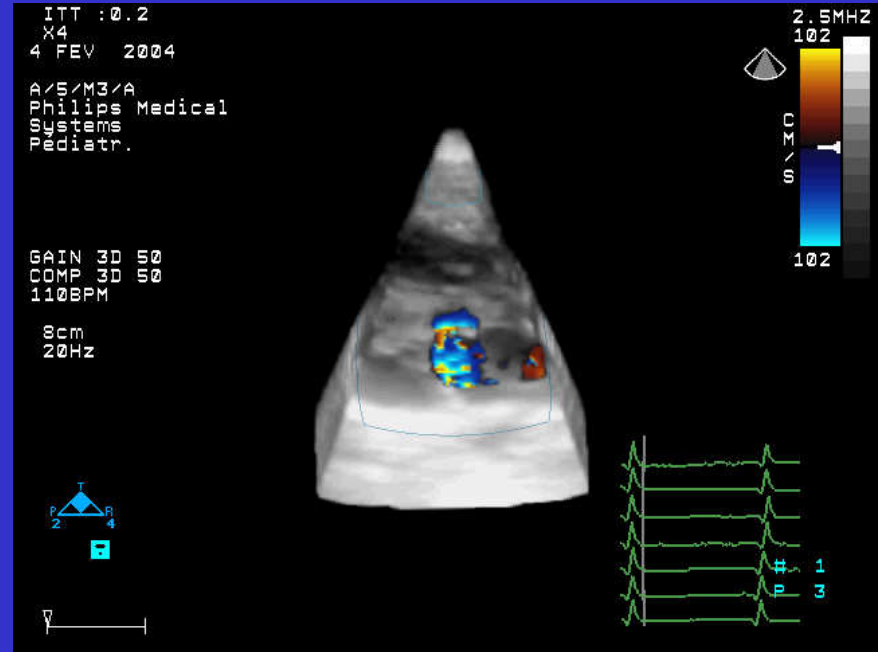


51 / 51

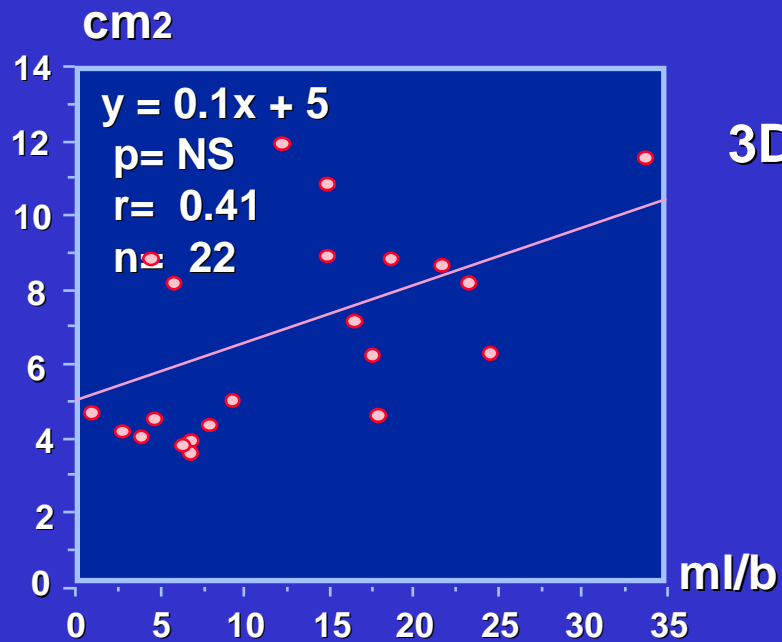


Fuite Mitrale

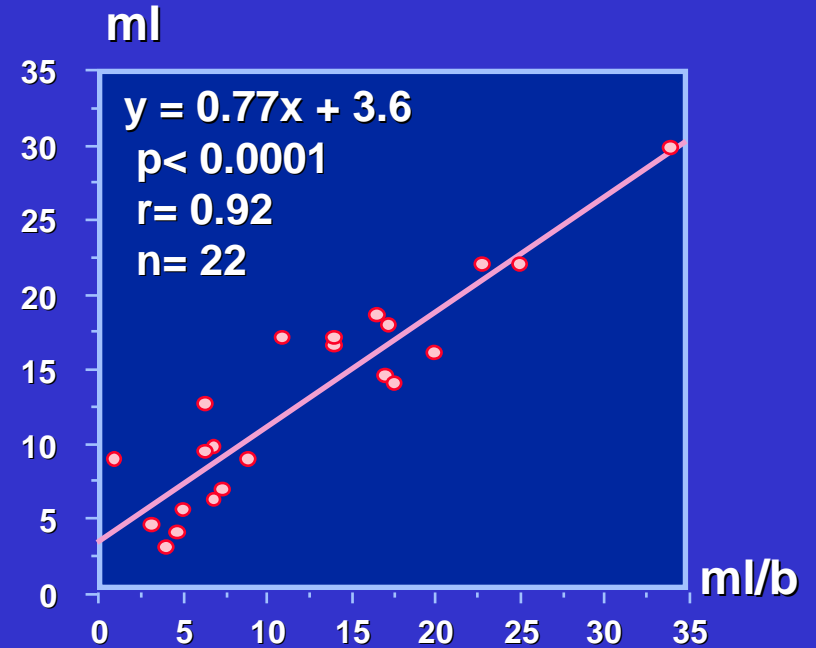
De Simone R. 2000;86:1343-8



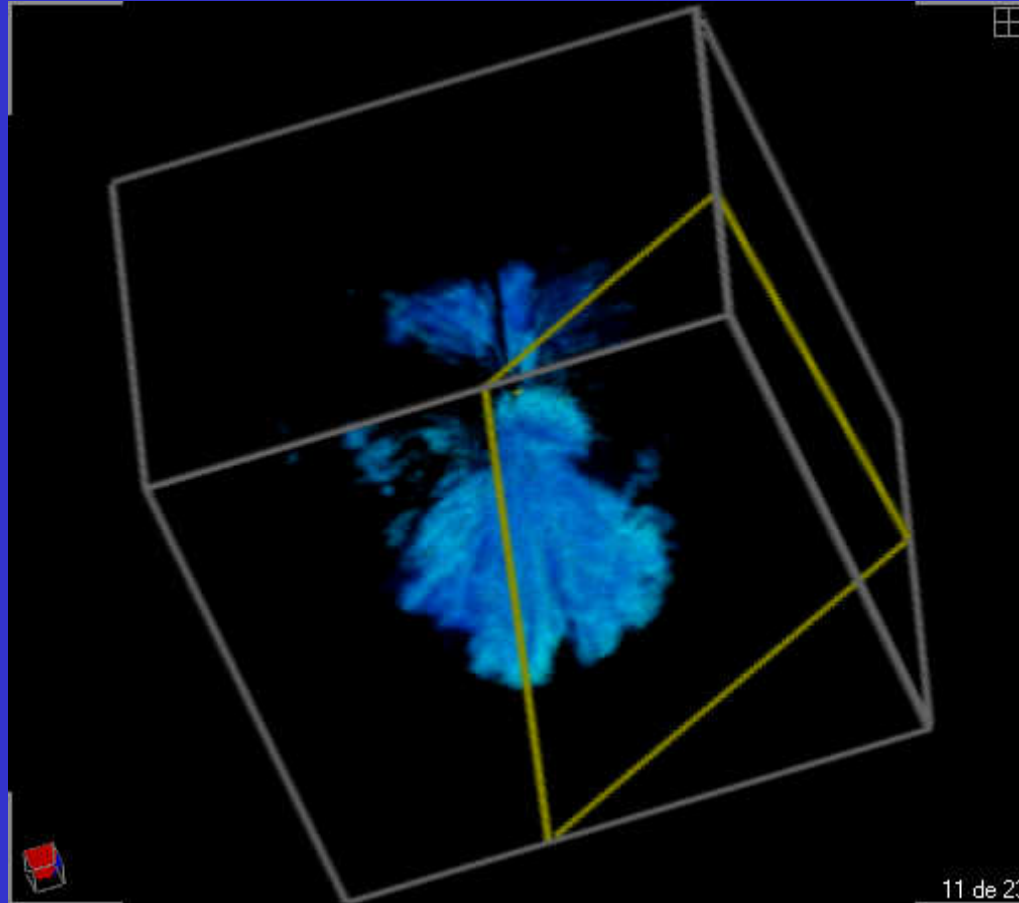
2DE



3DE



PISA



*Khanna 2005
Echocardiography;21:737-43*

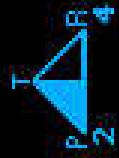
Sténose Mitrale



Zamorano et al. Eur Heart J 2004;25:2086-91

IM : 1.5
X4
9 NOV 2005
A/S/F2 Philips Medical
Systems
LIVE 3D

GAIN 3D 50
COMP 3D 50
82BPM
12CM
23HZ



0.73
SEC

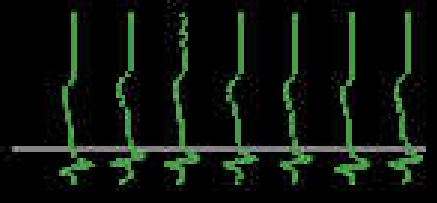
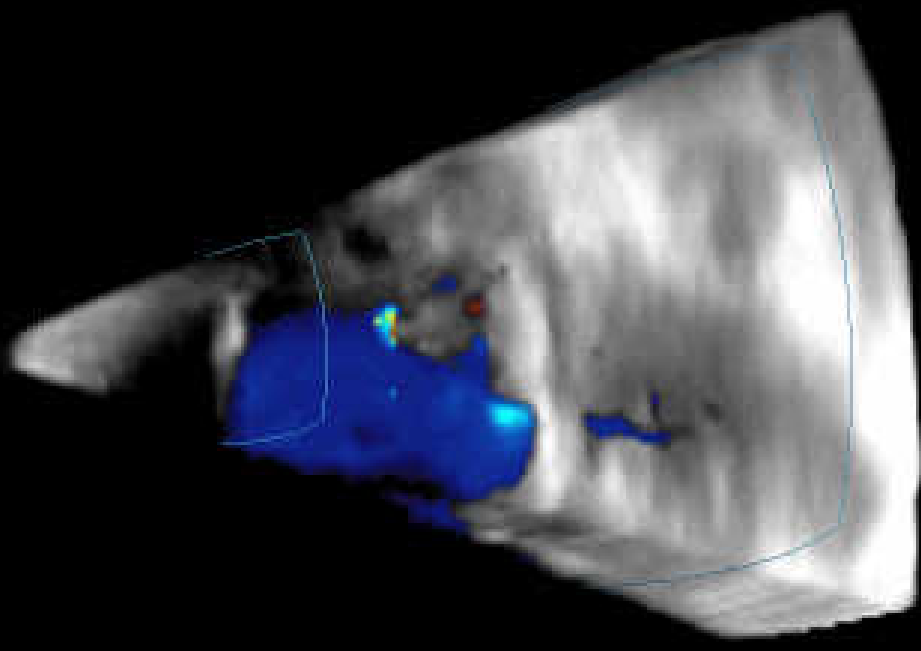
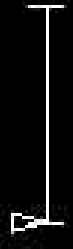
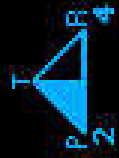


1
P 5



IM : 1.4ITT : 0.9
X4
9 NOV 2005
A/S/M3/A
Phillips Medical
Systems
LIVE 3D

GAIN 3D 50
COMP 3D 50
79BPM
12cm
15HZ

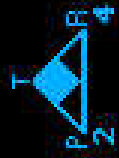


1 1
P 2 7

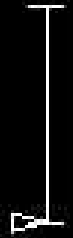
IM : 1.4
X4
21 FEB 2005
A/S/F3 Philips Medical
S/Systems
LIVE 3D

GAIN 3D 50
COMP 3D 50

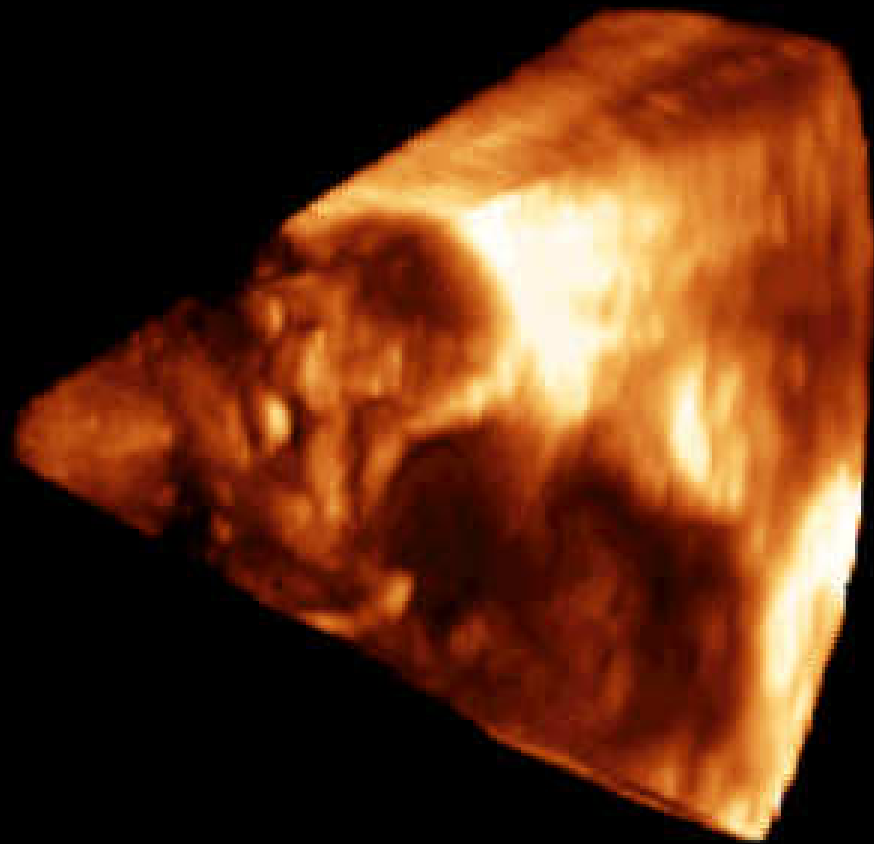
8cm
27HZ



2.00
SEC



1 1
P 15



IM : 1.3

X4

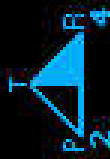
26 MAI 2005

A/S/F4
Philips
Systems
LIVE 3D

Medical

GAIN 3D 41
COMP 3D 50

6cm
27HZ



3
2.02
SEC

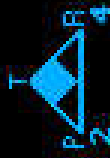


1 1
P 2 18

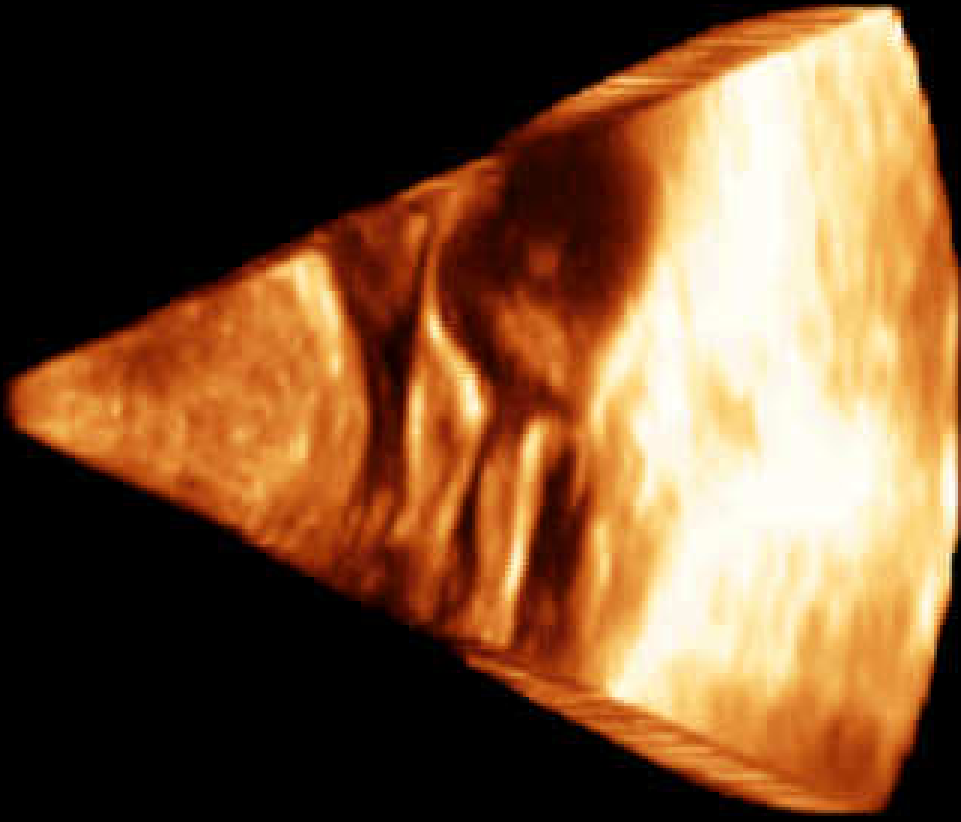
IM : 1.5
X4
10 MARS 2004
A/S/F3 Medical
Philips
Systems
LIVE 3D

GAIN 3D 52
COMP 3D 50
65BPM

11CM
25HZ



0.95
SEC



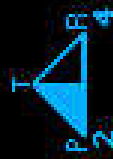
1
P 2



IM : 1.3
X4
12 AVR 2005
A/S/F2 Philips Medical
Systems
LIVE 3D

GAIN 3D 36
COMP 3D 50

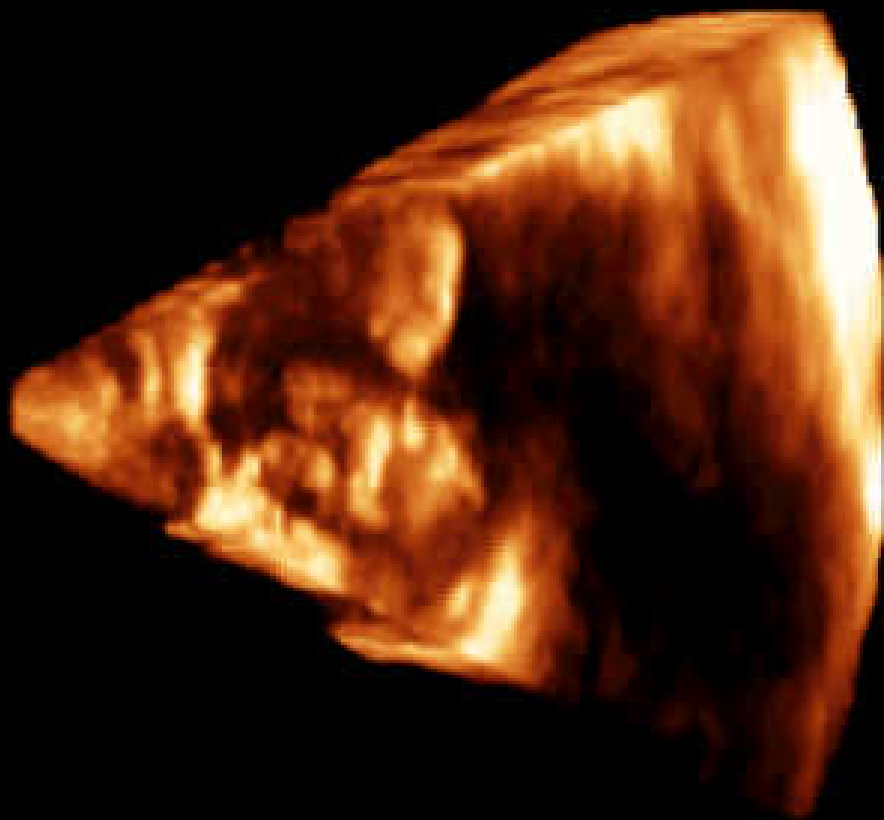
2cm
27HZ



 2.02
SEC



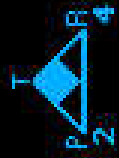
1
P 3



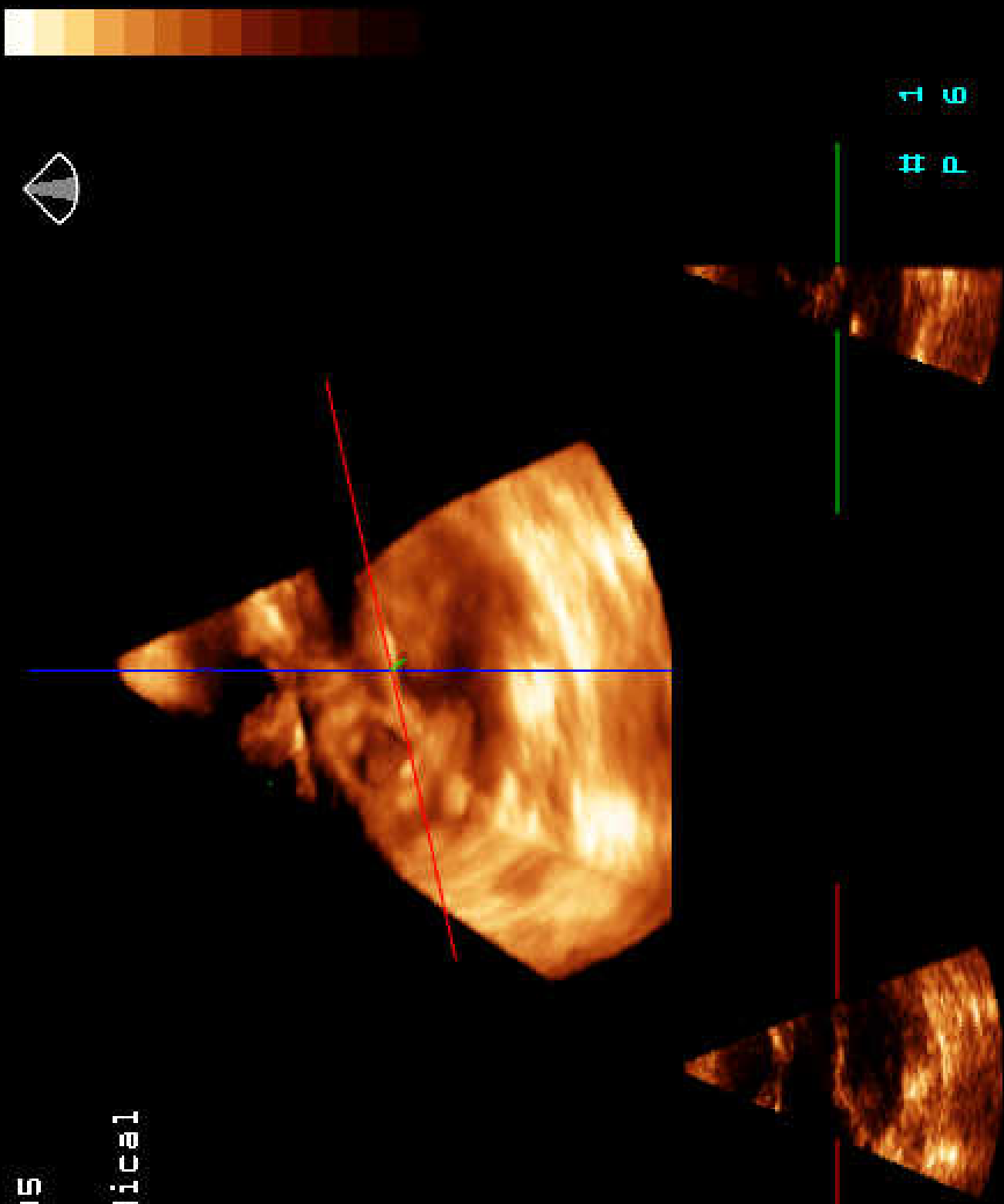
IM : 1.5
X4
26 JANV 2005
A/S/F3 Philips Medical
S/Systems
LIVE 3D

GAIN 3D 49
COMP 3D 50

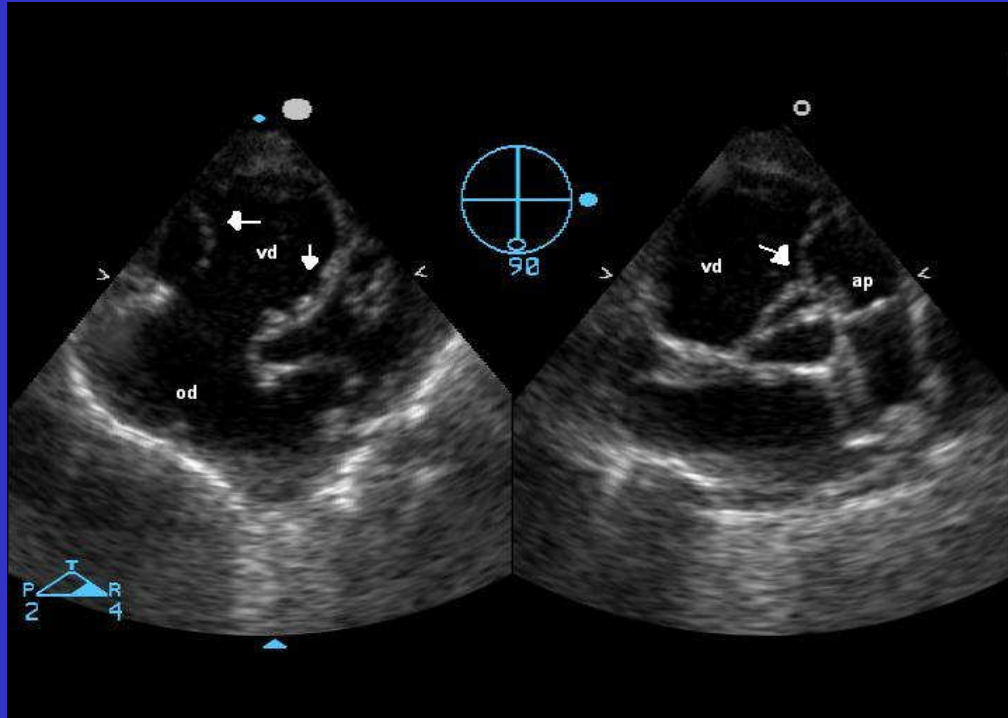
11cm
25HZ



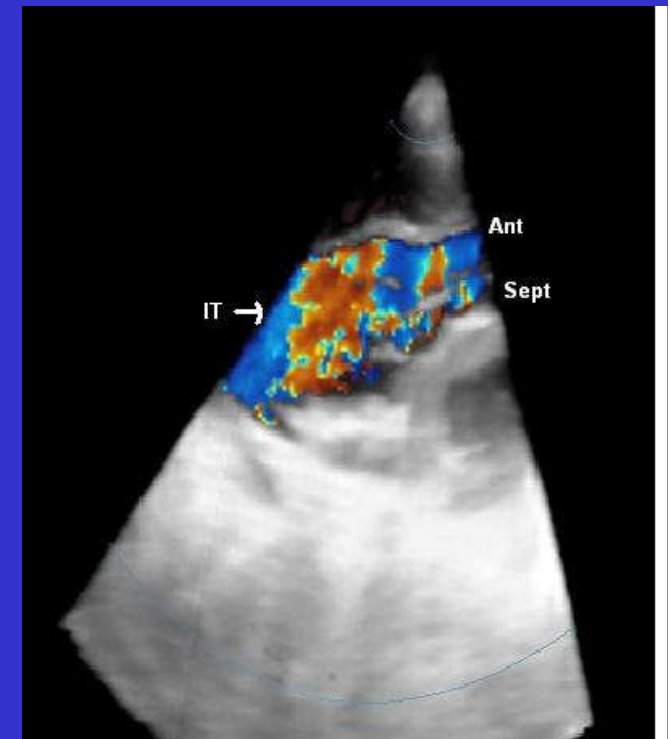
2.07
SEC



Malformation D'Ebstein



Taktak et al. Arch Mal Coeur 2005

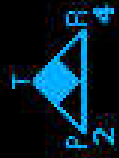


IM : 1.4
X4
2 MARS 2005

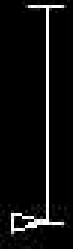
Philips Medical
Systems
LIVE 3D

GAIN 3D 50
COMP 3D 50
76BPM

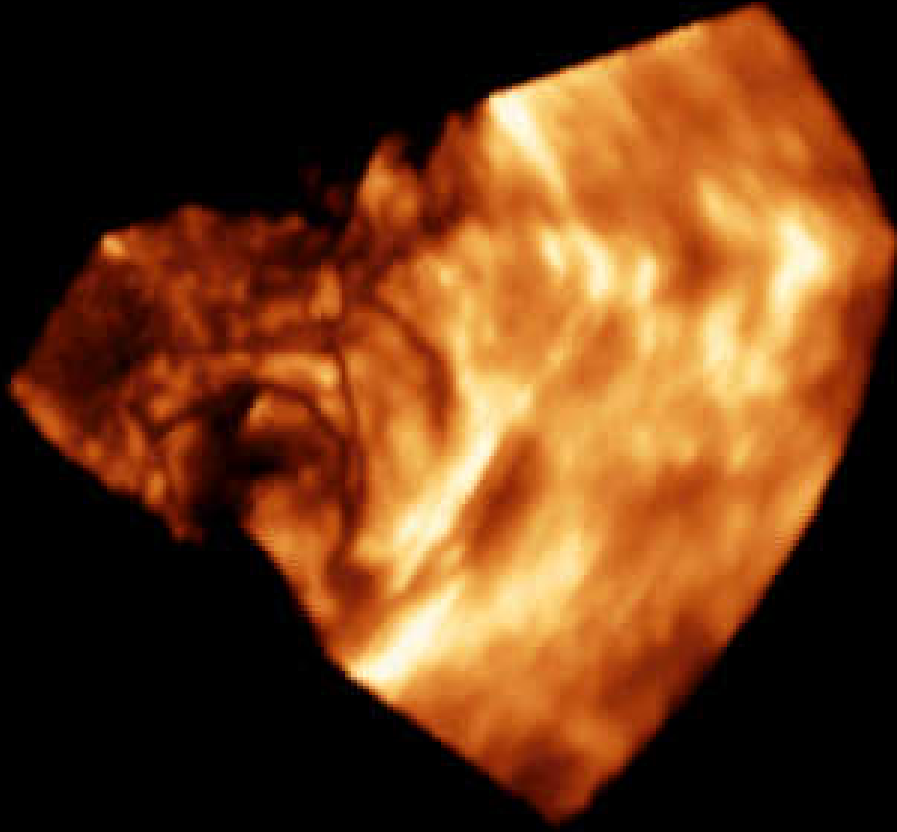
10CM
26HZ



0.98
SEC



1
R 1



IM : 1.0
X4
9 JUN 2004

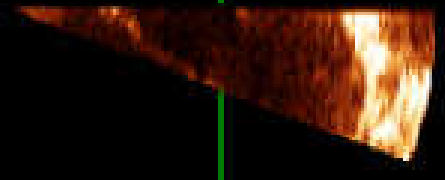
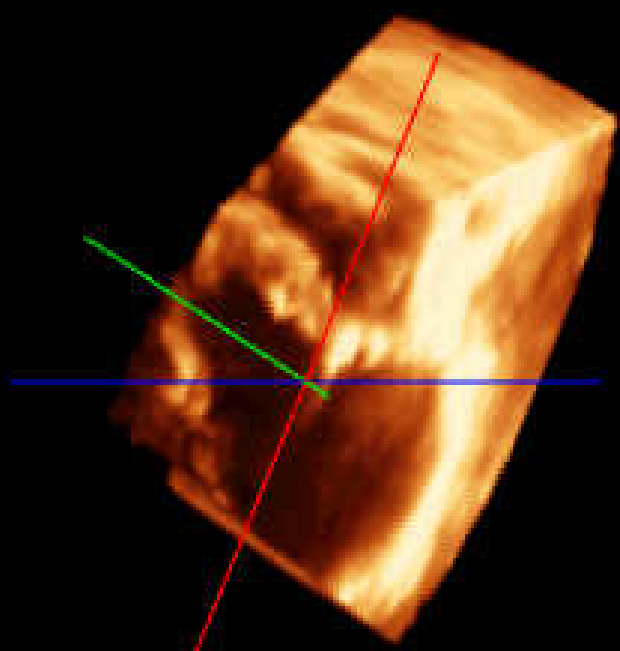
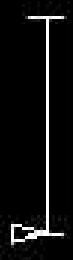
Philips Medical
Systems
ReDiarr.

GAIN 3D 46
COMP 3D 50
65BPM

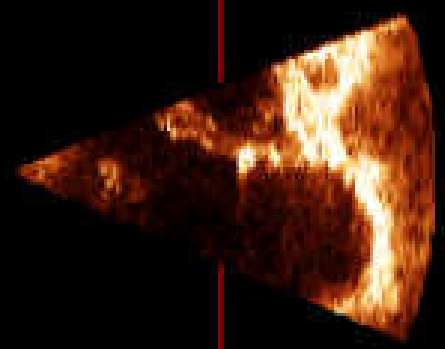
16CM
19HZ



0.86
SEC

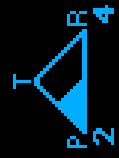


1
P 4

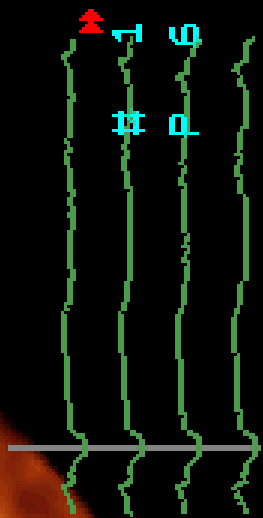
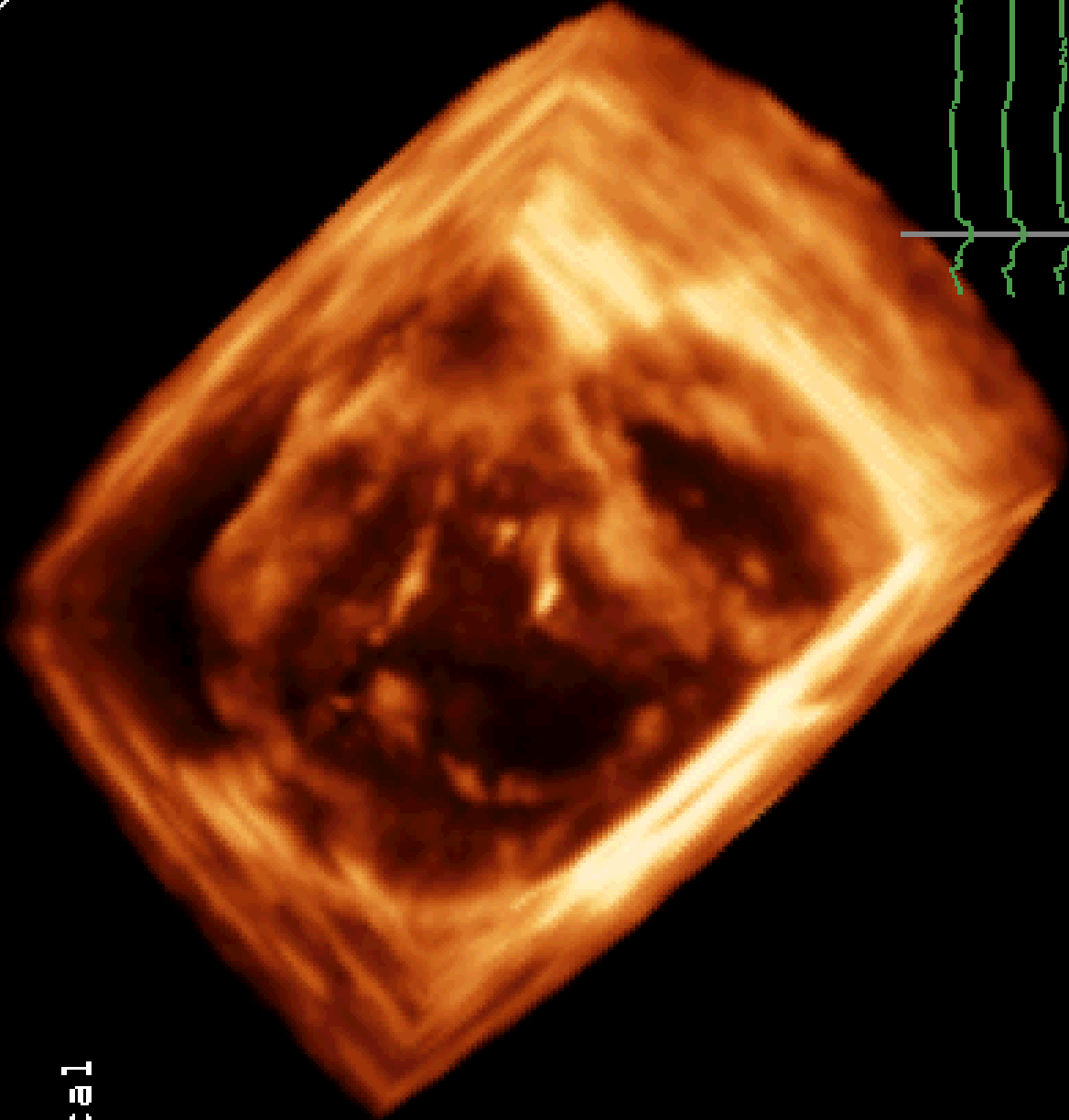
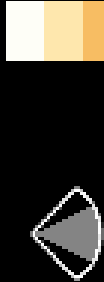


IM : 1.0
X4
9 JUN 2004
A/S/F1
Philips Medical
Systems
Pediatr.

GAIN 3D 50
COMP 3D 50
75BPM
16cm
17HZ



5

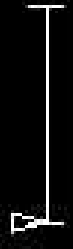
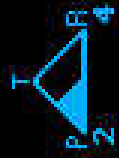


IM : 1.0
X4
3 MARS 2004

Phillips Medical
Systems
Pediatr.

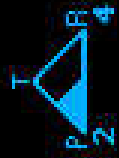
GAIN 30 55
COMP 30 50
57BPM

15CM
19HZ



IM : 1.5
X4
1 JUL 2005
A/S/F1
Phillips Medical
Systems
Adulte

GAIN 3D 41
COMP 3D 75
60BPM
13CM
22HZ



1.05
SEC



hand

1
R 8



Echocardiographie 3D foetale

Acar et al. Prenatal Diagn 2005

IM :1.3
X4
11 JANV 2005
A/5/F3
Philips Medical
Systems
LIVE 3D

GAIN 3D 50
COMP 3D 50

5cm
27Hz



2.02
SEC



P H 1
0 0

IM : 1.3

X4

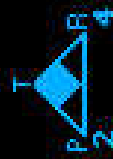
11 JANV 2005

PHILIPS
SYSTEMS
LIVE 3D

Medical

GAIN 3D 50
COMP 3D 50

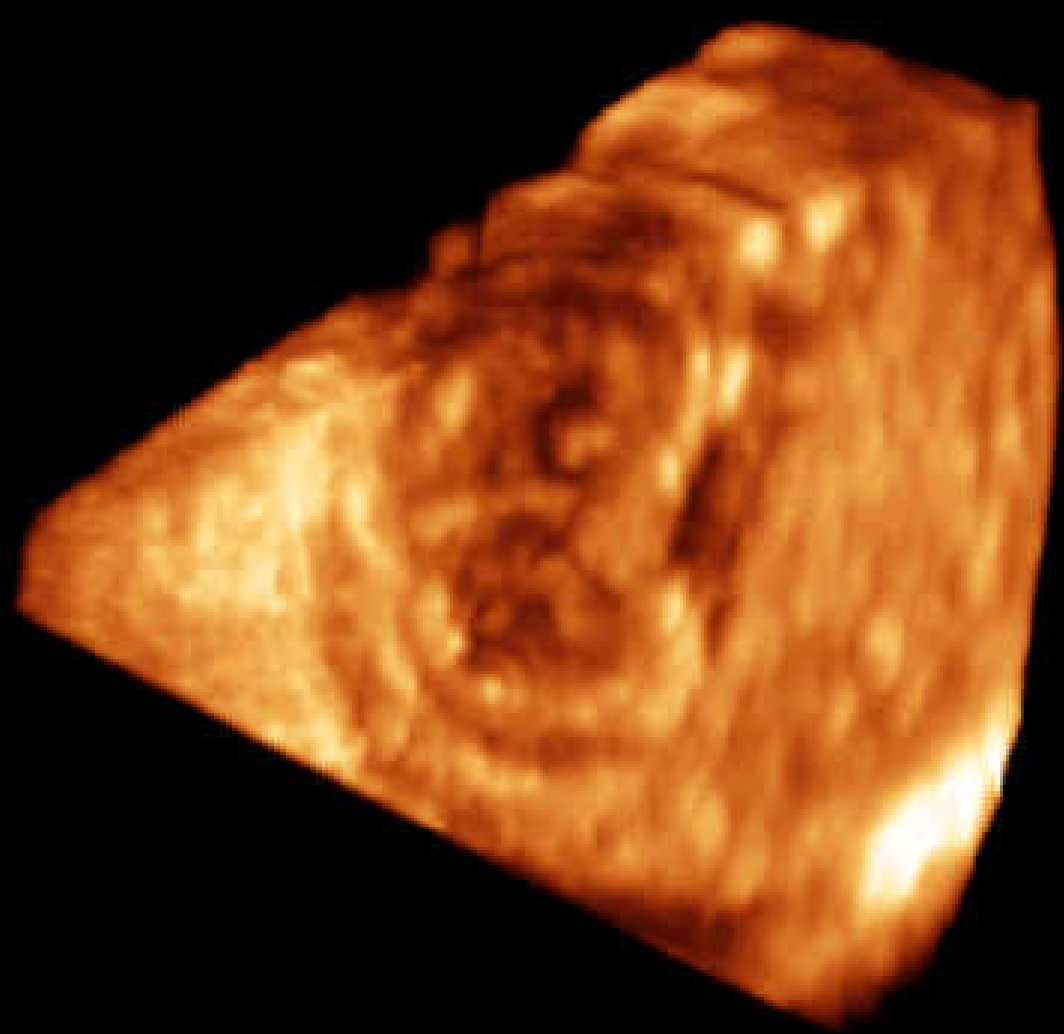
5CM
27HZ



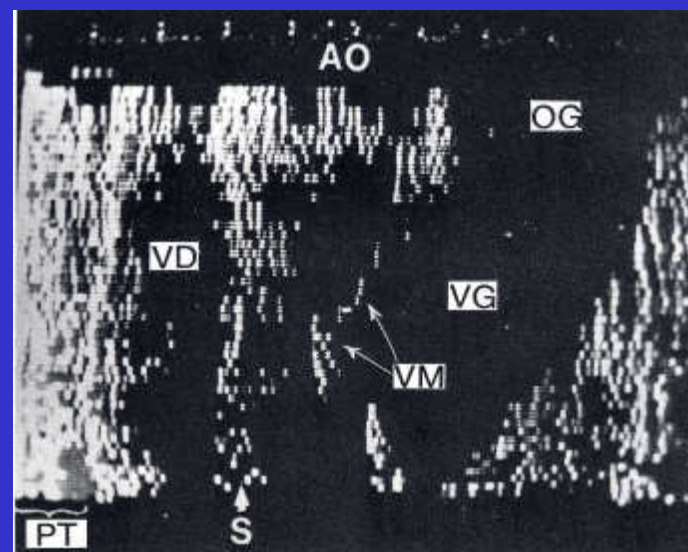
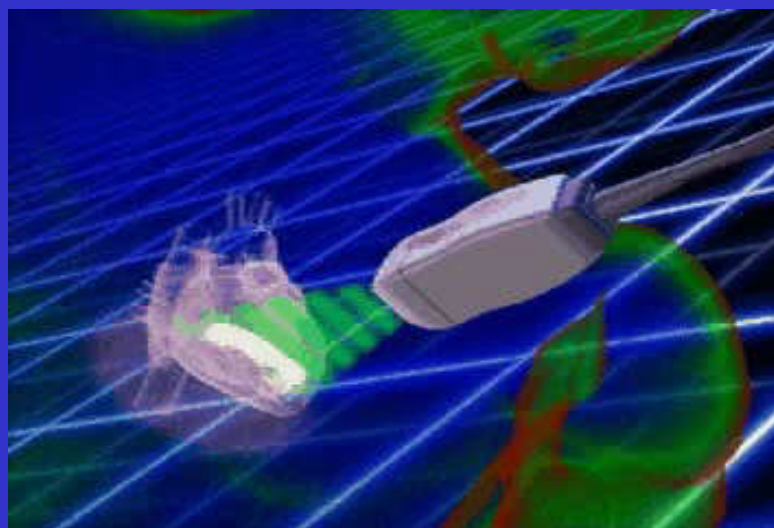
2.02
SEC



1 1
P 12



Echo 2D en 1980



Echo 3D en 2010

