

Médecine Nucléaire

Pathologies cardio-respiratoires

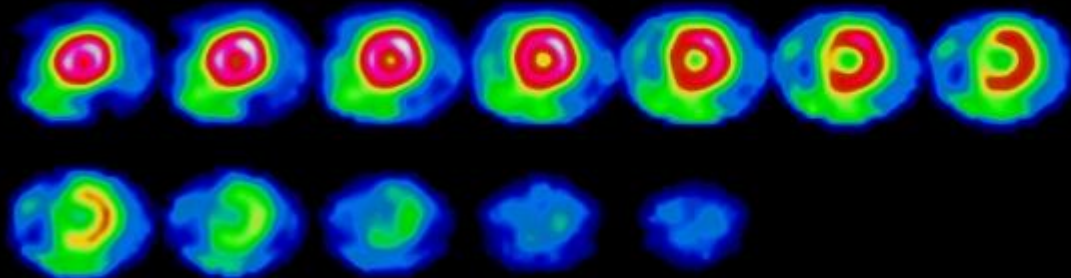
CHRU Montpellier

Service de Médecine Nucléaire



Scintigraphie myocardique

PRONE
ANT
SEP LAT
INF
STRESS_FBPSC(G)



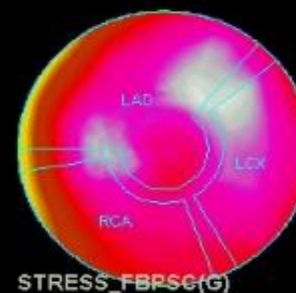
STRESS_FBPSC(G)

Date: 2011/01/13 09:16

SA Pixel Size: 6.65mm

SA Thickness: 6.65mm

Recon: FBP/Bw/0.25/5



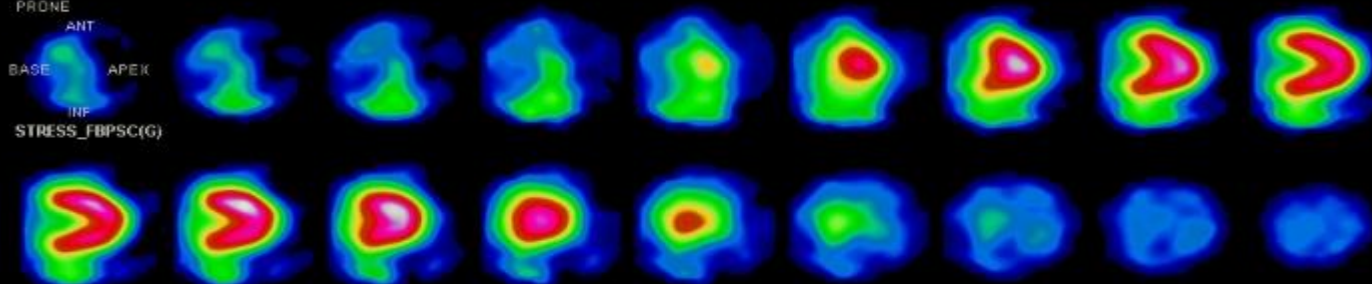
Homme, 81

Pré-op

EE Pharma
négative
cliniquement
et
électriquement

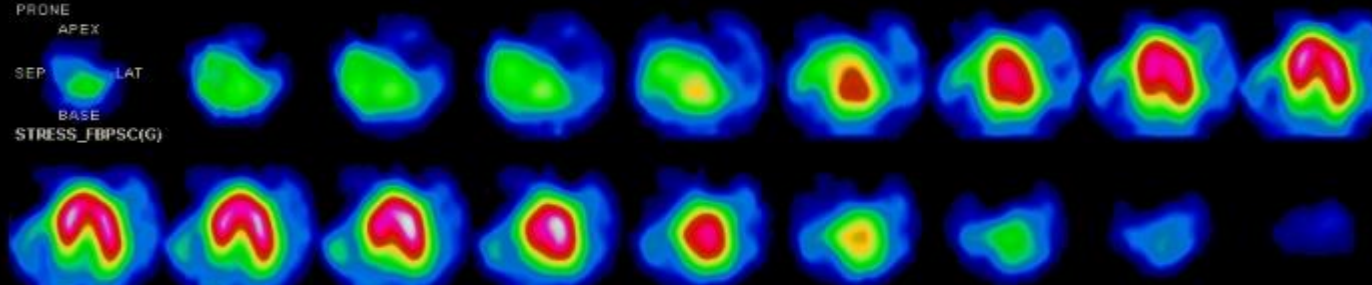
← Apical Short Axis Basal →

PRONE
ANT
BASE APEX
INF
STRESS_FBPSC(G)

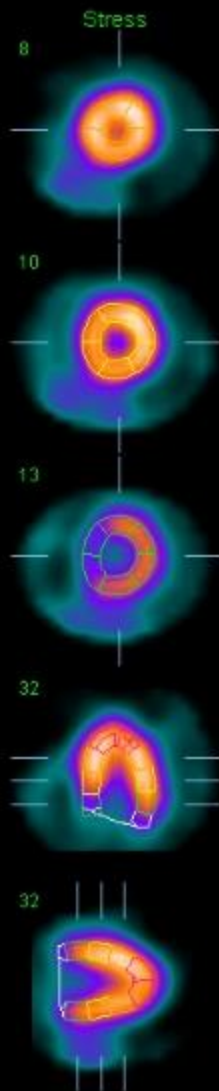


← Septal Vertical Axis Lateral →

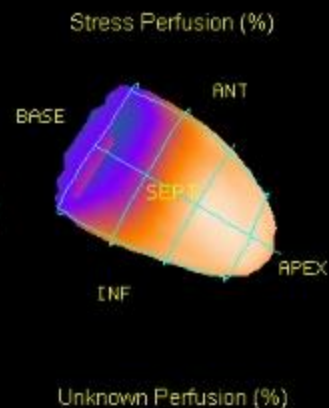
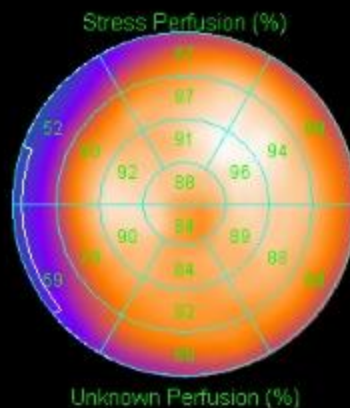
PRONE
APEX
SEP LAT
BASE
STRESS_FBPSC(G)



← Inferior Horizontal Axis Anterior →



Unknown



SSS 0 S-S - SDS -

Study	MYOCARDE 99mTc
Dataset	STRESS_FBPSC
Date	2011-01-13 09:16:20
Volume	31ml
Area	75cm ²
Defect	0cm ²
Extent	1%

Study	--
Dataset	--
Volume	--
EDV	--
ESV	--
EF	--

Auto 0 - Grid Accept Reject

Homme, 69
HTA

Dépistage

EE mixte
maquillée
84% FMT
négative
cliniquement
et positive
électriquement

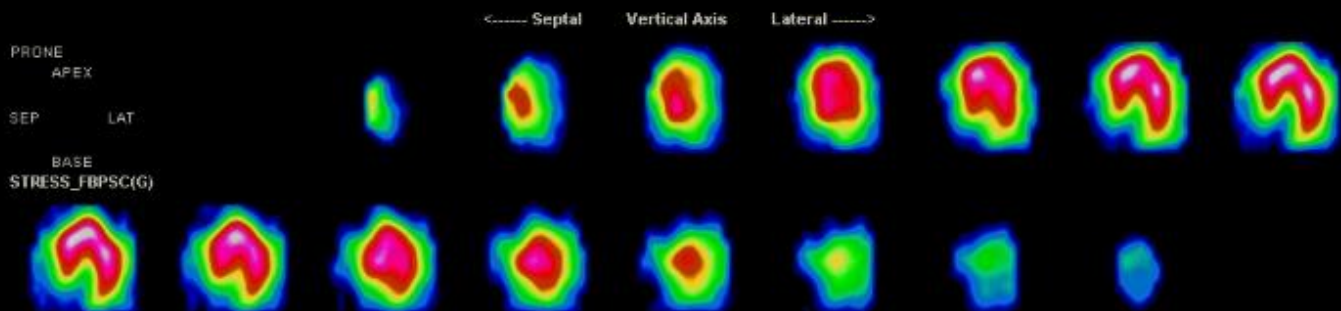
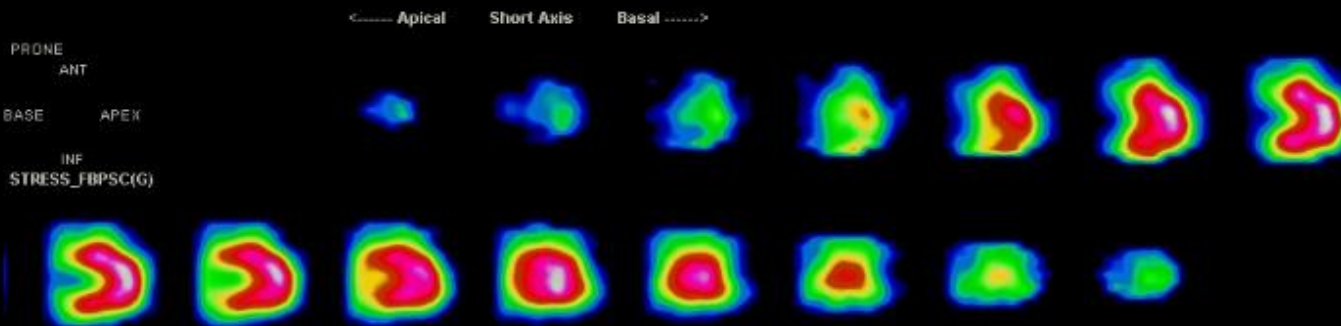
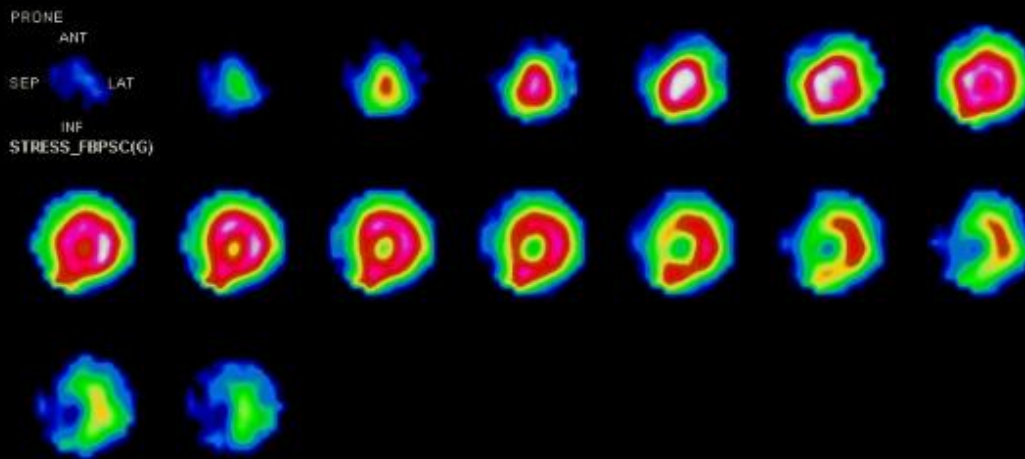
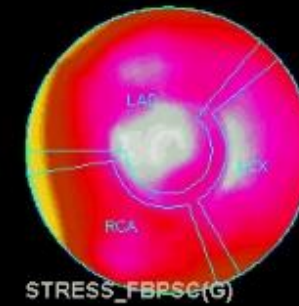
STRESS_FBPSC(G)

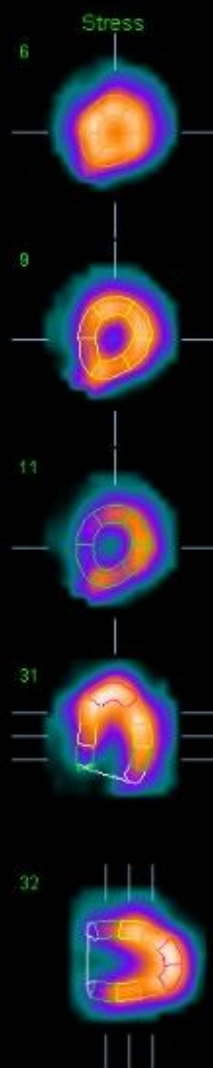
Date: 2011/10/21 11:02

SA Pixel Size: 6.65mm

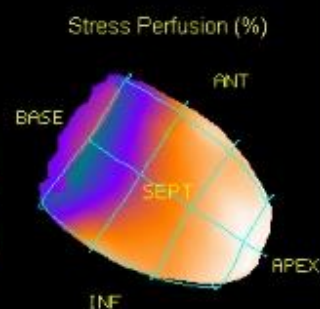
SA Thickness: 6.65mm

Recon: FBP/Bw/0.25/5

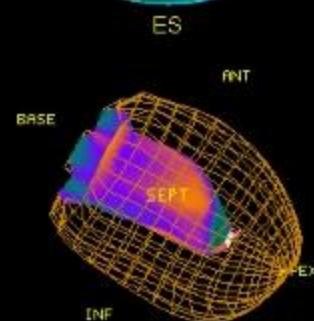
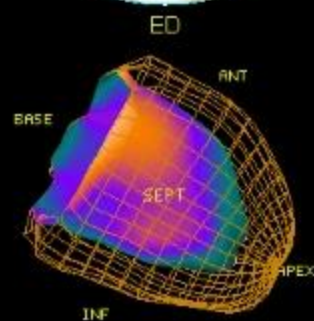
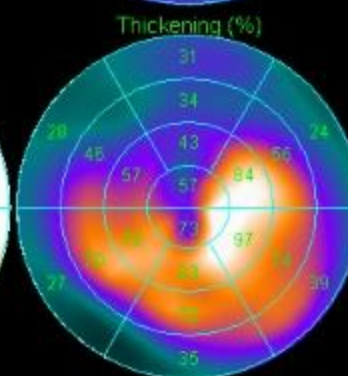
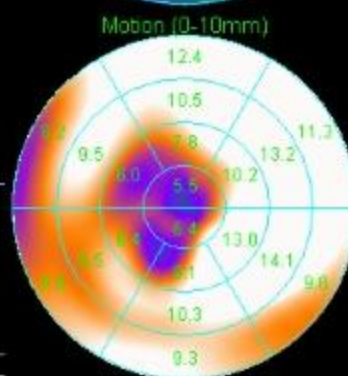
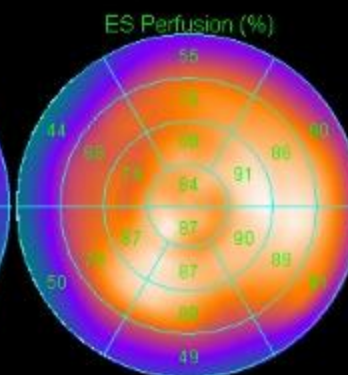
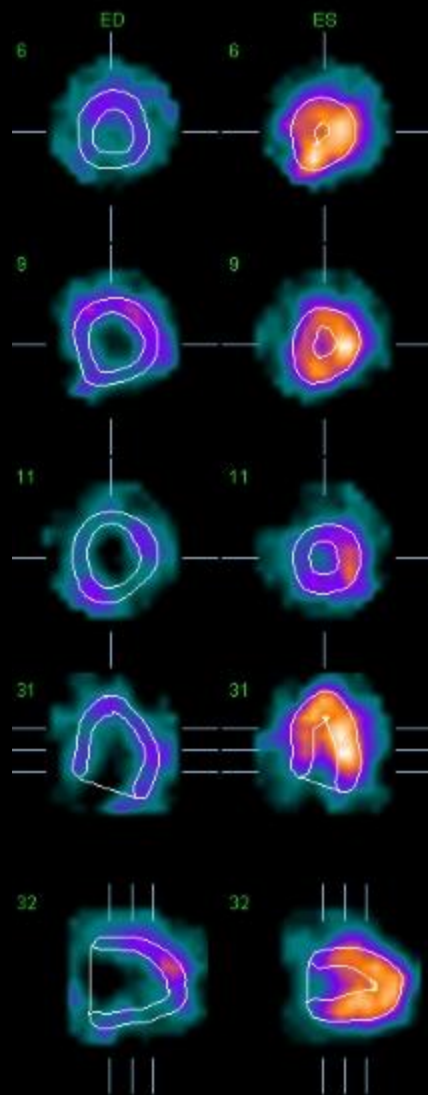




Unknown



Sex	MALE
Limits	A:MIbMIbMIbMale
SSS	2 S-S -- SDS --
Study	MYOCARDE 99mTc
Dataset	STRESS_FBPS
Date	2011-10-21 11:02:15
Volume	38ml
Area	86cm ²
Defect	1cm ²
Eidext	2%
Study	--
Dataset	--
Volume	--
EDV	--
ESV	--
EF	--
Auto ☐ - ☐ Grid ☐ Accept ☐ Reject ☐	

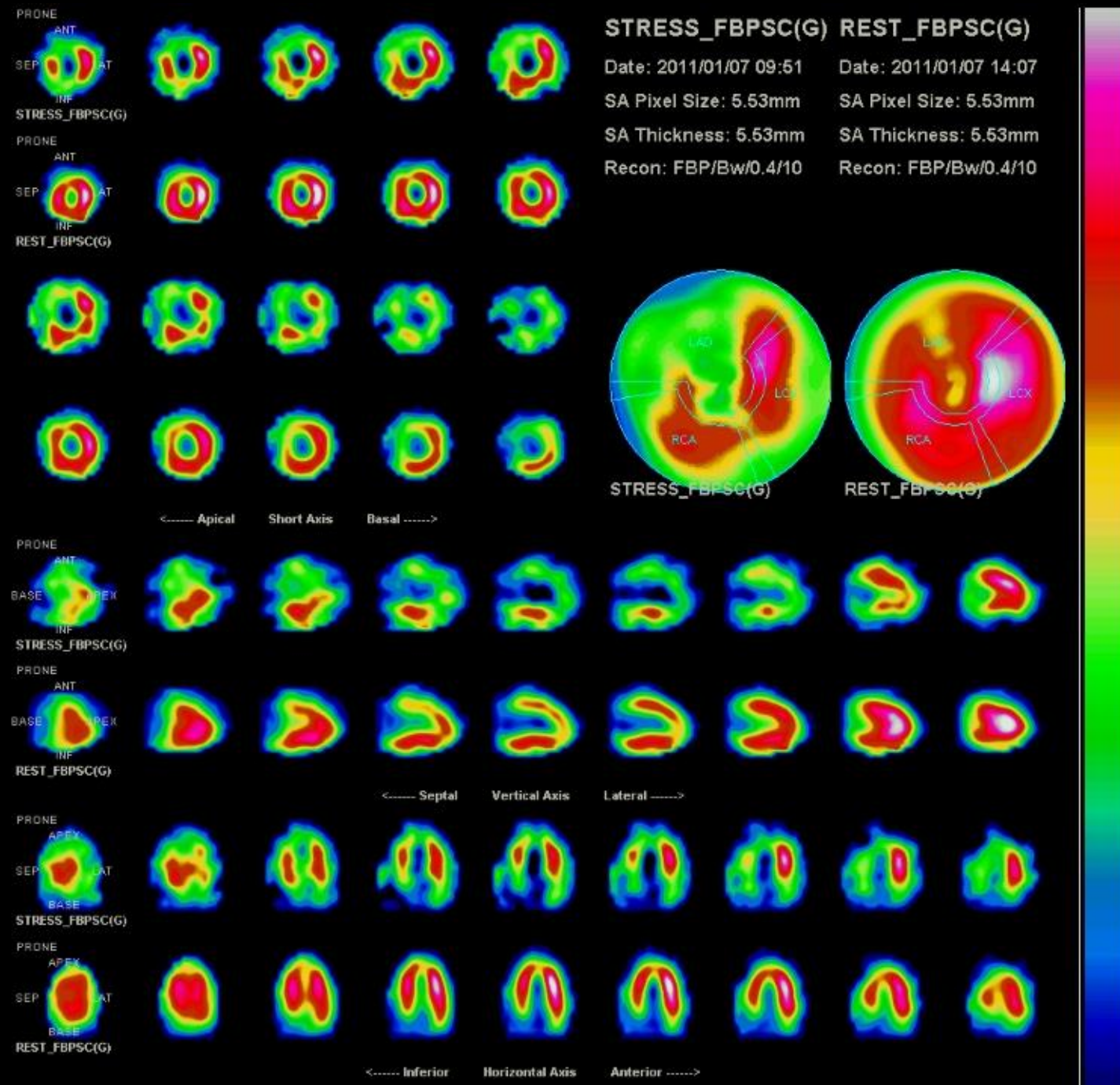


SMS 0 STS 0

Type QGS Stress
 Study MYOCARDE 99mTc
 Dataset STRESS_FBPSC(G)
 Date 2011-10-21 11:02:15
 Volume 14ml [4]
 EDV 65ml [8]
 ESV 14ml [4]
 EF 78%
 Area 64cm² [4]
 Mot Ext 0%, 0cm² [4]
 Thk Ext 0%, 0cm² [4]
 Matrix 64x64 x 23(z) x 8(t)
 Mm/Vox 6.65 x 6.65 x 6.65



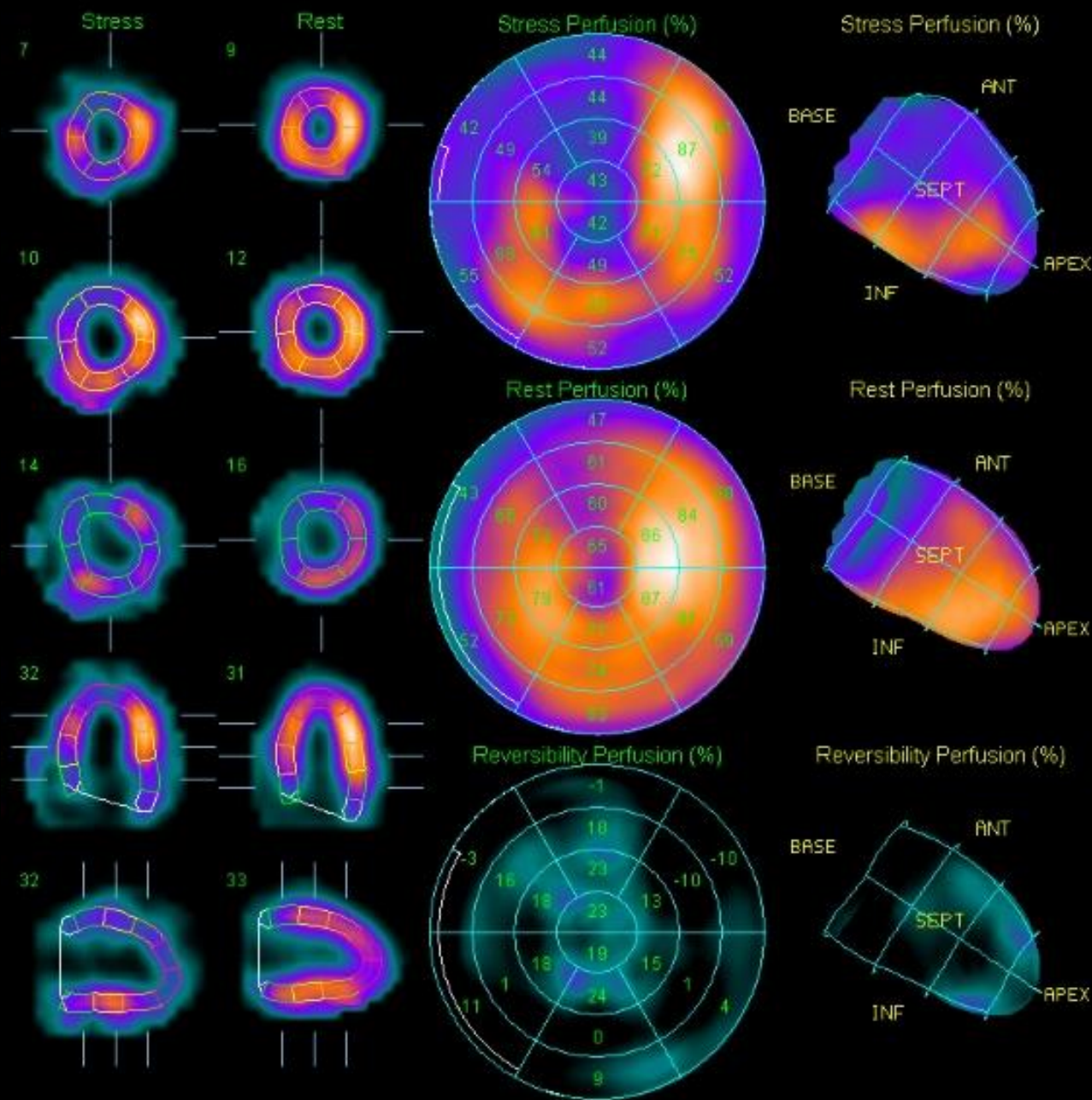
Auto 0 - Grid Accept Reject



Femme, 66
HTA
Athérome
Carotidien et
iliaque

Angor d'effort

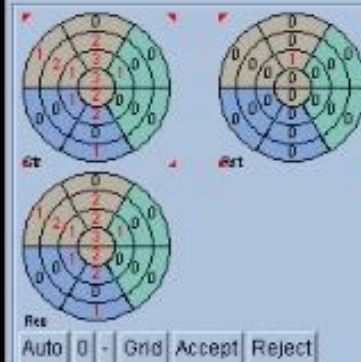
EE mixte
positive
cliniquement
et
électriquement

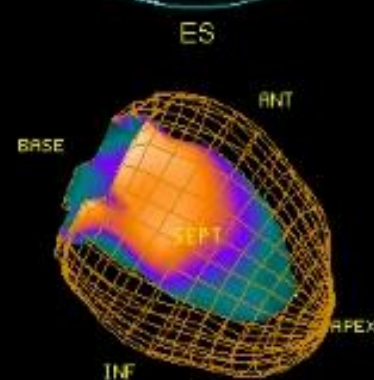
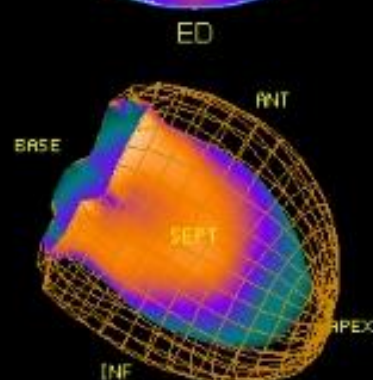
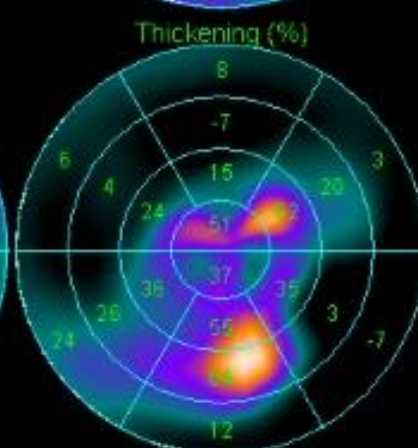
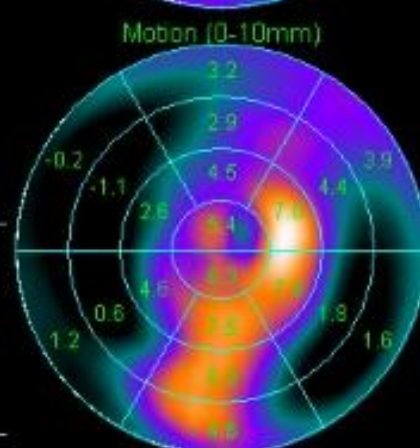
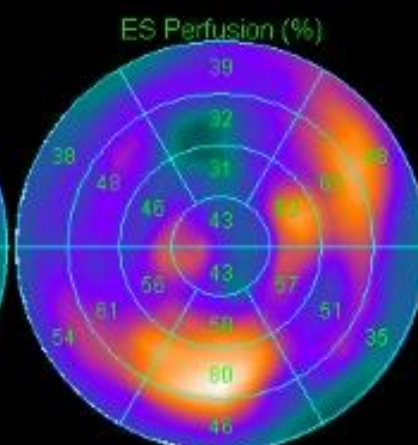
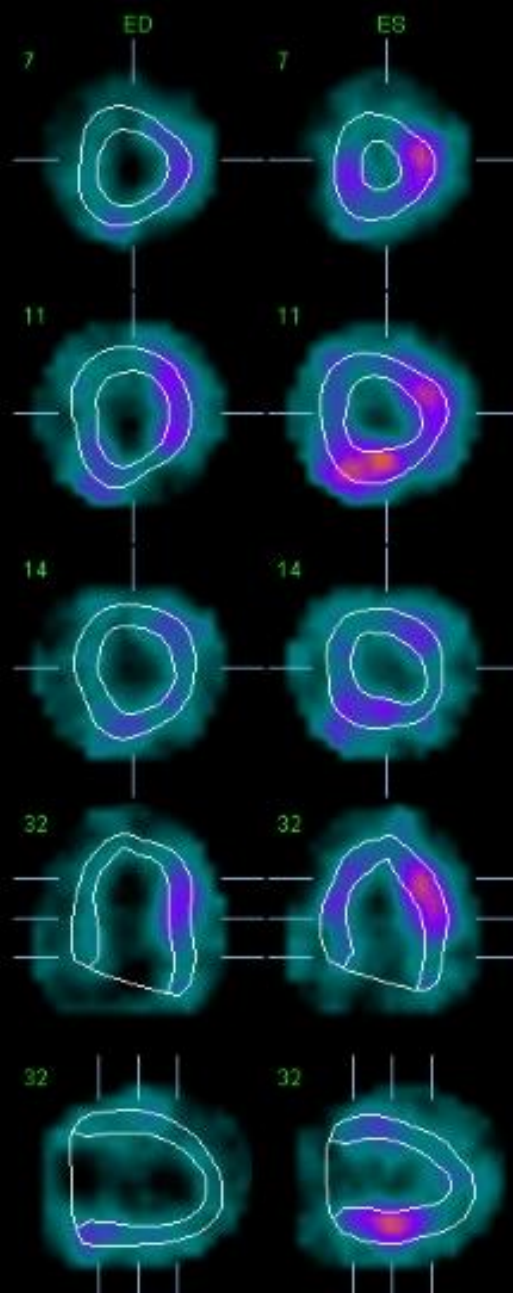


SSS 19 SRS 1 SDS 18

Study MYOCARDE 99mTc
 Dataset STRESS_FBPSC
 Date 2011-01-07 09:51:42
 Volume 71ml
 Area 105cm²
 Defect 31cm²
 Extent 30%

Study MYOCARDE 99mTc
 Dataset REST_FBPSC
 Date 2011-01-07 14:07:41
 Volume 53ml
 Area 95cm²
 Defect 4cm²
 Extent 4%

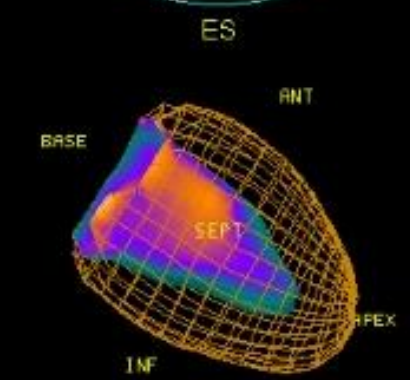
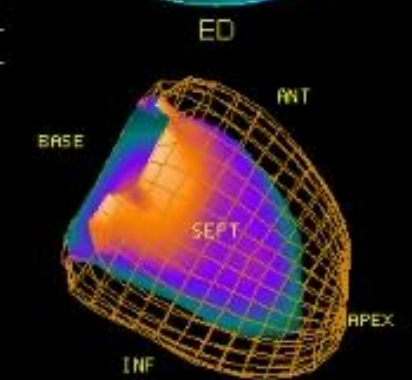
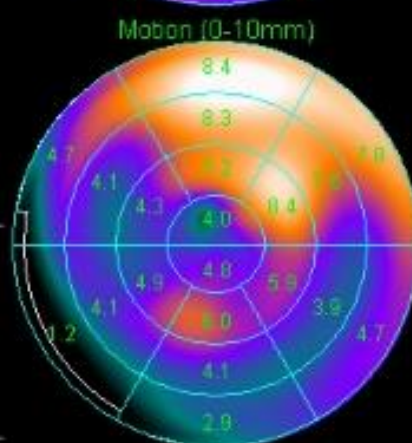
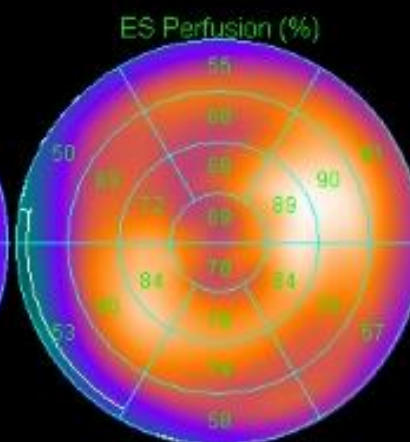
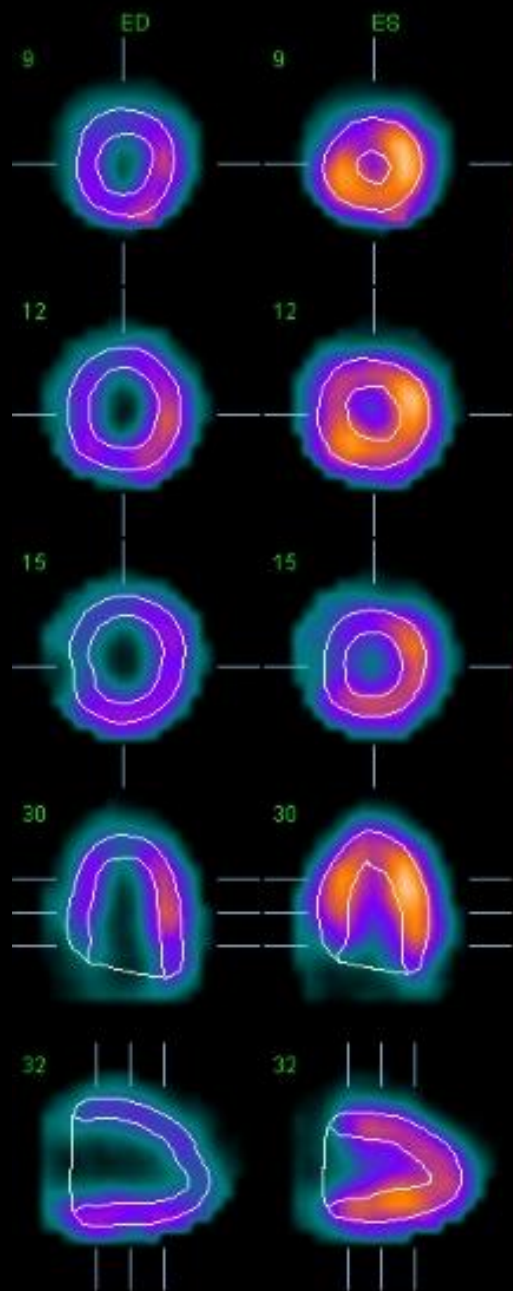




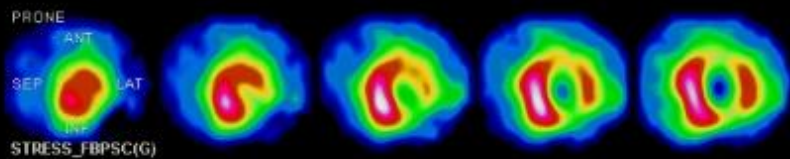
Type	QGS Stress
Study	MYOCARDE 99mTc
Dataset	STRESS_FBPSC(G)
Date	2011-01-07 09:51:42
Volume	58ml [3]
EDV	87ml [8]
ESV	58ml [3]
EF	33%
Area	100cm ² [3]
Mot Ext	57%, 57cm ² [3]
Thk Ext	44%, 44cm ² [3]
Matrix	64x64 x 23(z) x 8(t)
Mm/Vox	5.53 x 5.53 x 5.53



Auto ☐ Grid ☐ Accept ☐ Reject ☐



SMS	9	STS	9
Type	Rest		
Study	MYOCARDE 99mTc		
Dataset	REST_FBPSC(G)		
Date	2011-01-07 14:07:41		
Volume	32ml [4]		
EDV	65ml [8]		
ESV	32ml [4]		
EF	50%		
Area	78cm ² [4]		
Mot Ext	28%, 22cm ² [4]		
Thk Ext	22%, 17cm ² [4]		
Matrix	64x64 x 25(z) x 8(t)		
Mm/Vox	5.53 x 5.53 x 5.53		
Auto 0 - Grid Accept Reject			



STRESS_FBPSC(G)

Date: 2010/12/07 10:52

SA Pixel Size: 6.65mm

SA Thickness: 6.65mm

Recon: FBP/Bw/0.25/5

REST_FBPSC(G)

Date: 2010/12/07 13:57

SA Pixel Size: 6.65mm

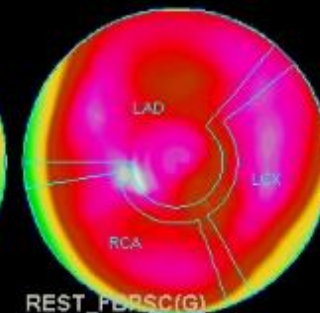
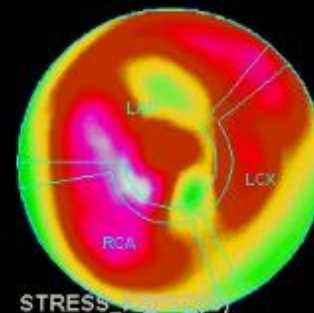
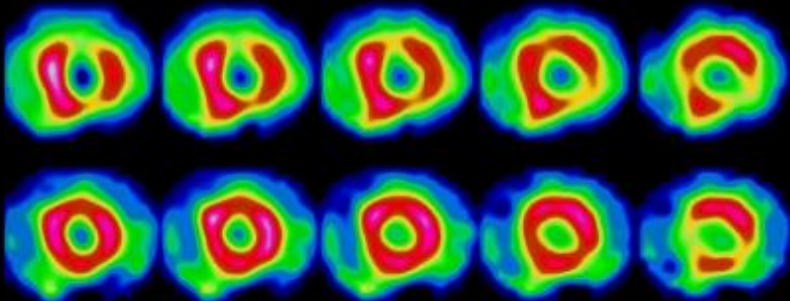
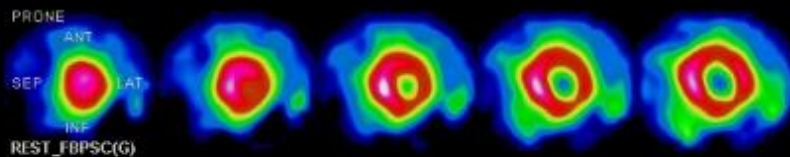
SA Thickness: 6.65mm

Recon: FBP/Bw/0.4/10

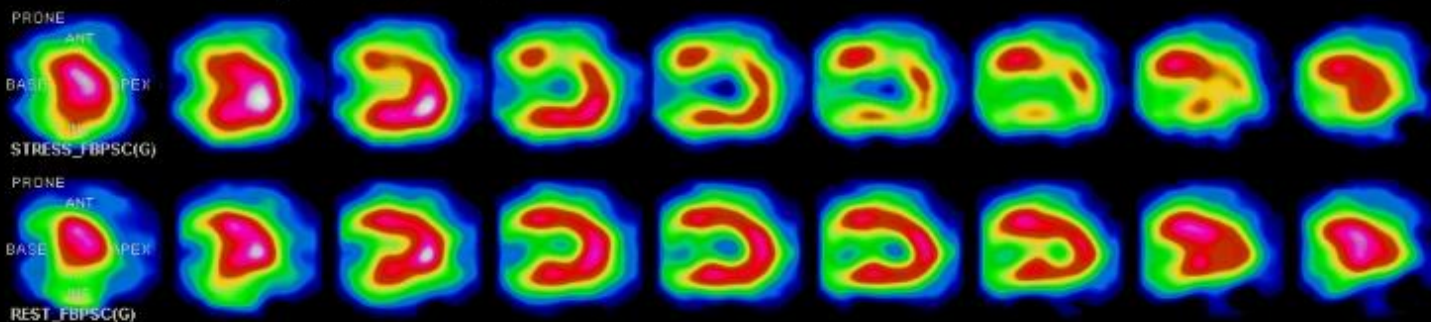
Homme, 71
Dialysé
CP ischémique

Prégreffe renale

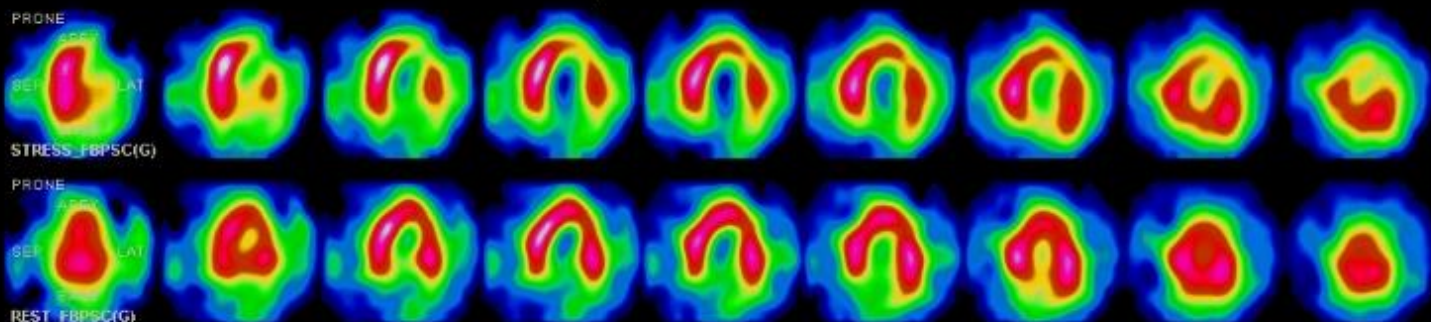
EE Pharma
négative
cliniquement
et
électriquement



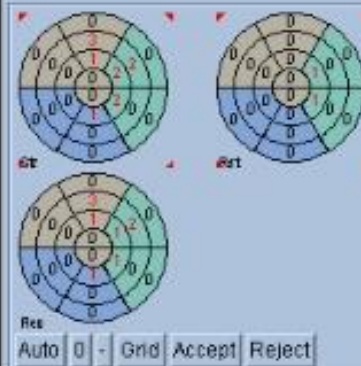
<----- Apical Short Axis Basal ----->

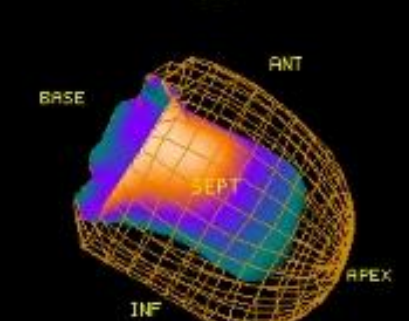
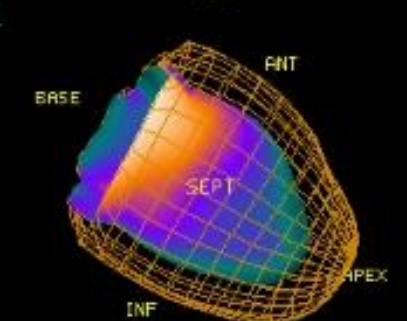
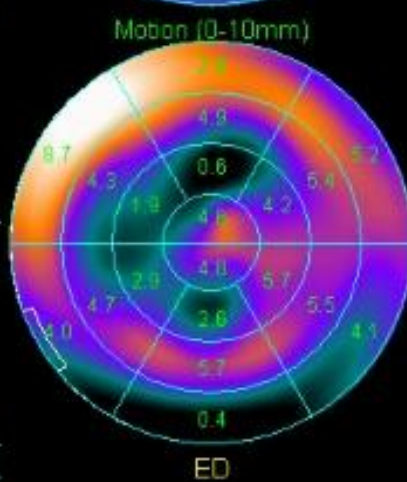
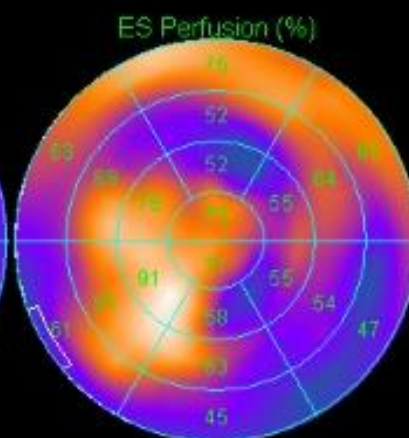
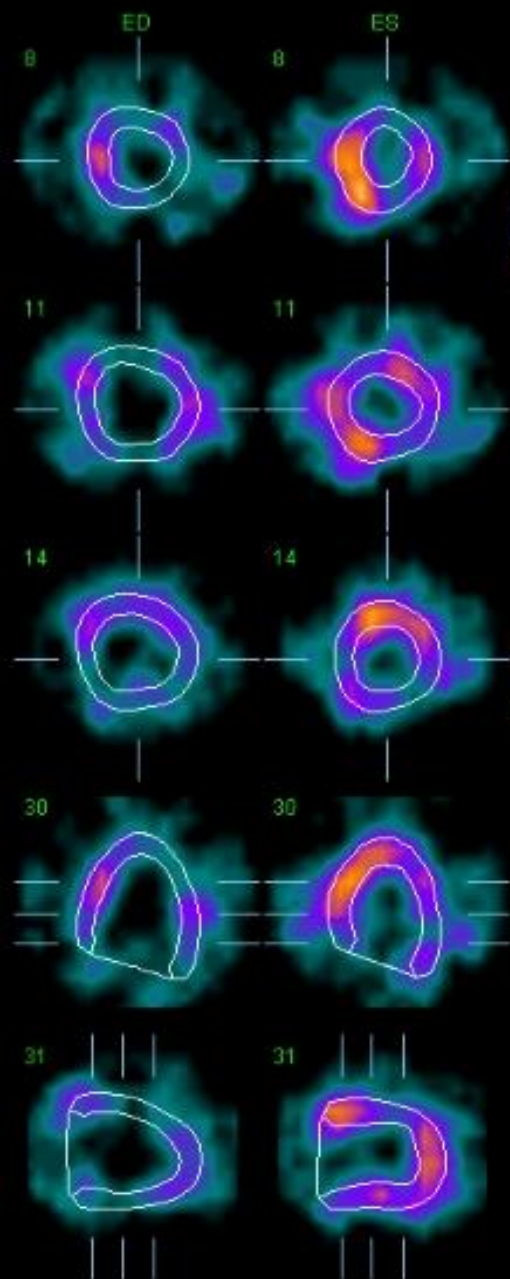


<----- Septal Vertical Axis Lateral ----->



<----- Inferior Horizontal Axis Anterior ----->

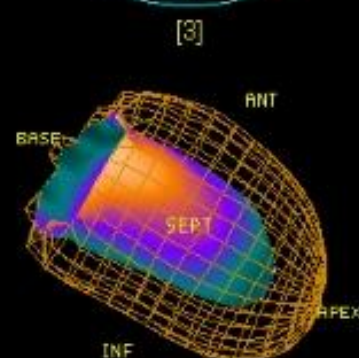
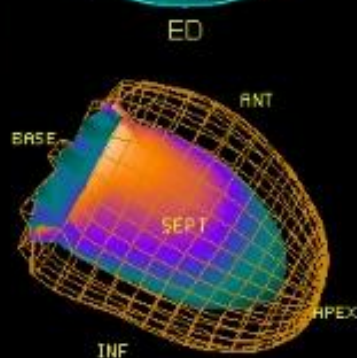
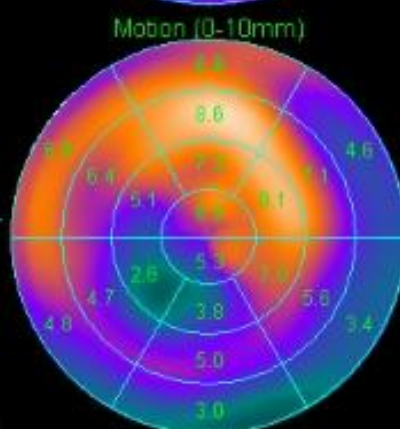
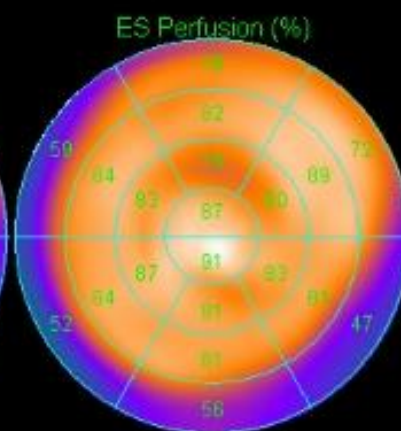
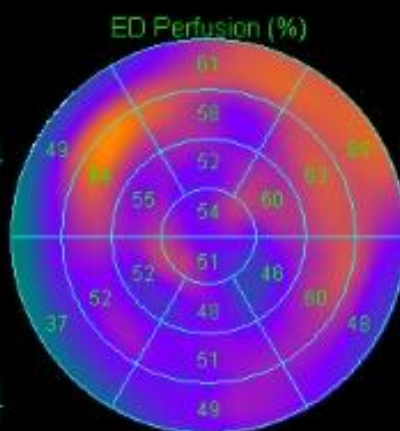
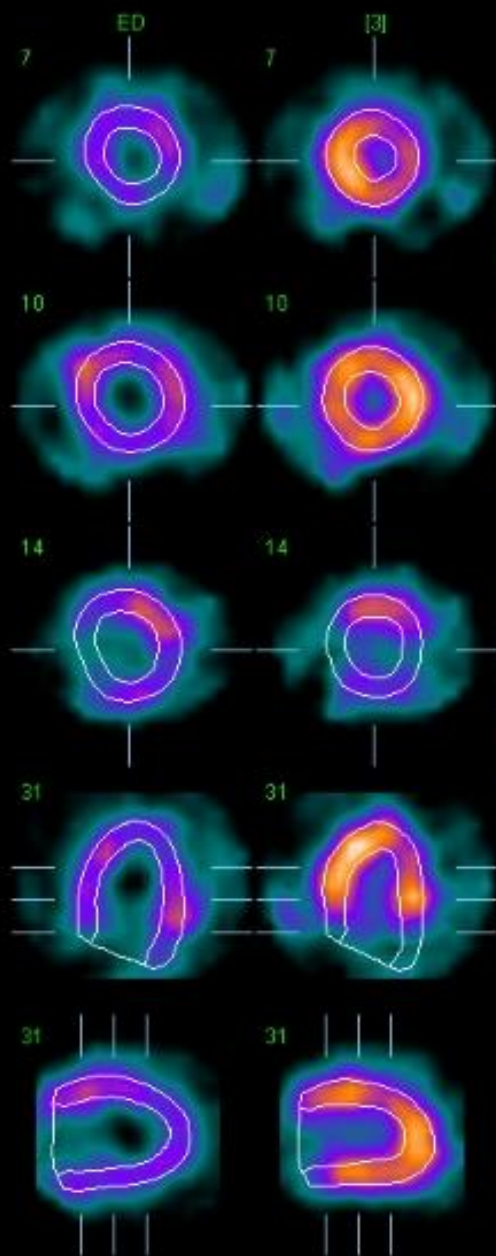




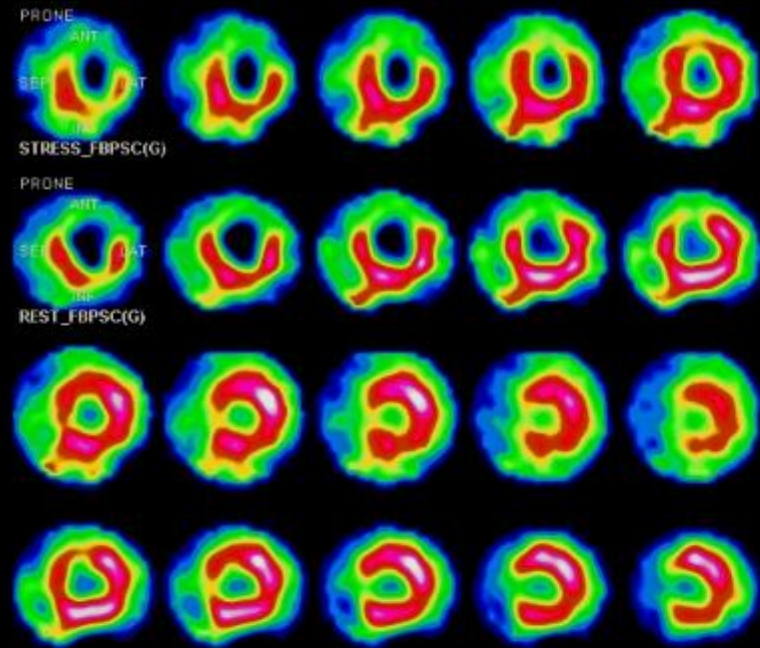
Type	QGS Stress
Study	MYOCARDE 99mTc
Dataset	STRESS_FBPSC(G)
Date	2010-12-07 10:52:11
Volume	75ml [6]
EDV	120ml [8]
ESV	75ml [6]
EF	37%
Area	115cm ² [6]
Mot Ext	44%, 50cm ² [6]
Thk Ext	45%, 51cm ² [6]
Matrix	64x64 x 21(z) x 8(t)
Mm/Vol	6.65 x 6.65 x 6.65

SMo	STh
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Auto	0	-	Grid	Accept	Reject
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Type	Rest
Study	MYOCARDE 99mTc
Dataset	REST_FBPSC(G)
Date	2010-12-07 13:57:29
Volume	63ml [3]
EDV	93ml [8]
ESV	47ml [5]
EF	49%
Area	117cm ² [3]
Mot Ext	28%, 32cm ² [3]
Thk Ext	22%, 26cm ² [3]
Matrix	64x64 x 19(z) x 8(t)
Mm/Vox	6.65 x 6.65 x 6.65



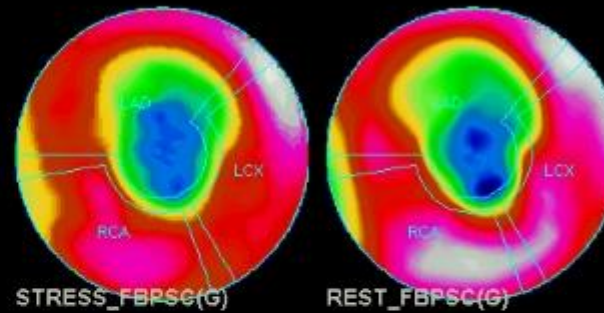
STRESS_FBPSC(G) REST_FBPSC(G)

Date: 2011/02/16 10:00 Date: 2011/02/16 13:16

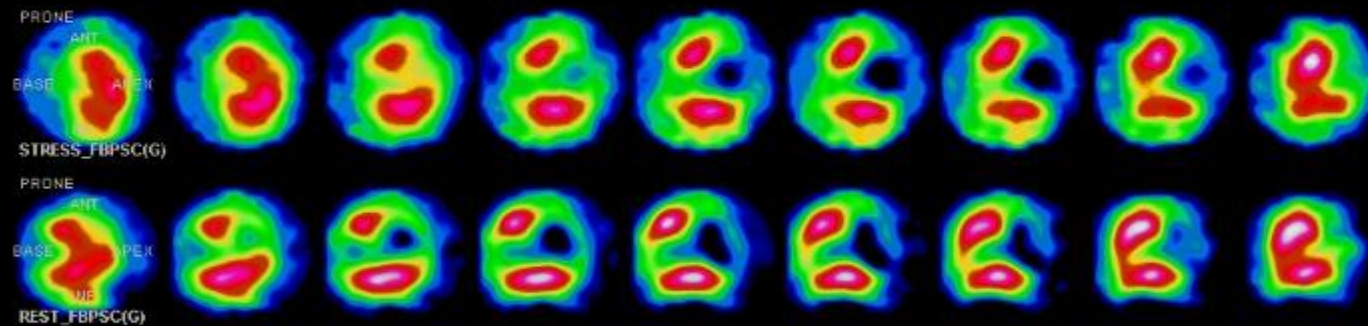
SA Pixel Size: 5.53mm SA Pixel Size: 5.53mm

SA Thickness: 5.53mm SA Thickness: 5.53mm

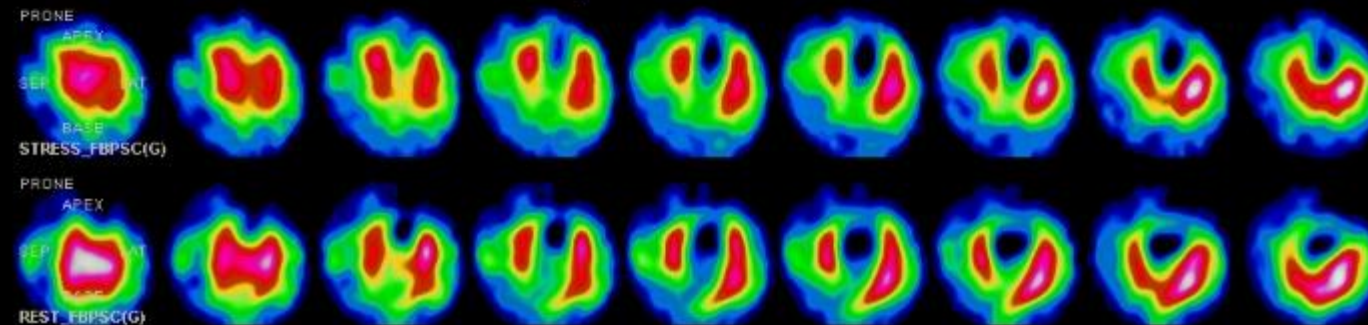
Recon: FBP/Bw/0.25/5 Recon: FBP/Bw/0.4/10



<----- Apical Short Axis Basal ----->



<----- Septal Vertical Axis Lateral ----->

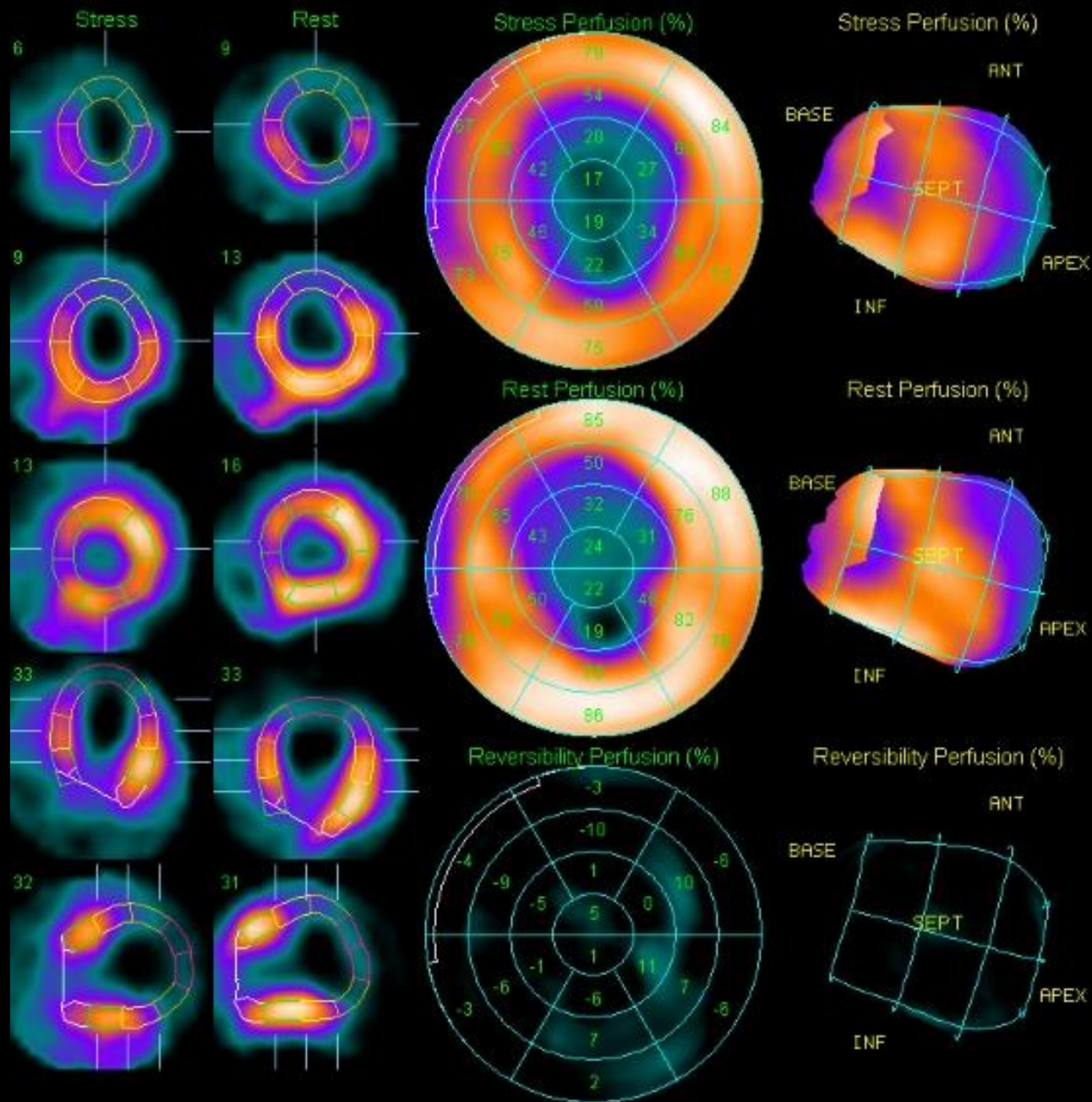


<----- Inferior Horizontal Axis Anterior ----->

Homme, 87
IDM

Pré-op

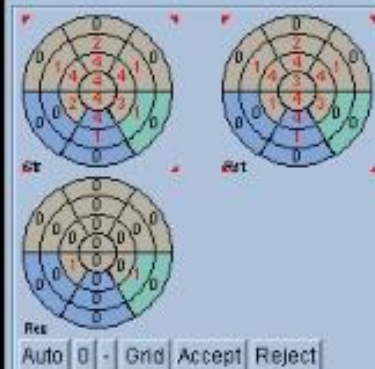
EE Pharma
négative
cliniquement
et
électriquement

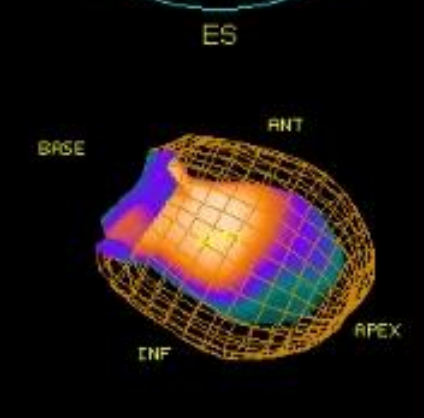
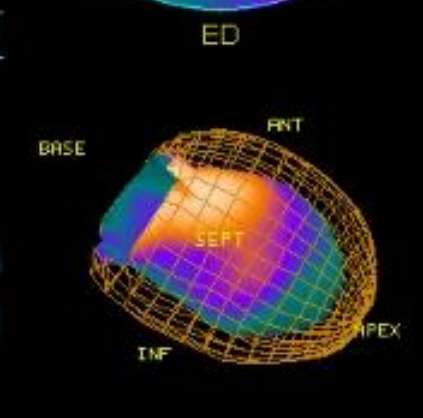
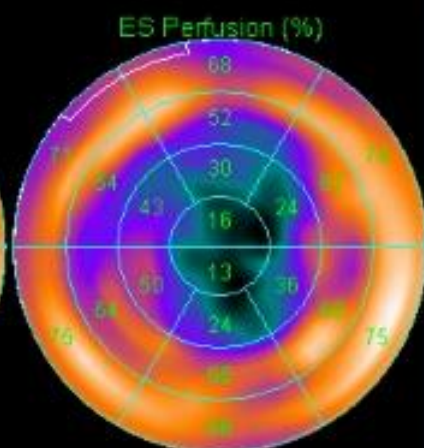
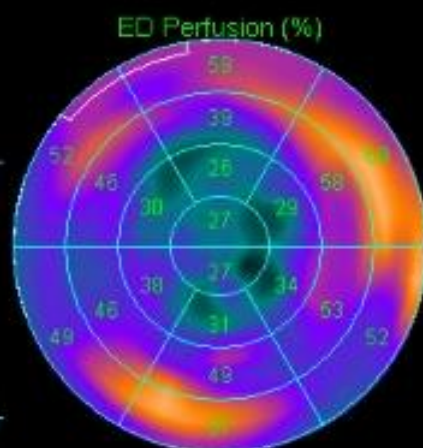
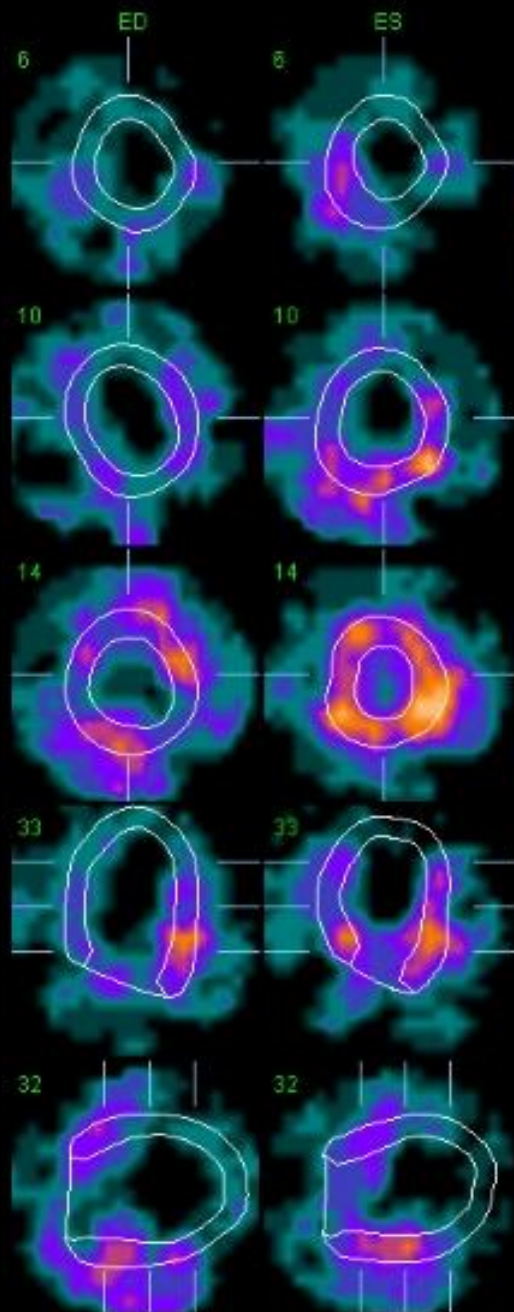


SSS 32 SRS 29 SDS 2

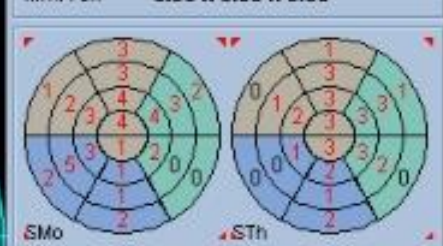
Study MYOCARDE 99mTc
 Dataset STRESS_FBPSC
 Date 2011-02-16 10:00:01
 Volume 90ml
 Area 126cm²
 Defect 53cm²
 Extent 42%

Study MYOCARDE 99mTc
 Dataset REST_FBPSC
 Date 2011-02-16 13:16:28
 Volume 111ml
 Area 140cm²
 Defect 58cm²
 Extent 41%

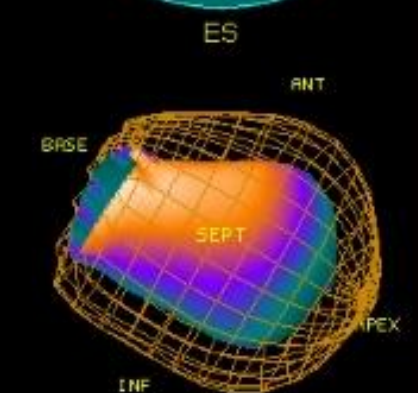
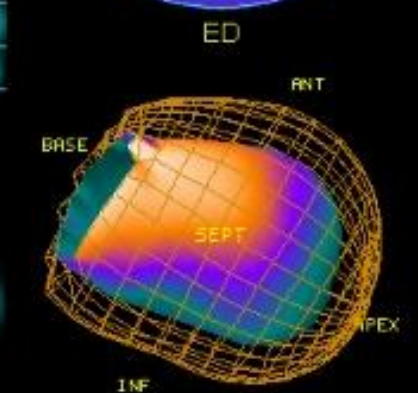
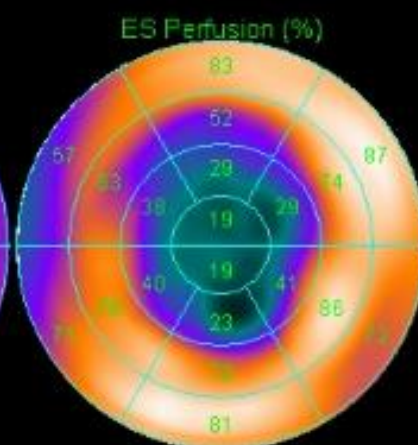
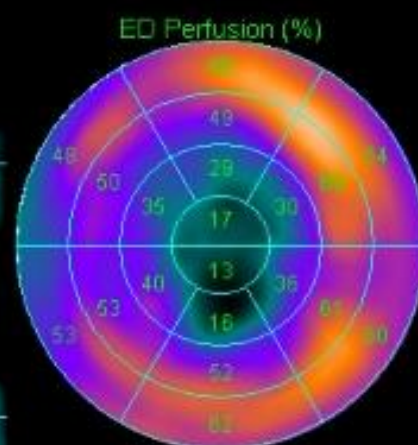
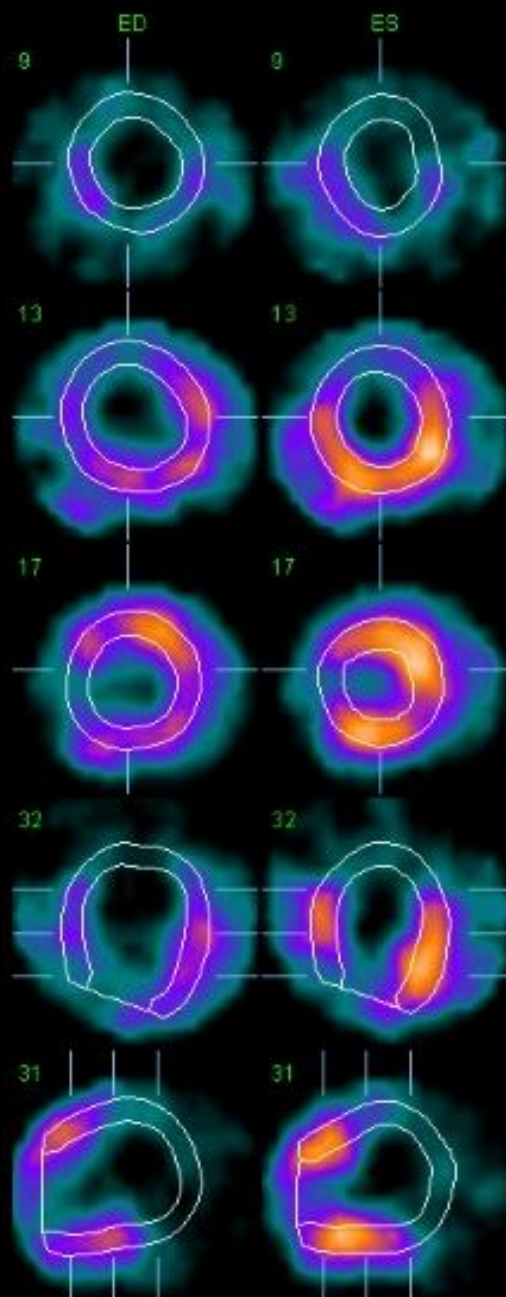




Type	QGS Stress
Study	MYOCARDE 99mTc
Dataset	STRESS_FBSC(G)
Date	2011-02-16 10:00:01
Volume	91ml [4]
EDV	122ml [8]
ESV	91ml [4]
EF	25%
Area	132cm ² [4]
Mot Ext	70%, 93cm ² [4]
Thk Ext	55%, 72cm ² [4]
Matrix	64x64 x 25(z) x 8(t)
Mm/Vox	5.53 x 5.53 x 5.53



Auto ☐ - Grid ☐ Accept ☐ Reject ☐

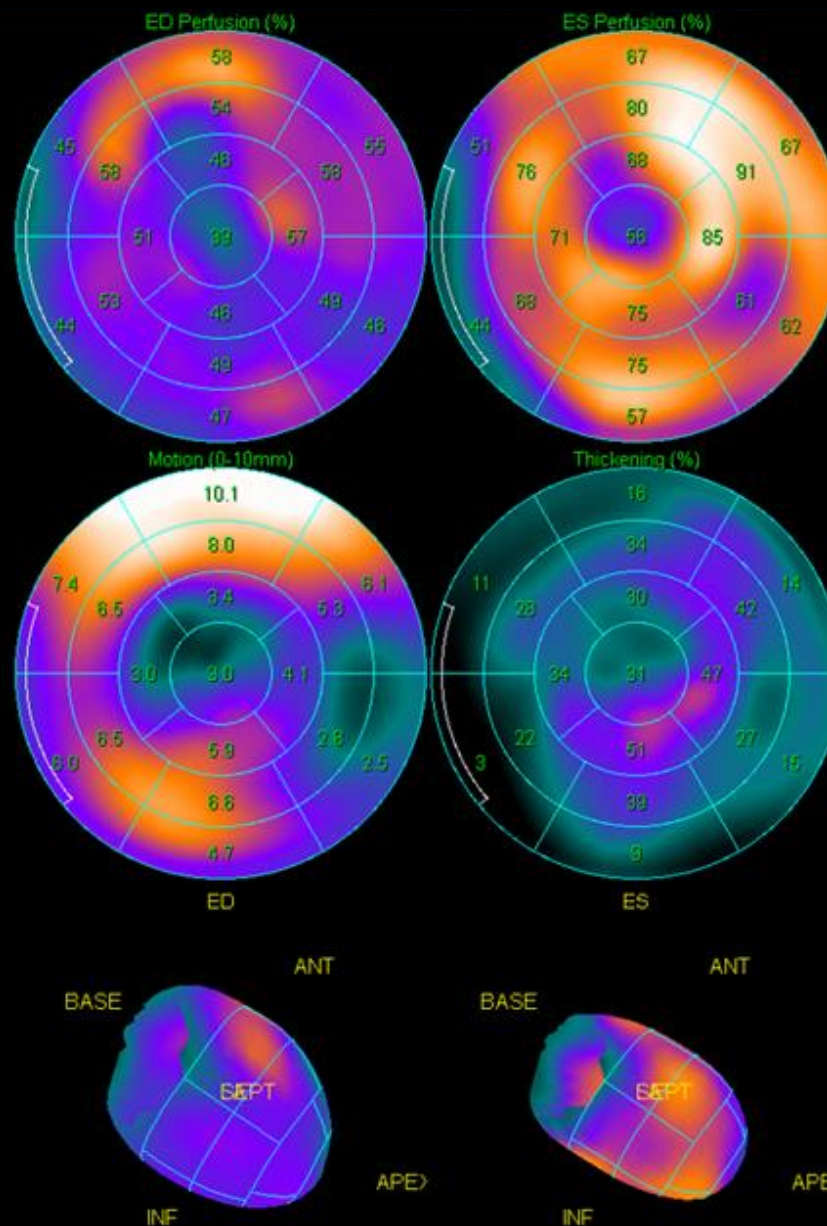
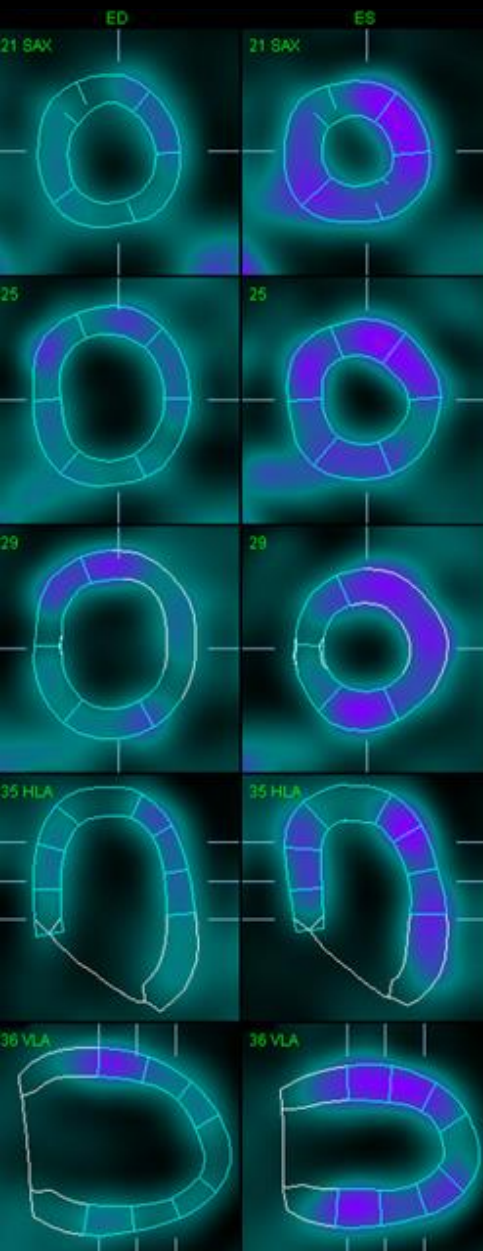


Type	Rest
Study	MYOCARDE 99mTc
Dataset	REST_FBPSC(G)
Date	2011-02-16 13:16:28
Volume	88ml [4]
EDV	125ml [8]
ESV	88ml [4]
EF	30%
Area	133cm ² [4]
Mot Ext	64%, 85cm ² [4]
Thk Ext	53%, 71cm ² [4]
Matrix	64x64 x 25(z) x 8(t)
Mm/Vox	5.53 x 5.53 x 5.53

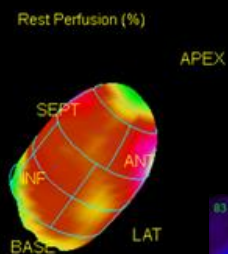
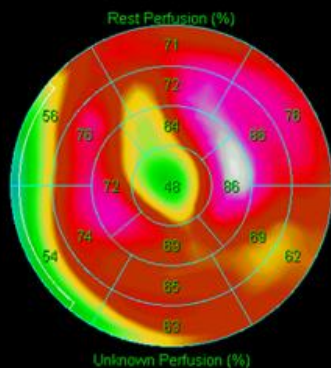
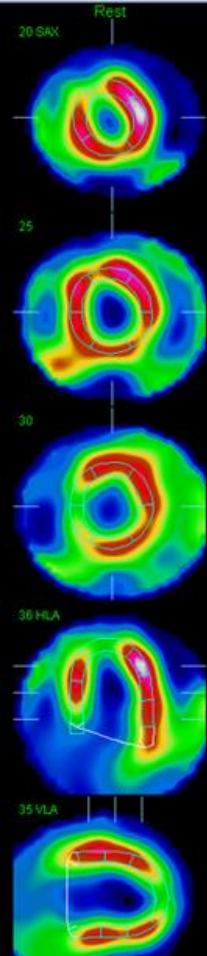


Auto ☐ - Grid ☐ Accept ☐ Reject ☐

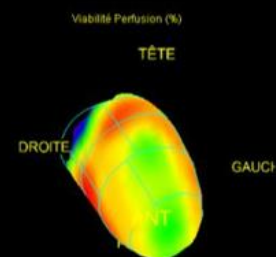
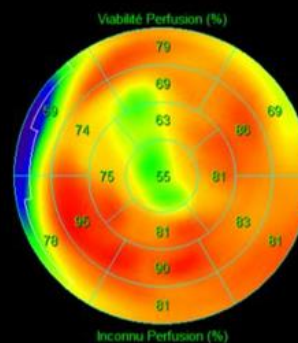
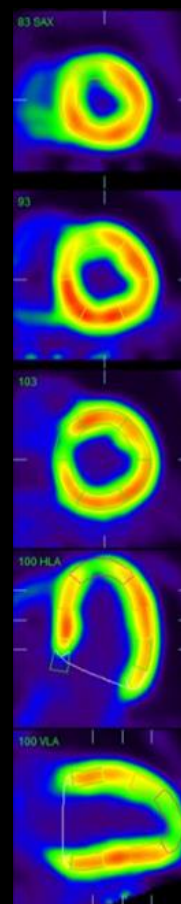
Homme 76 ans
Occlusion
Chronique IVA.
Revascularisation ?



FE = 64%
ESV=60 mL



^{99m}Tc -TF SPECT Repos

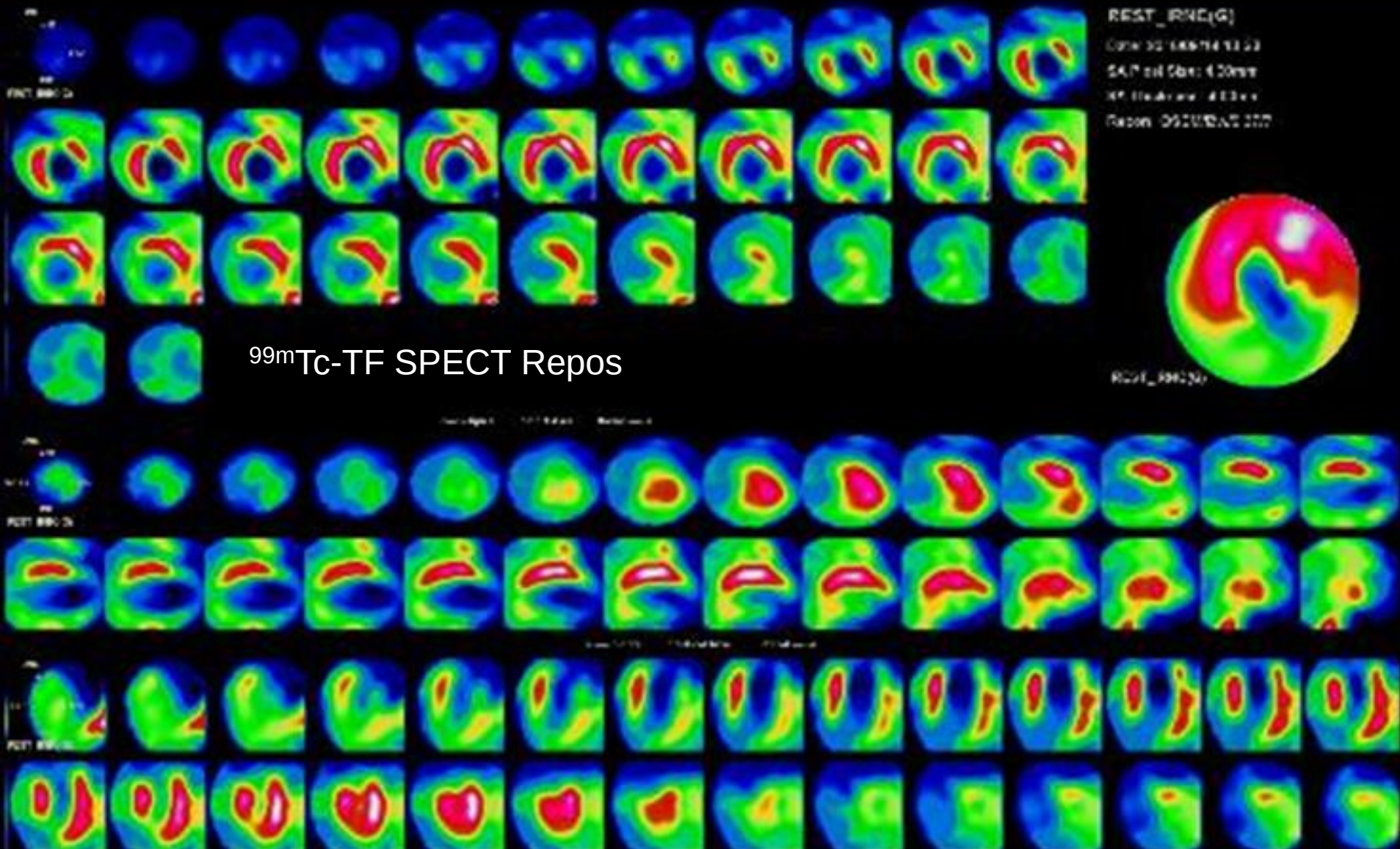


^{18}F FDG TEP Repos

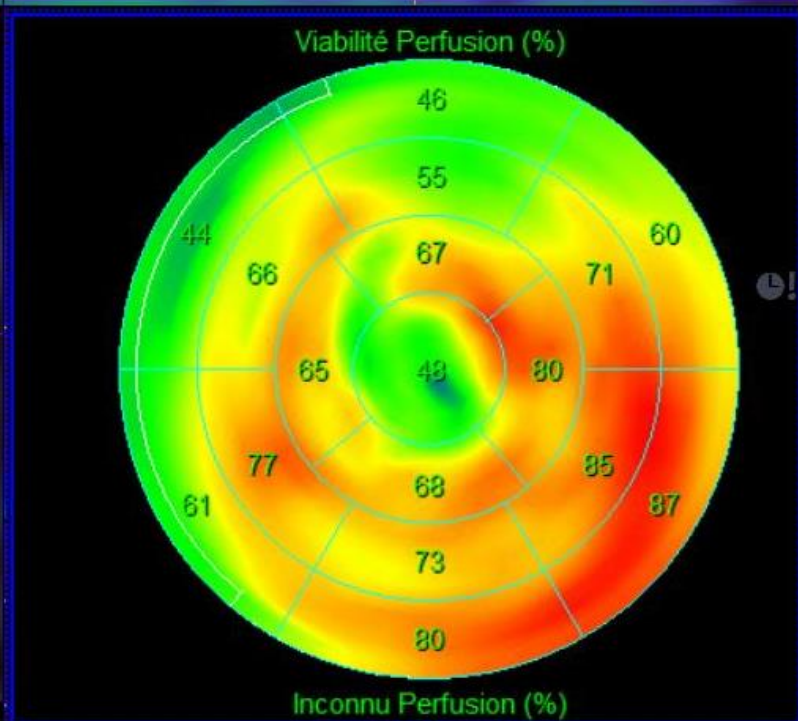
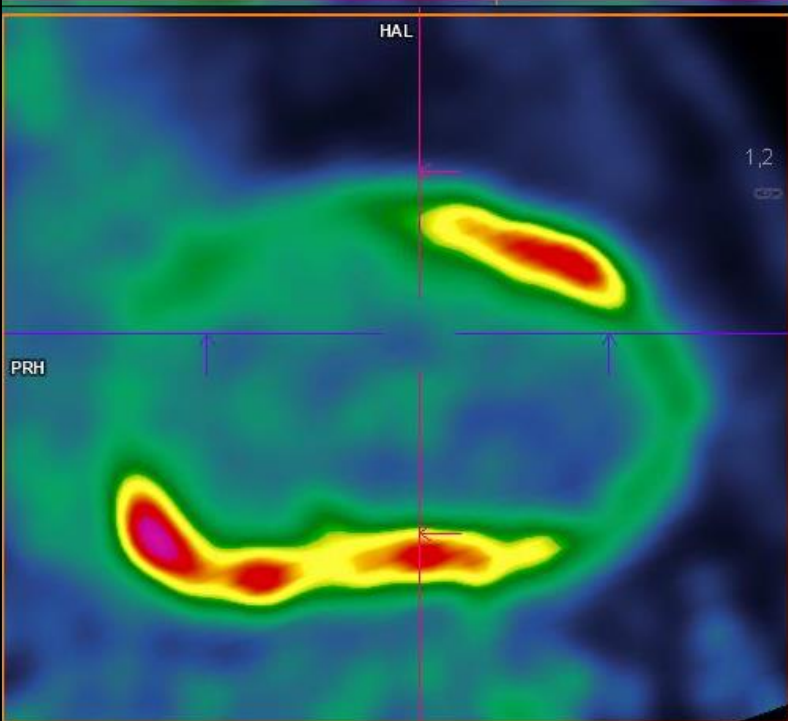
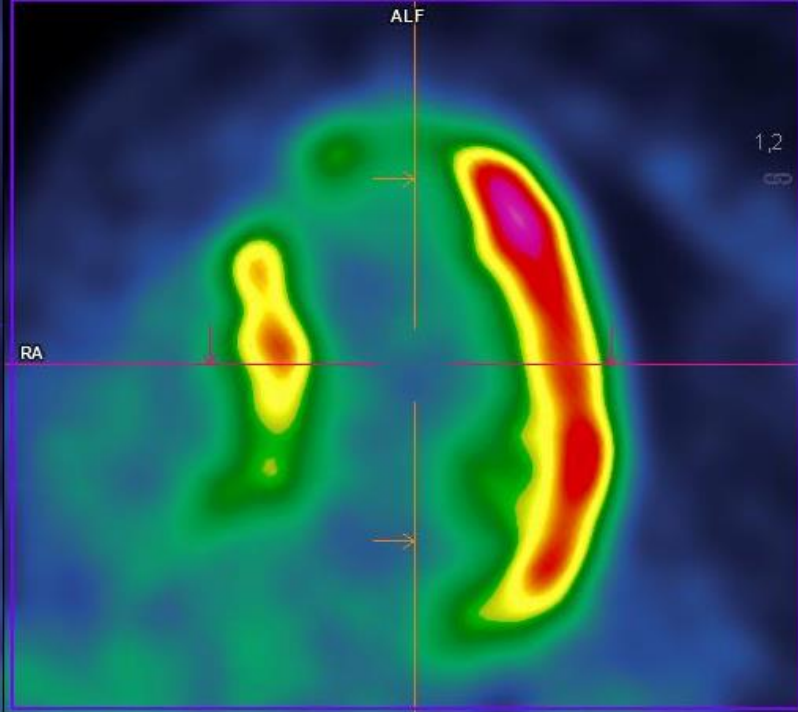
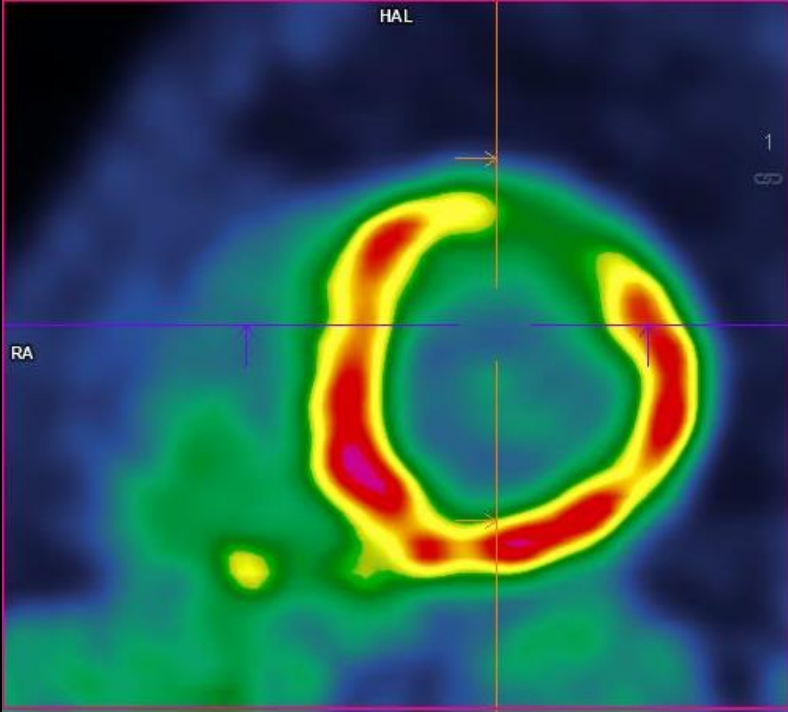
Cas clinique n°7

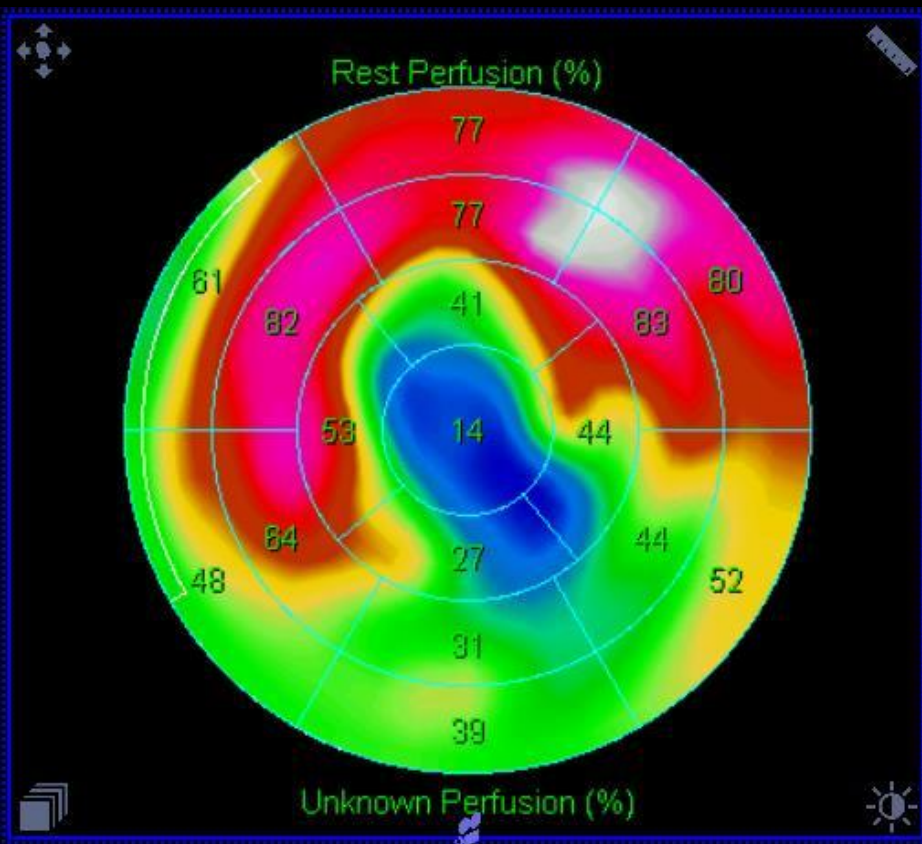
- ? Indication de revascularisation chez un homme de 49 ans.
- Occlusion chronique:
 - Cx proximale
 - 1° segment CD
 - 2° segment IVA
- Sténose 1° marginale et 1° diagonale

Homme, 49 ans. Occlusion chronique Cx proximale + CD1 + IVA2; Sténose Mg1 + Diag1
Viabilité ?

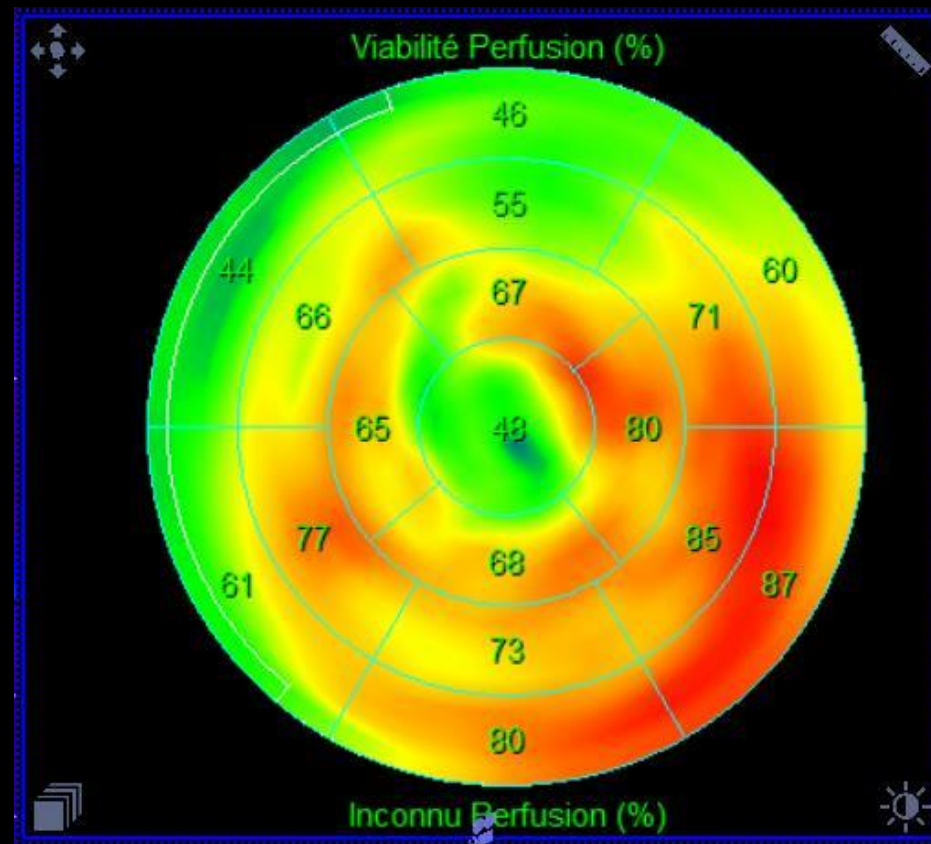


TEP
 ^{18}F FDG





^{99m}Tc -TF SPECT Repos



^{18}F FDG TEP Repos

Scintigraphie pulmonaire de perfusion

Bilan préopératoire

Homme, 70
Néo LSD

Pré-op



DT

FACE ANT

- OPG D1-Tc-99mLP

24-Oct-2011 14:37

O.A.G

- POST PERF-Tc-99

24-Oct-2011 14:26

PROFIL G

- OPD PERF-Tc-99m

24-Oct-2011 14:29

O.P.G

- P.D1 PERF-Tc-99

24-Oct-2011 14:37

G

FACE POST

- OAD D2-Tc-99mRA

24-Oct-2011 14:37

O.P.DT

DT

-

PROFIL DT

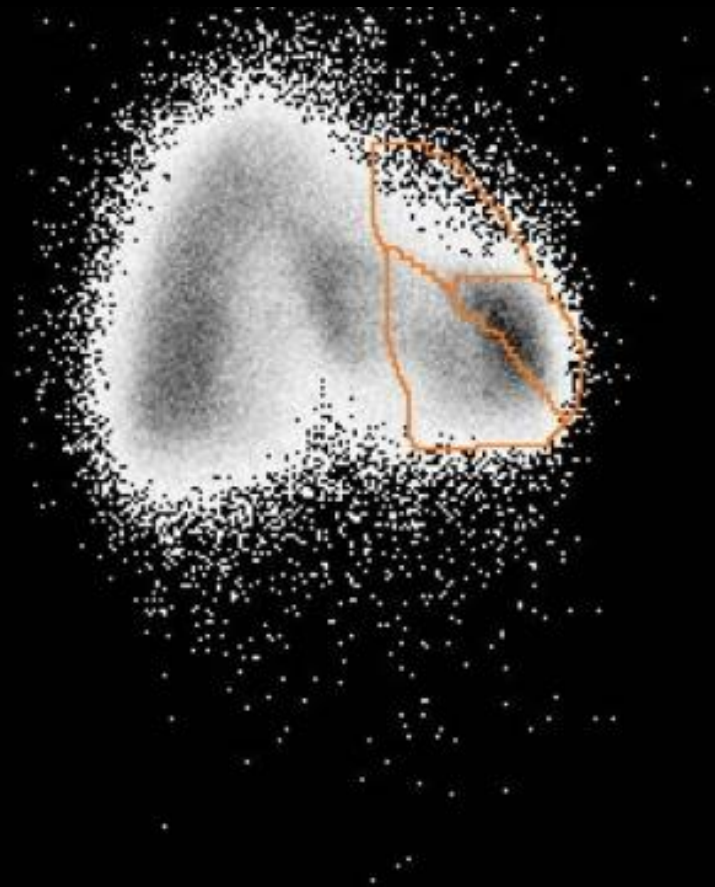
DT

O.A.DT

SCINTIGRAPHIE PULMONAIRE
DE PERFUSION

600 KCP/S

54 S



GAUCHE : Sup. = 30.9% Inf. = 42.4% Ling. = 9.5% PG = 82.8



Seg.



DROIT : Sup. = 1.5% Inf. = 9.9% Med. = 5.7% PD = 17.2%

Scintigraphie pulmonaire de perfusion

Recherche de shunt A-V
intrapulmonaire

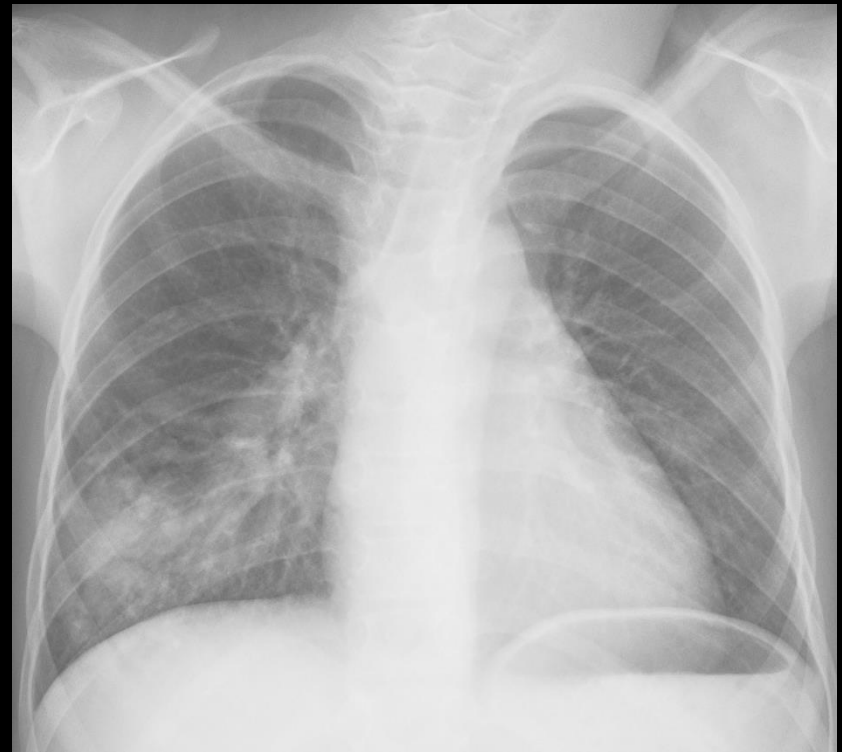
Cas clinique

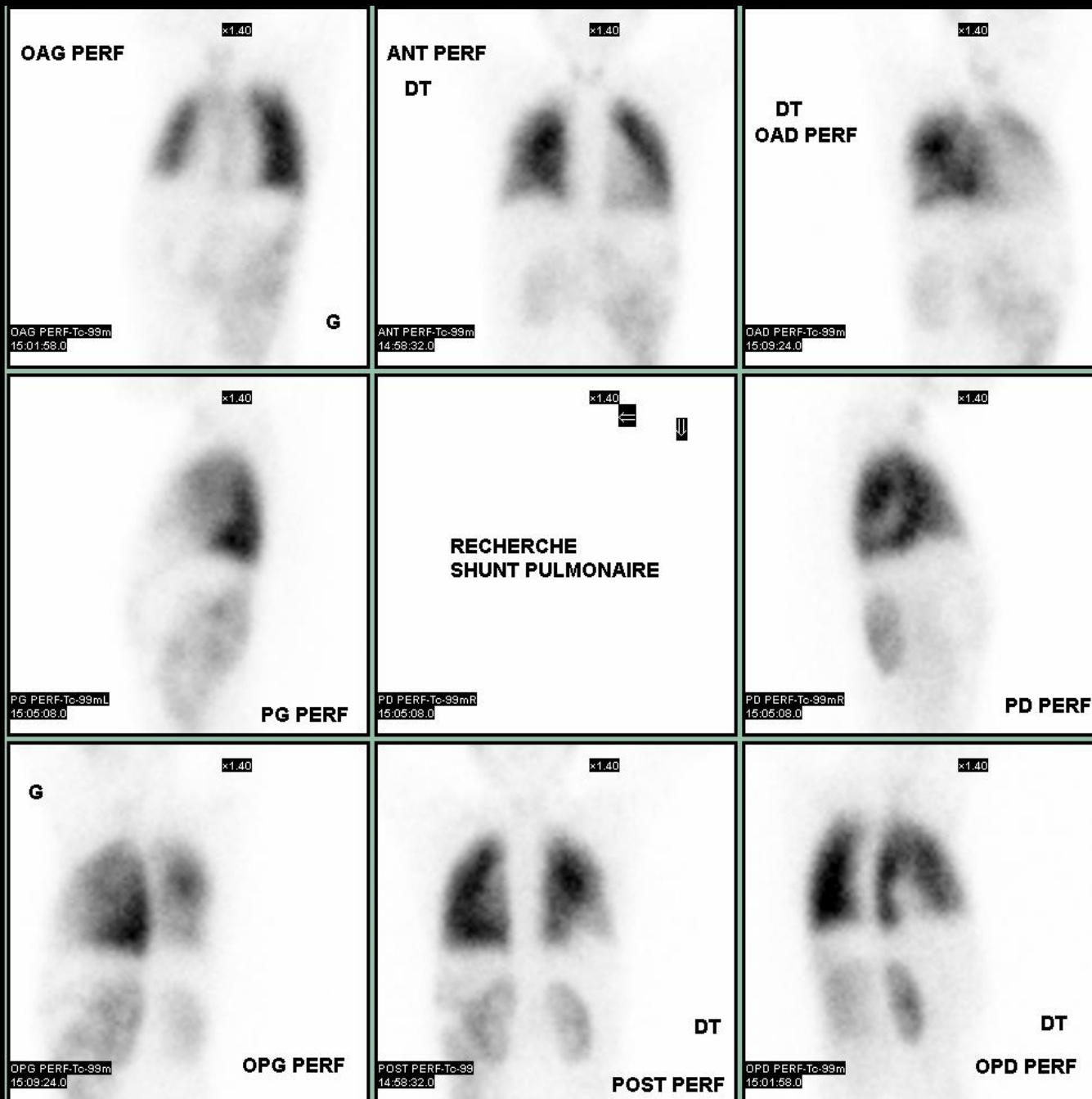
Fillette de 9 ans

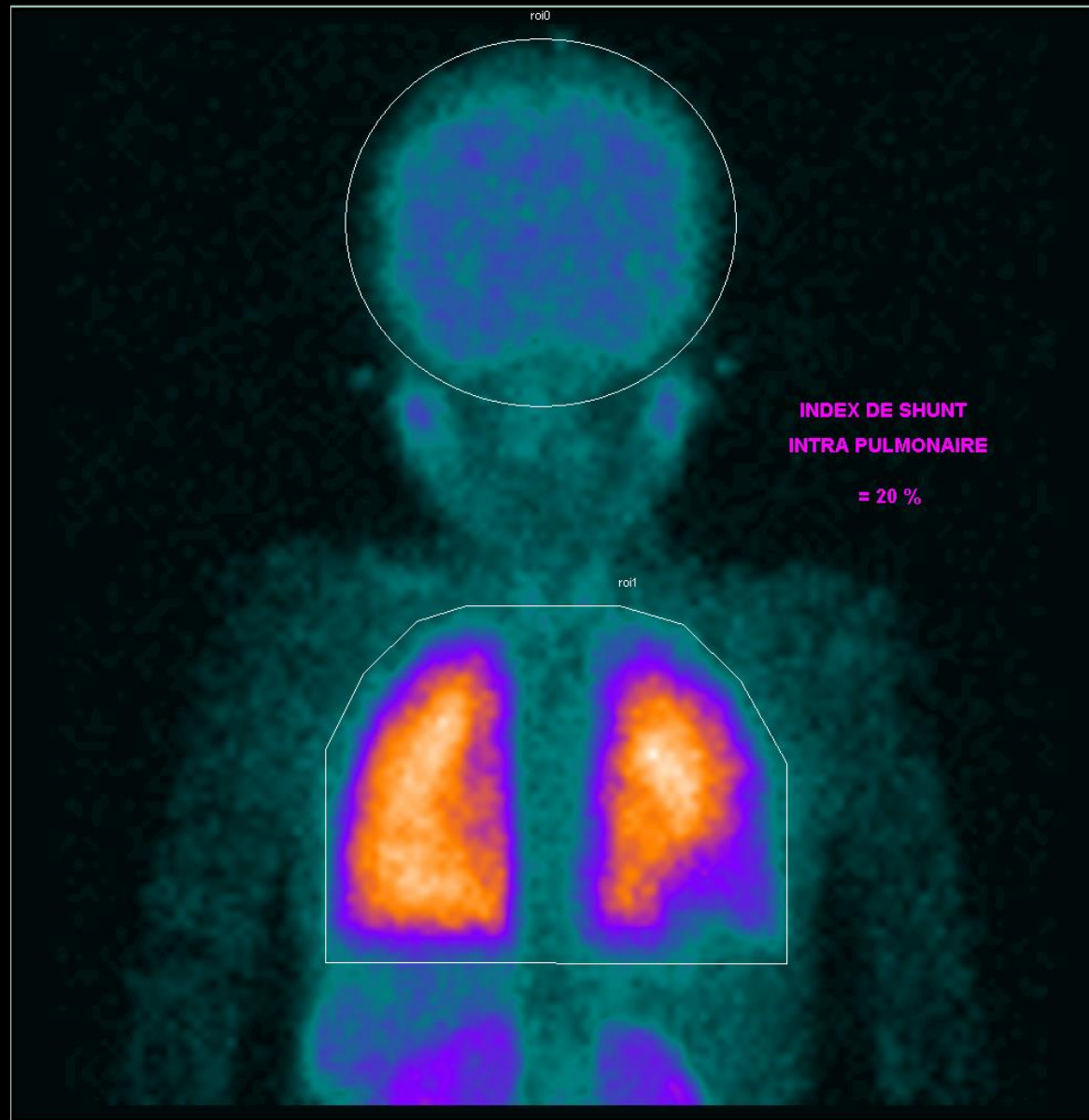
Exploration d'une *dyspnée* et d'une *cyanose*.

Radiographie thorax: opacité LID.

Echo cardiaque normale.









Scintigraphie pulmonaire de perfusion

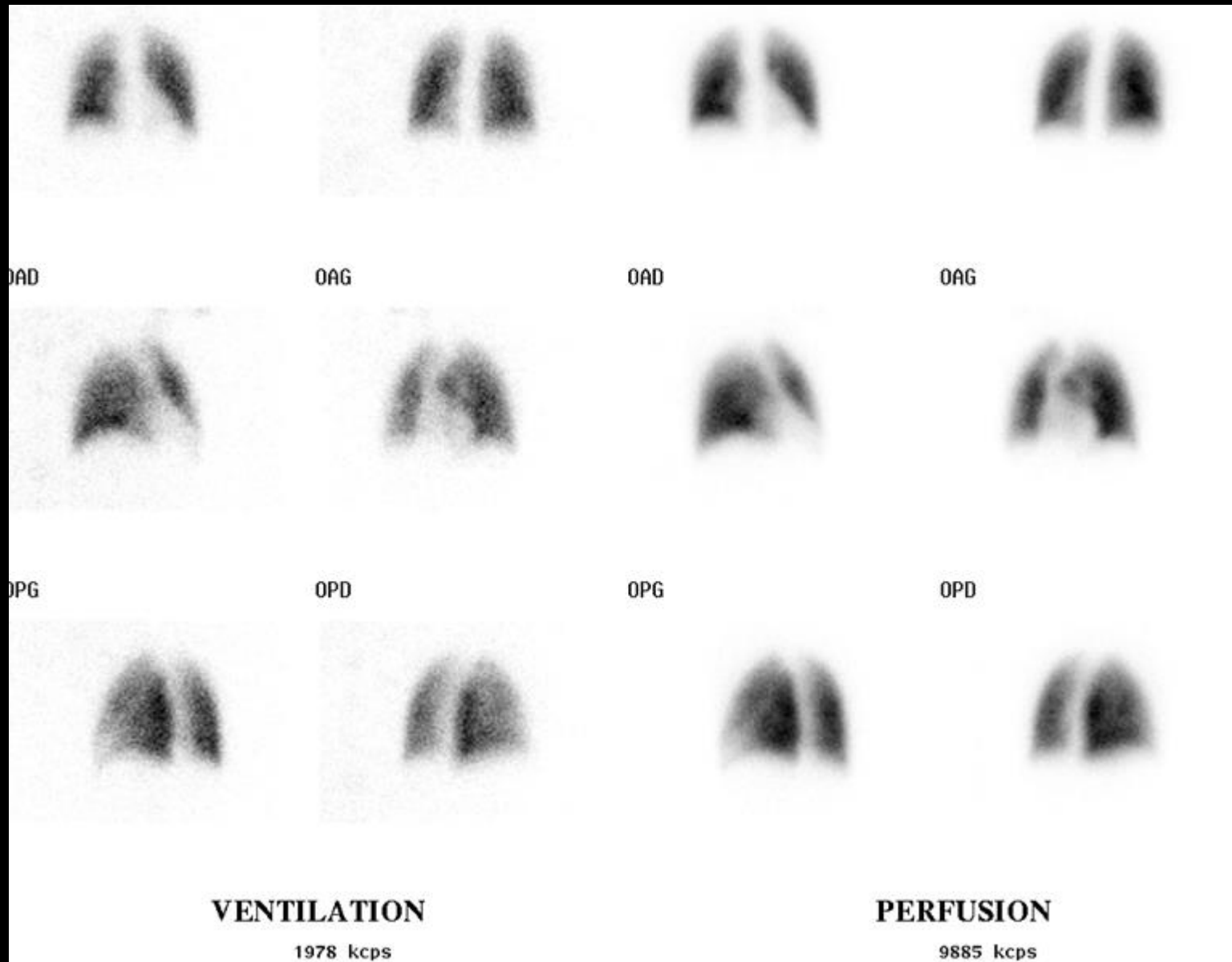
Recherche d'embolie pulmonaire

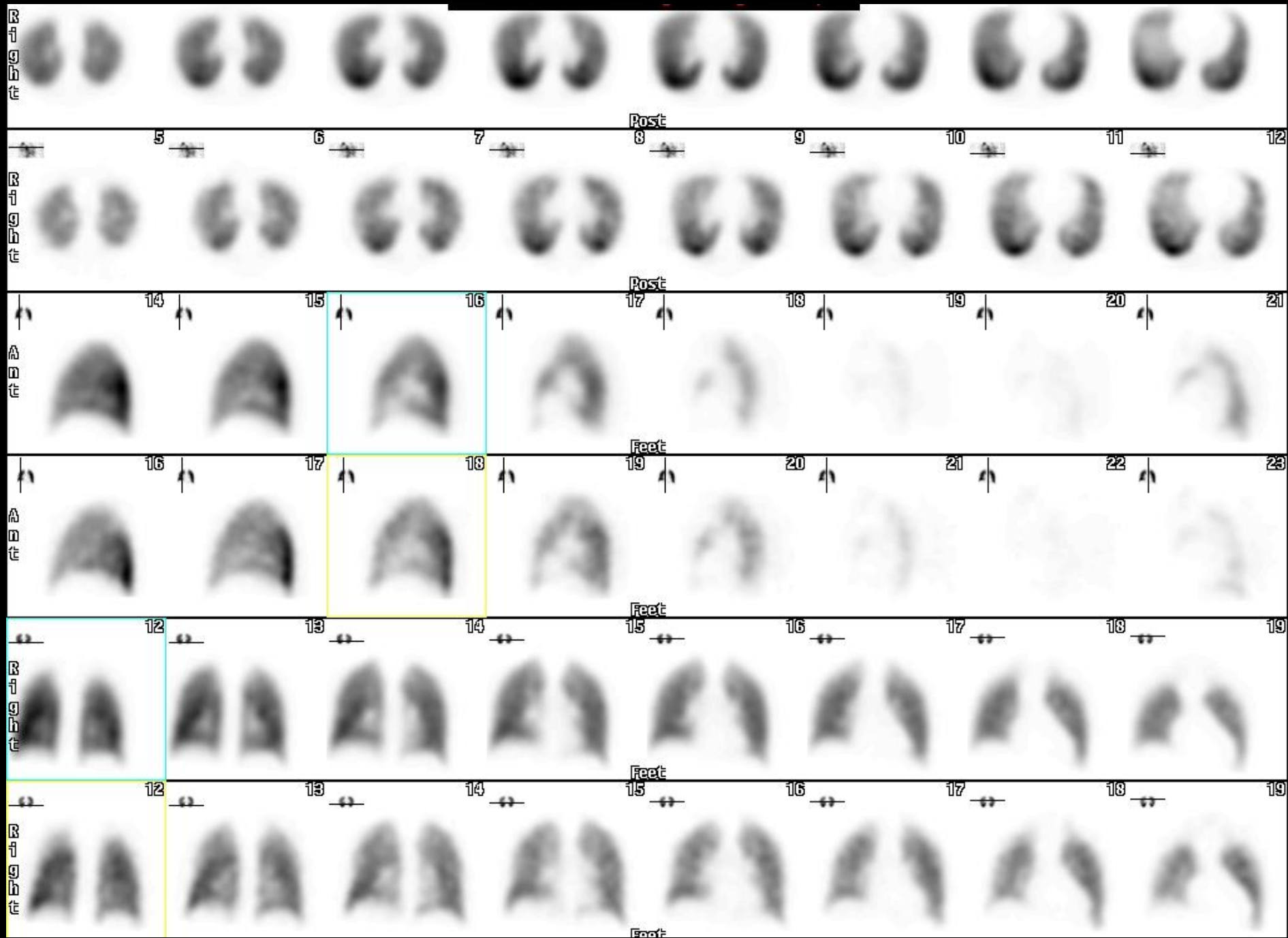
Thrombus : obstruction d'une artère pulmonaire

Dic d'urgence = TTT Urgent (anticoagulant)

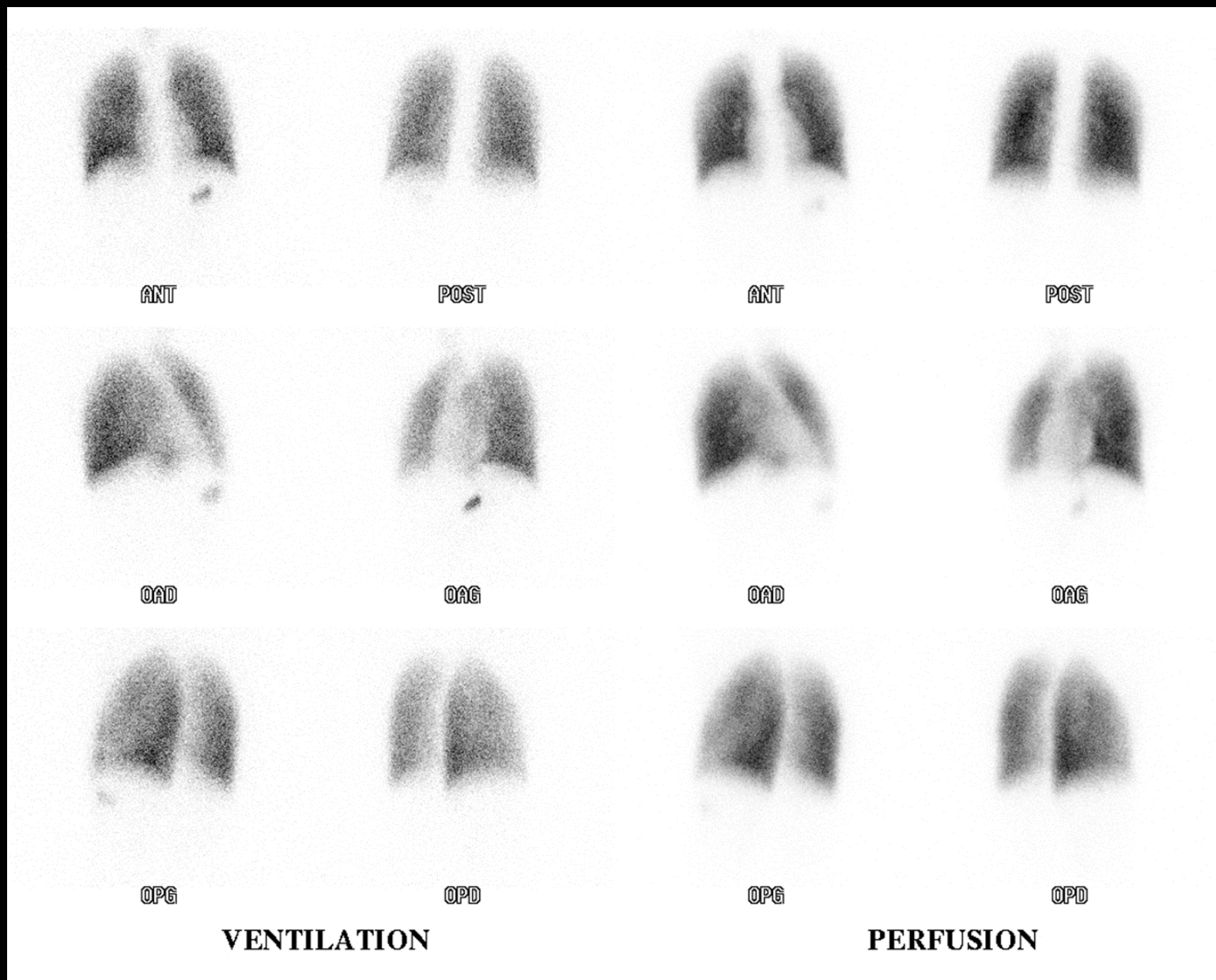
Récidive et Décès

(1) JH 33 ans

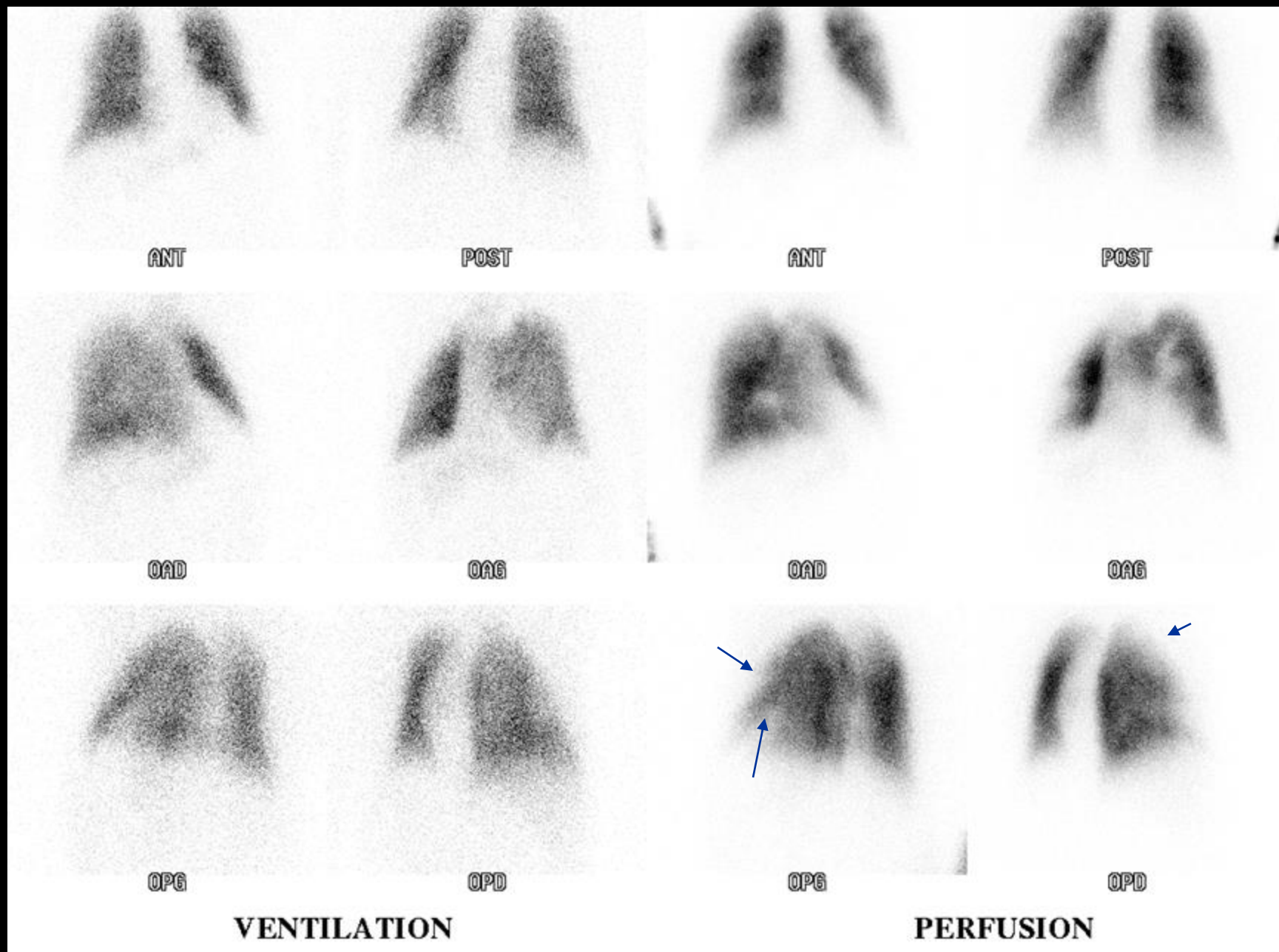




enceinte de 6 mois
Dyspnée brutale, anxiété
Douleur thoracique
Pas d'atcd
Pas de phlébite



H 86 ans, IRC, ATCD EP.
Dyspnée depuis un mois



TOMOGRAPHIE PULMONAIRE

9

10

11

12

13

14

15

16

17

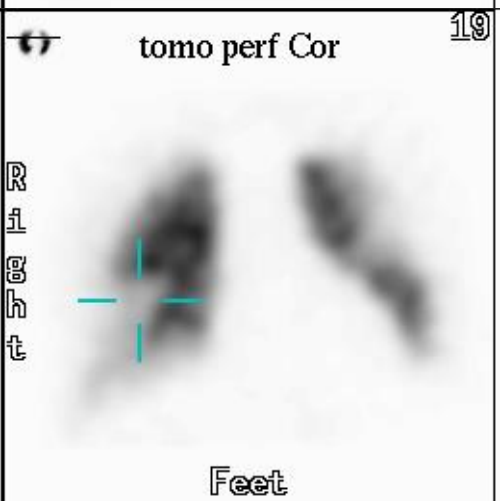
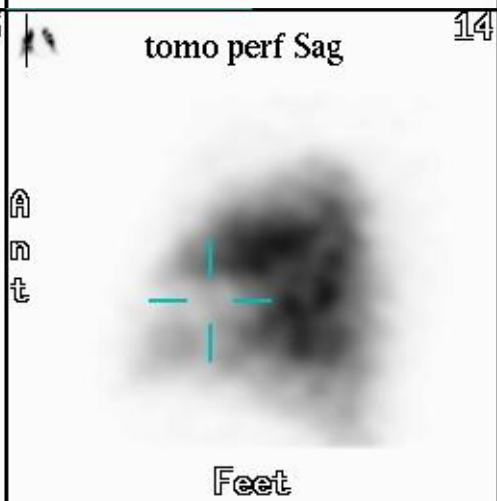
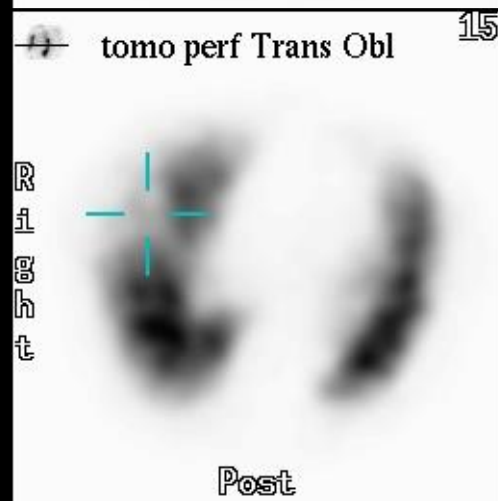
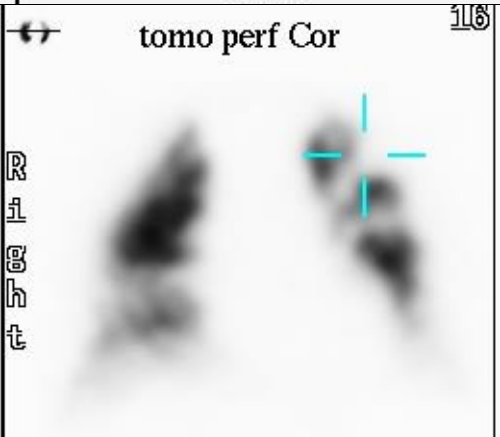
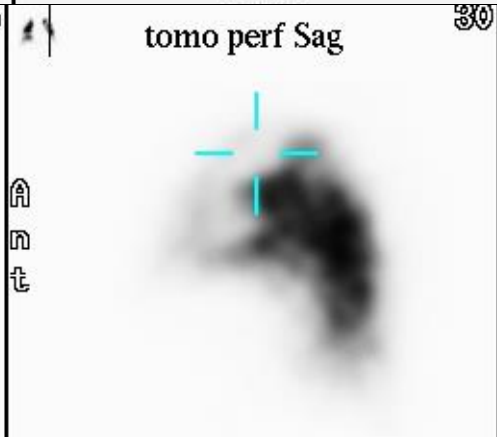
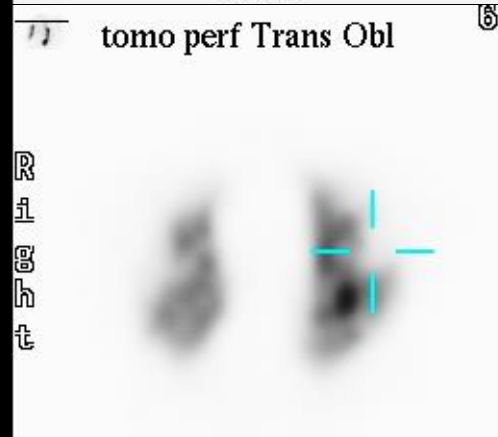
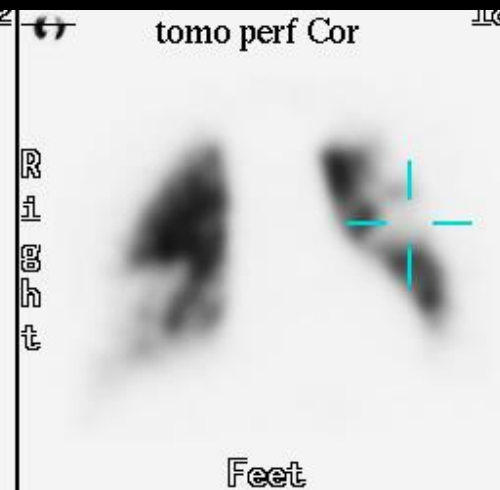
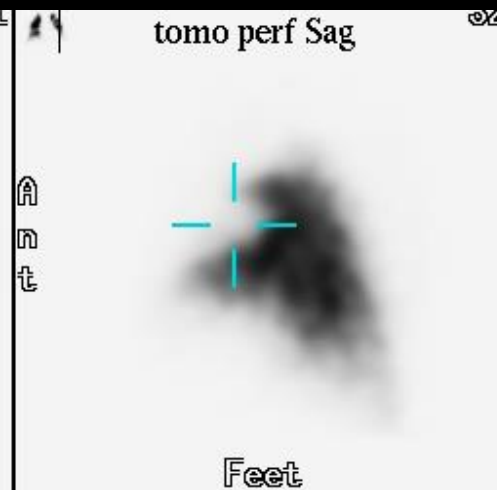
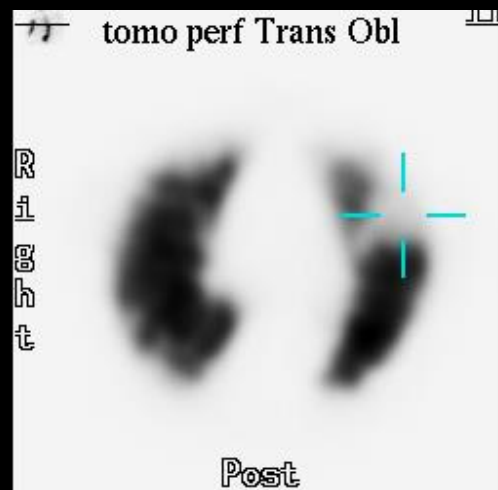
18

19

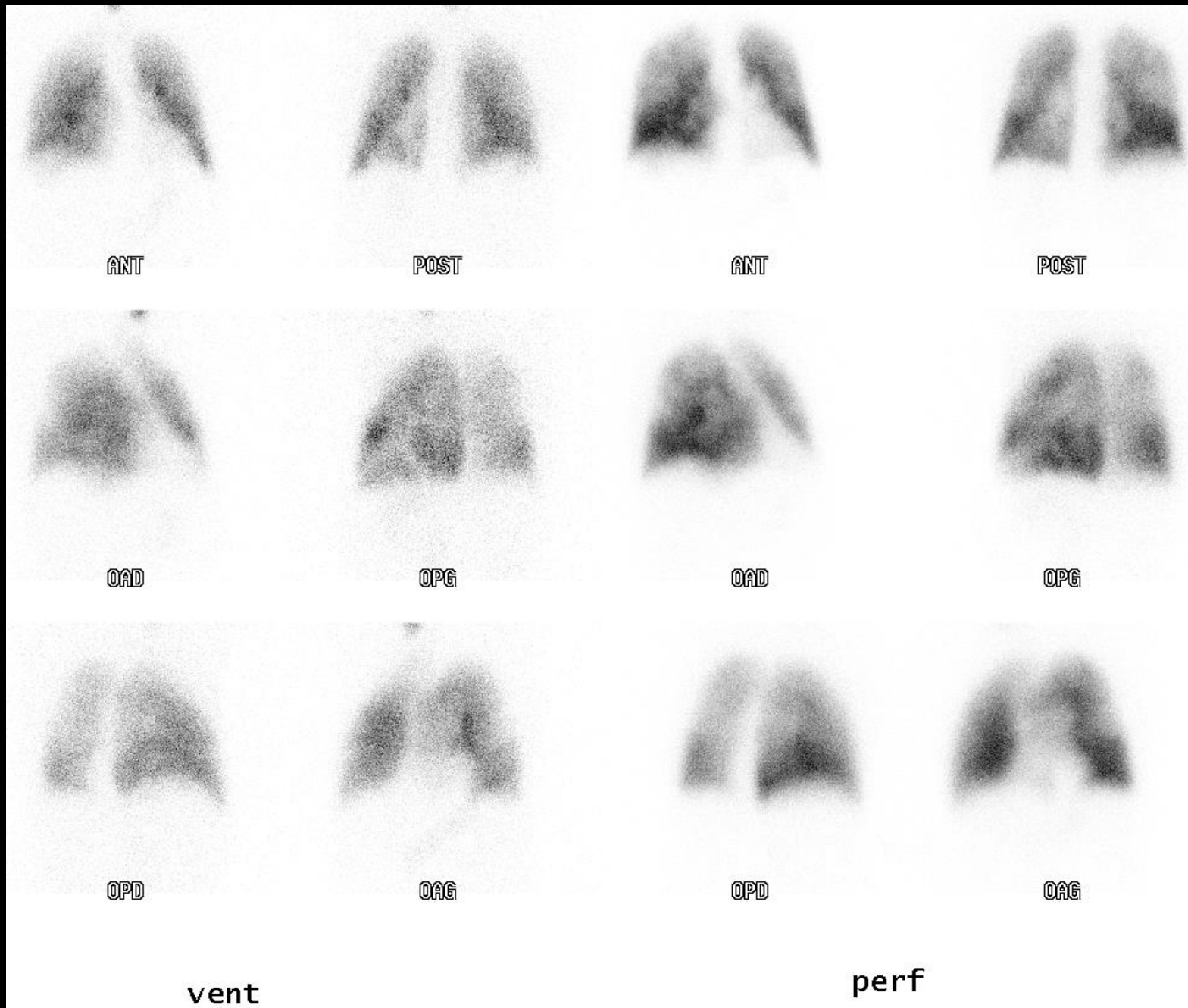
20

coupes frontales

R
i
g
h
t



(5) H 45ans, Dyspnée hypoxie, hypocapnie, emphysème



Merci pour votre attention