



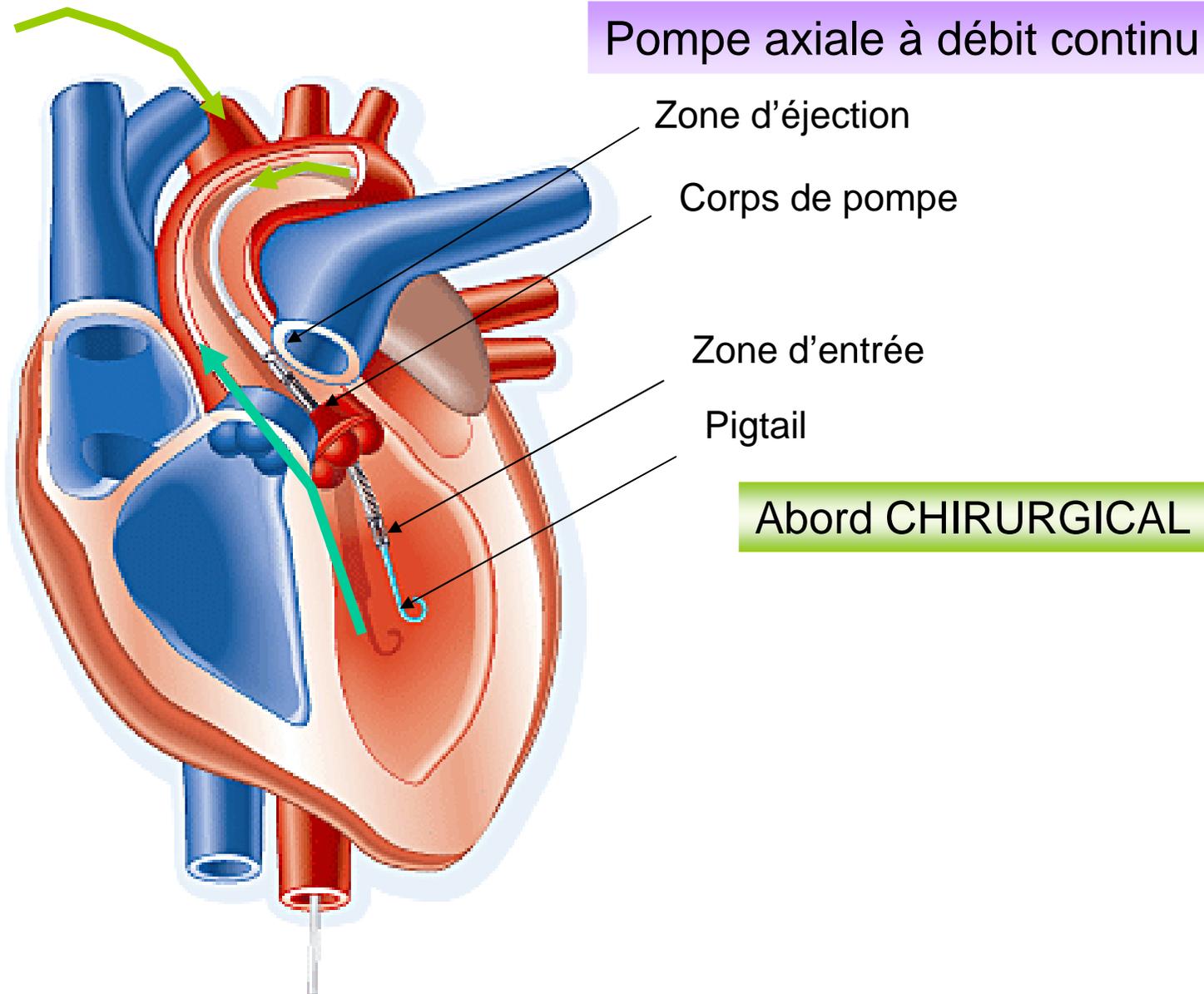
# IMPELLA 5.0 : EXPERIENCE

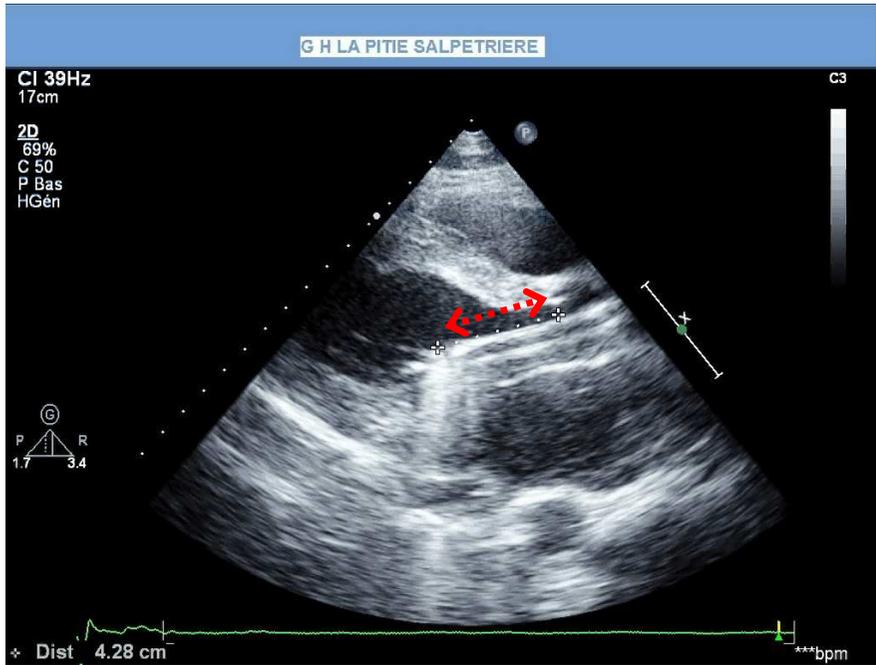
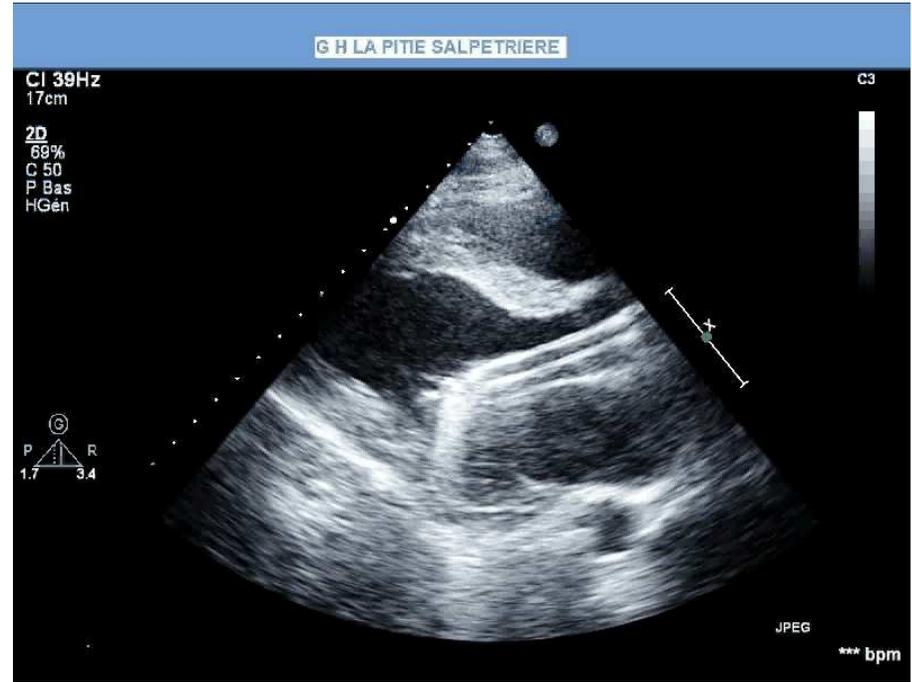
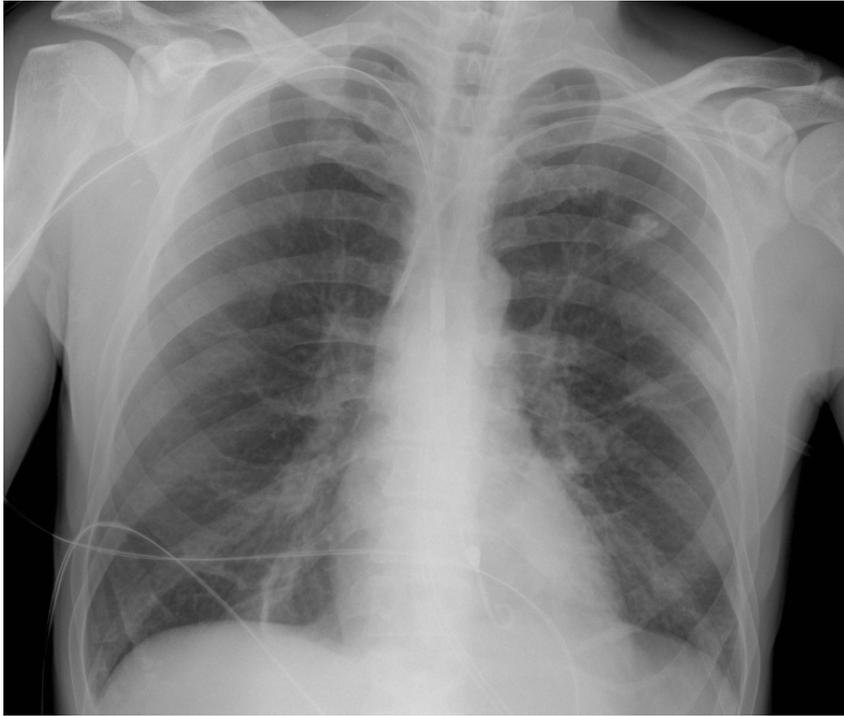
Astrid Quessard

Département d'Anesthésie Réanimation  
Institut de Cardiologie  
Groupe Hospitalier La Pitié Salpêtrière  
Paris

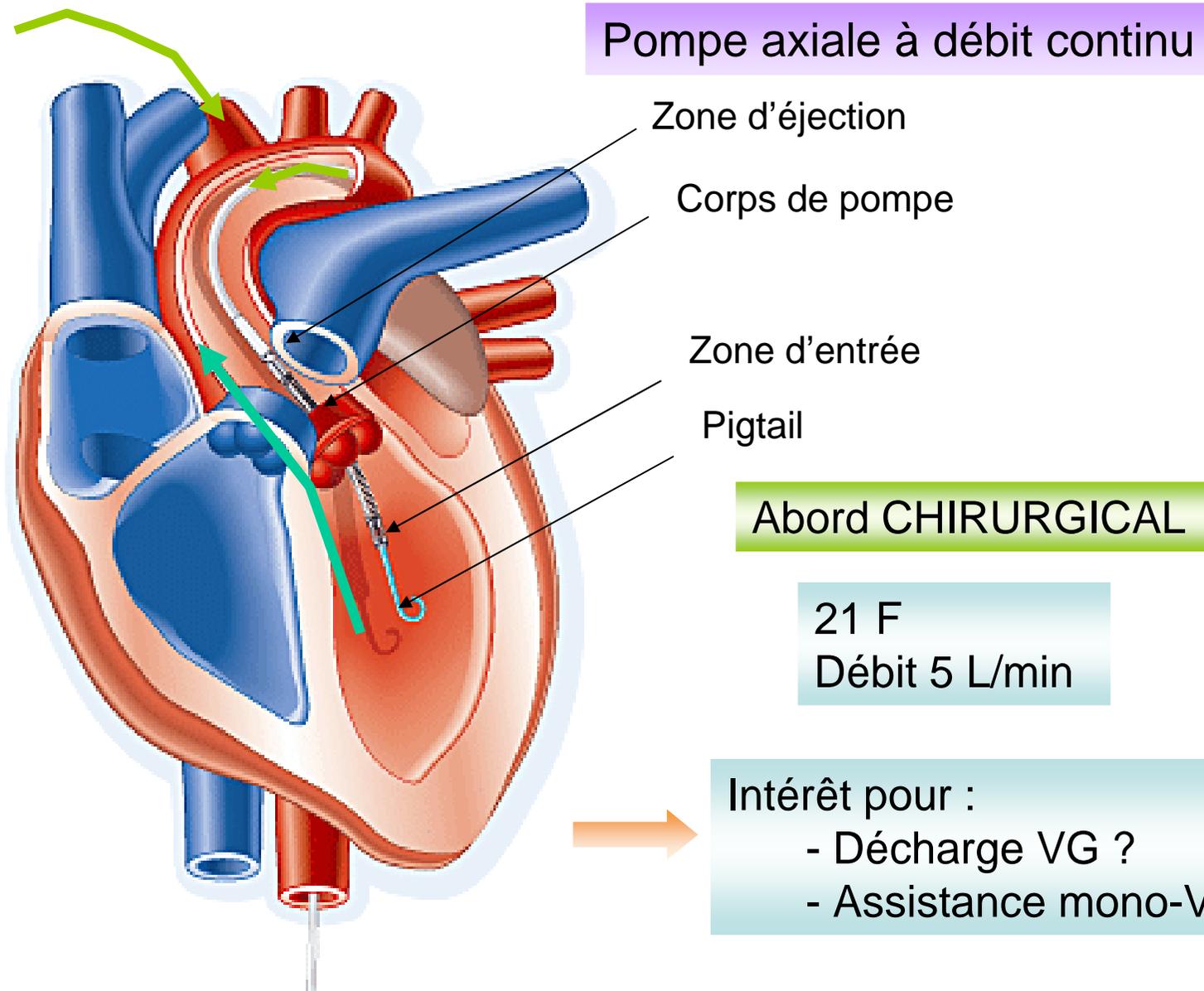


# IMPELLA 5.0 : comment ça marche ?





# IMPELLA 5.0 : comment ça marche ?



Pompe axiale à débit continu

Zone d'éjection

Corps de pompe

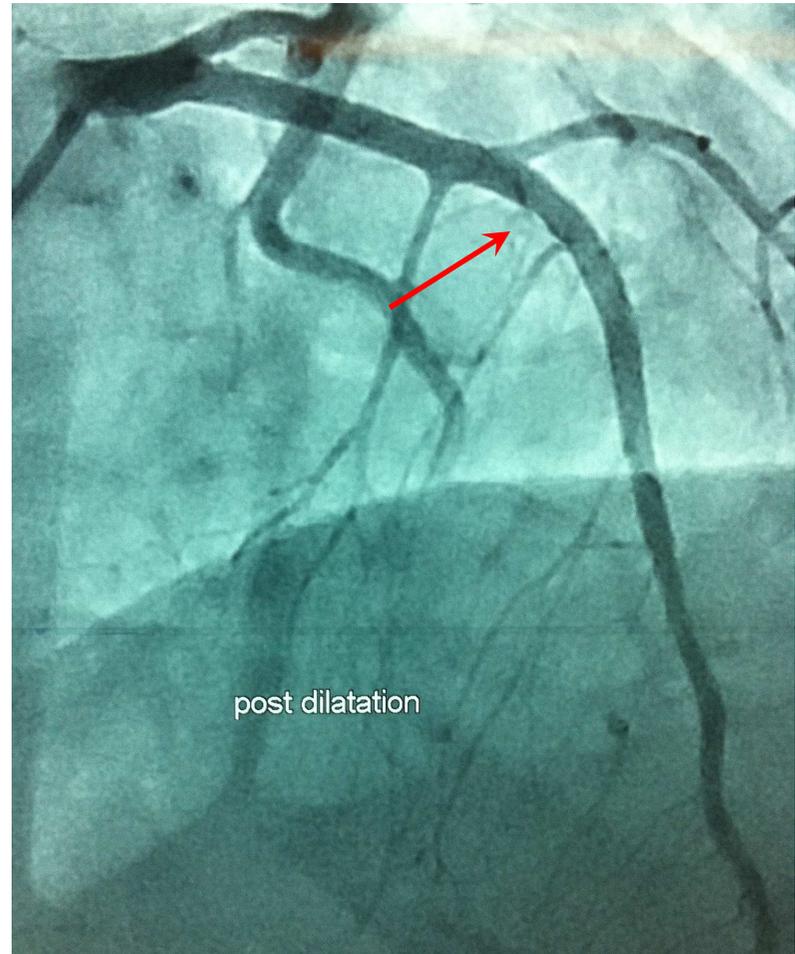
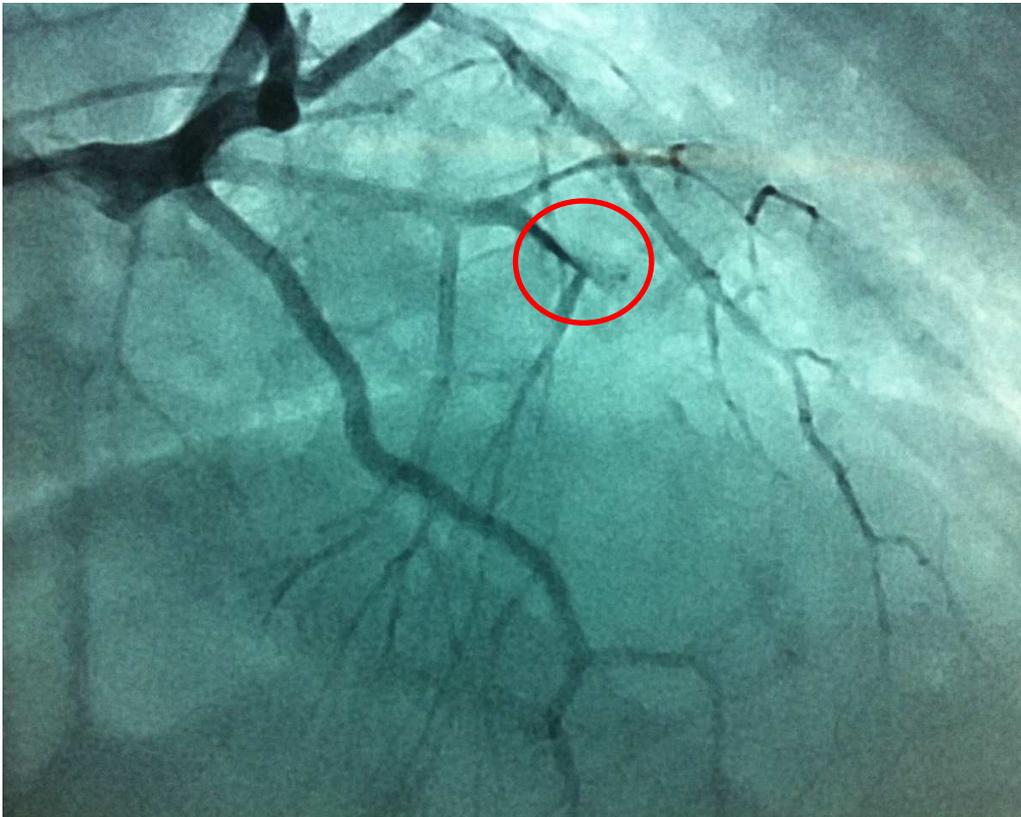
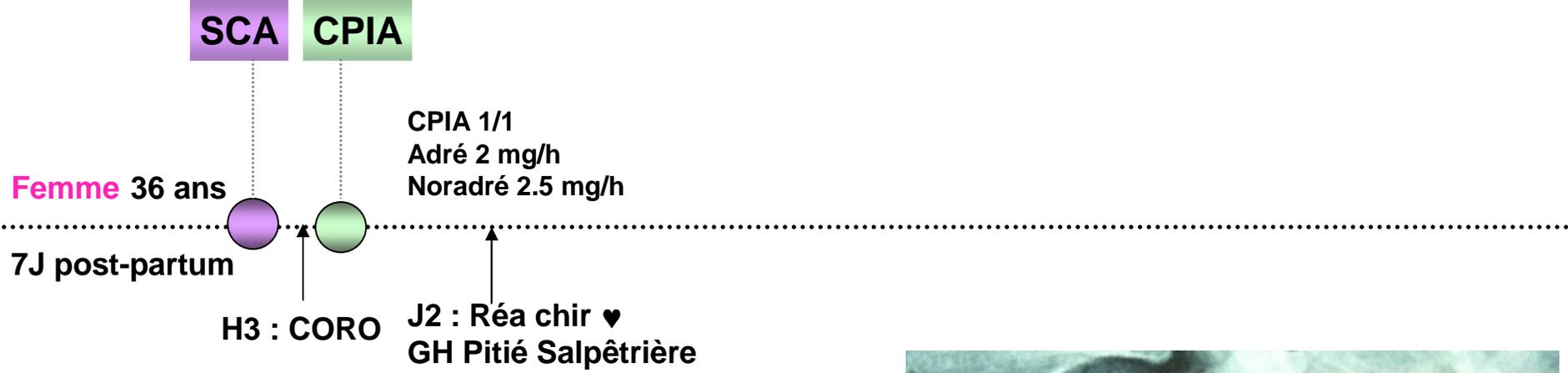
Zone d'entrée

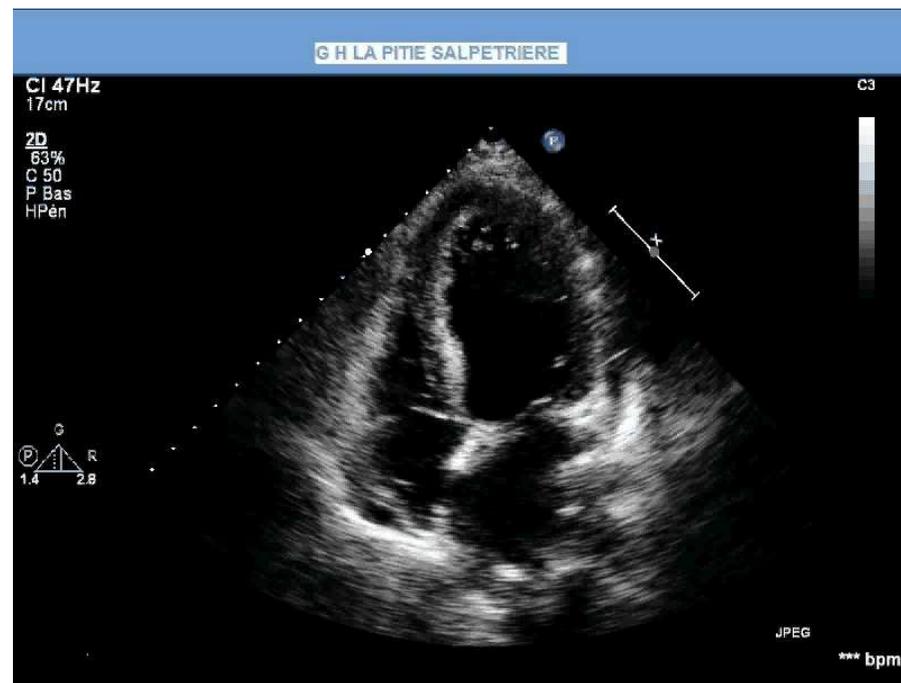
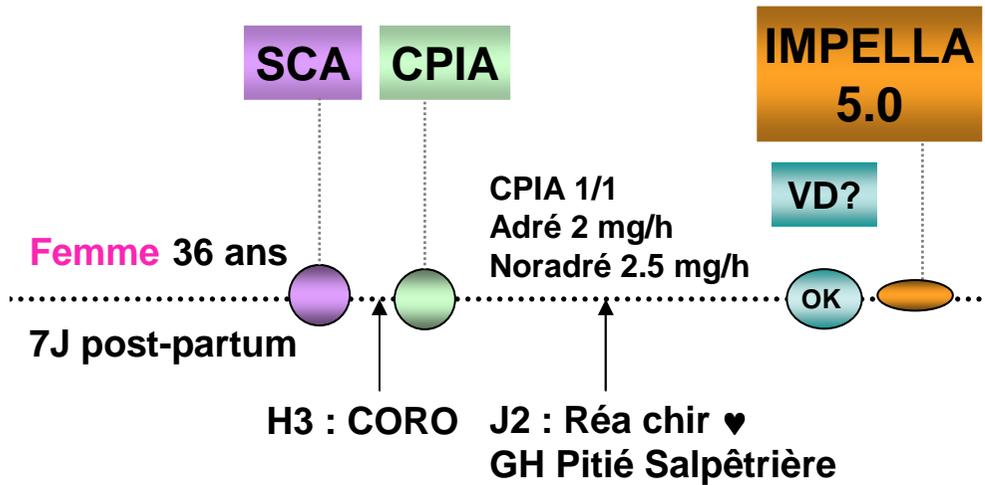
Pigtail

Abord CHIRURGICAL

21 F  
Débit 5 L/min

Intérêt pour :  
- Décharge VG ?  
- Assistance mono-VG ?

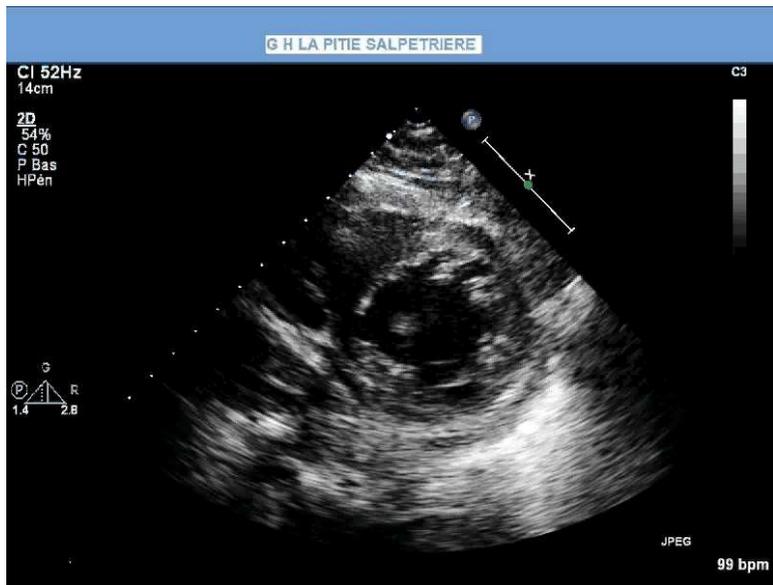




**J4**

**Impella P 7**  
Adré 1.1 mg/h

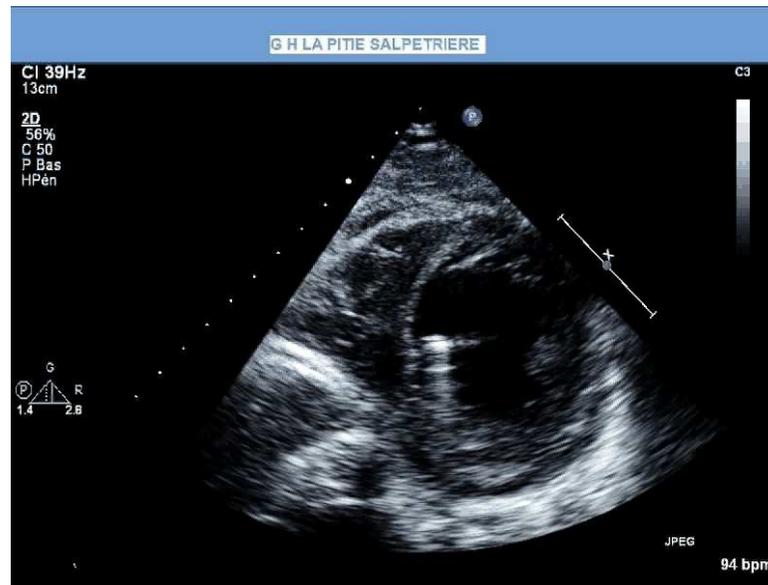
**ITVsAo 8.9 cm**  
FEVG 40%



**J6**

**Impella P 7**  
Adré 0.2 mg/h

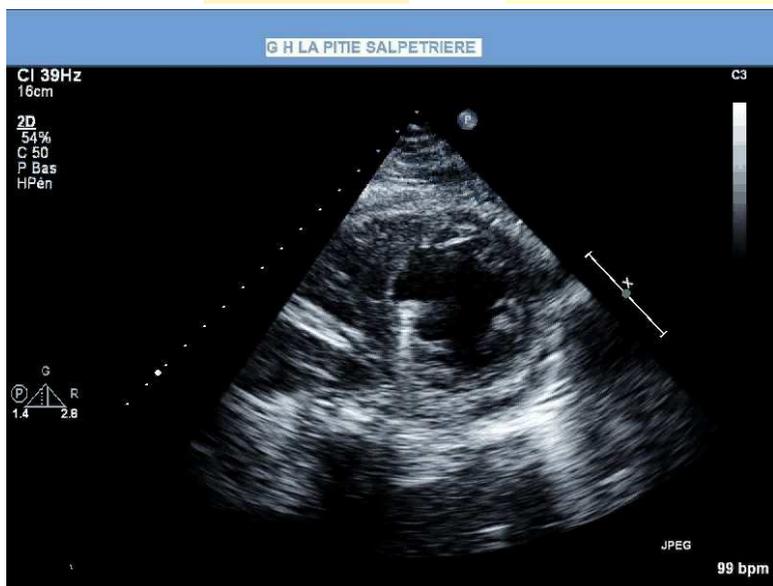
**ITVsAo 10.8 cm**  
FEVG 40%



**J8**

**Impella P 6**  
~~Adré~~

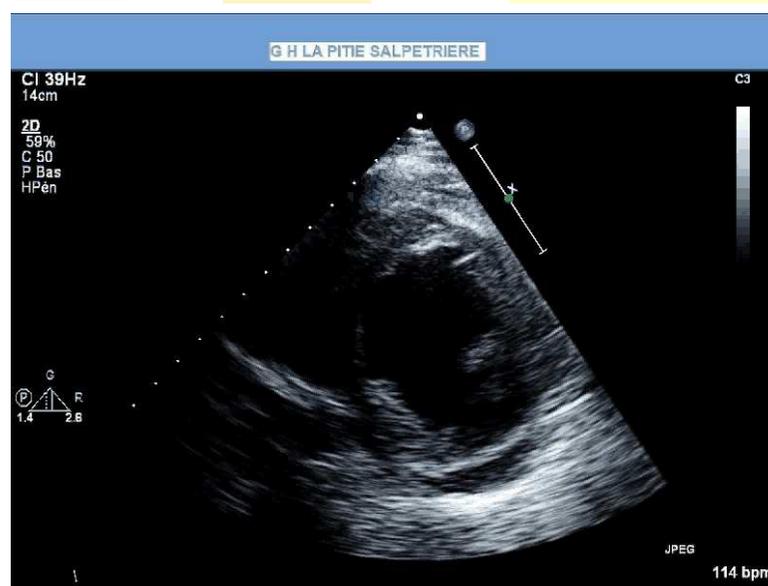
**ITVsAo 10.8 cm**  
FEVG 42%



**J10**

~~Impella~~  
~~Adré~~

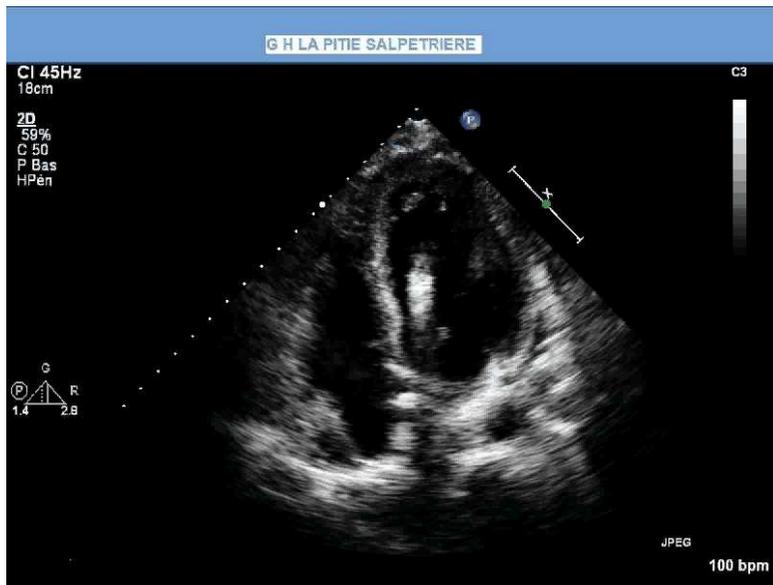
**ITVsAo 18.9 cm**  
FEVG 40%



J4

Impella P 7  
Adré 1.1 mg/h

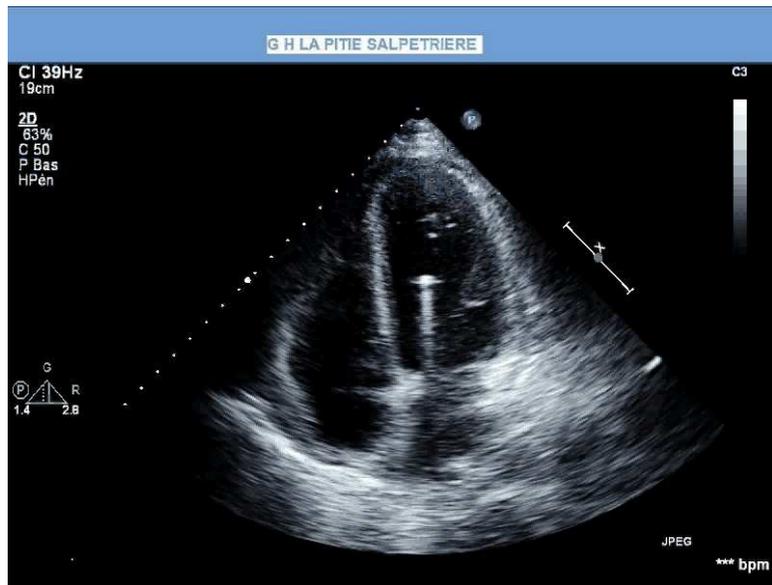
ITVsAo 8.9 cm  
FEVG 40%



J6

Impella P 7  
Adré 0.2 mg/h

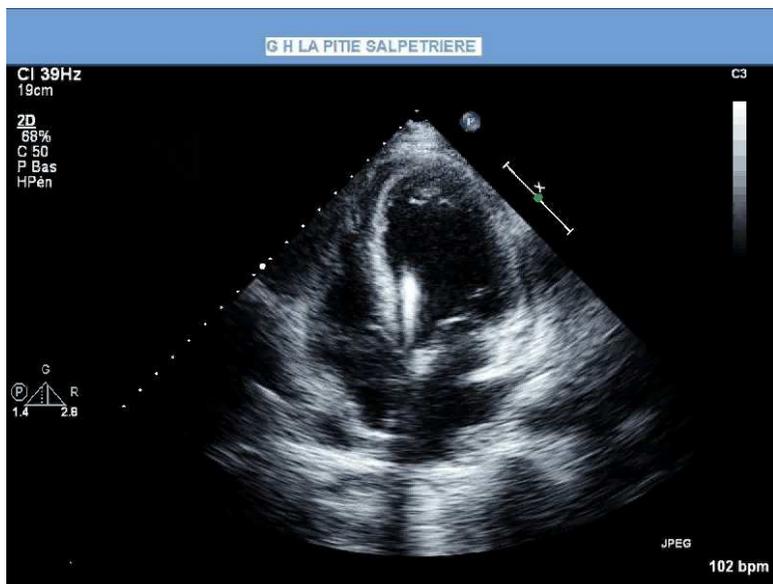
ITVsAo 10.8 cm  
FEVG 40%



J8

Impella P 6  
~~Adré~~

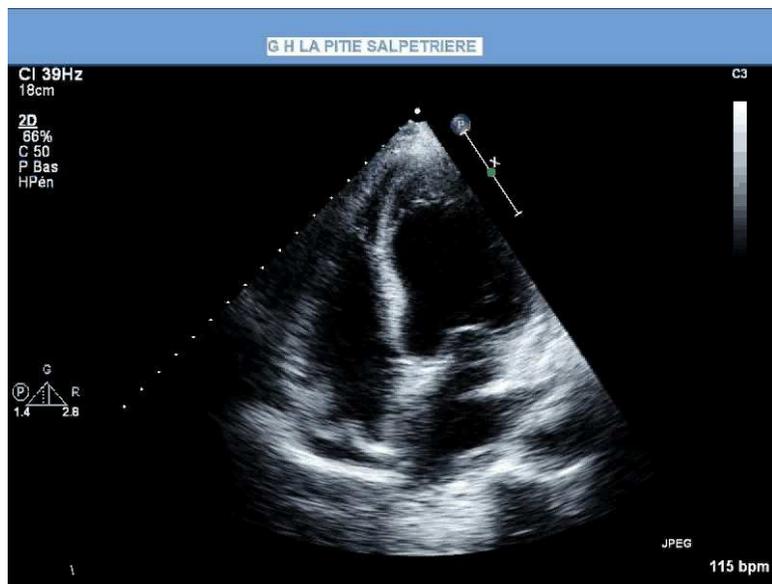
ITVsAo 10.8 cm  
FEVG 42%

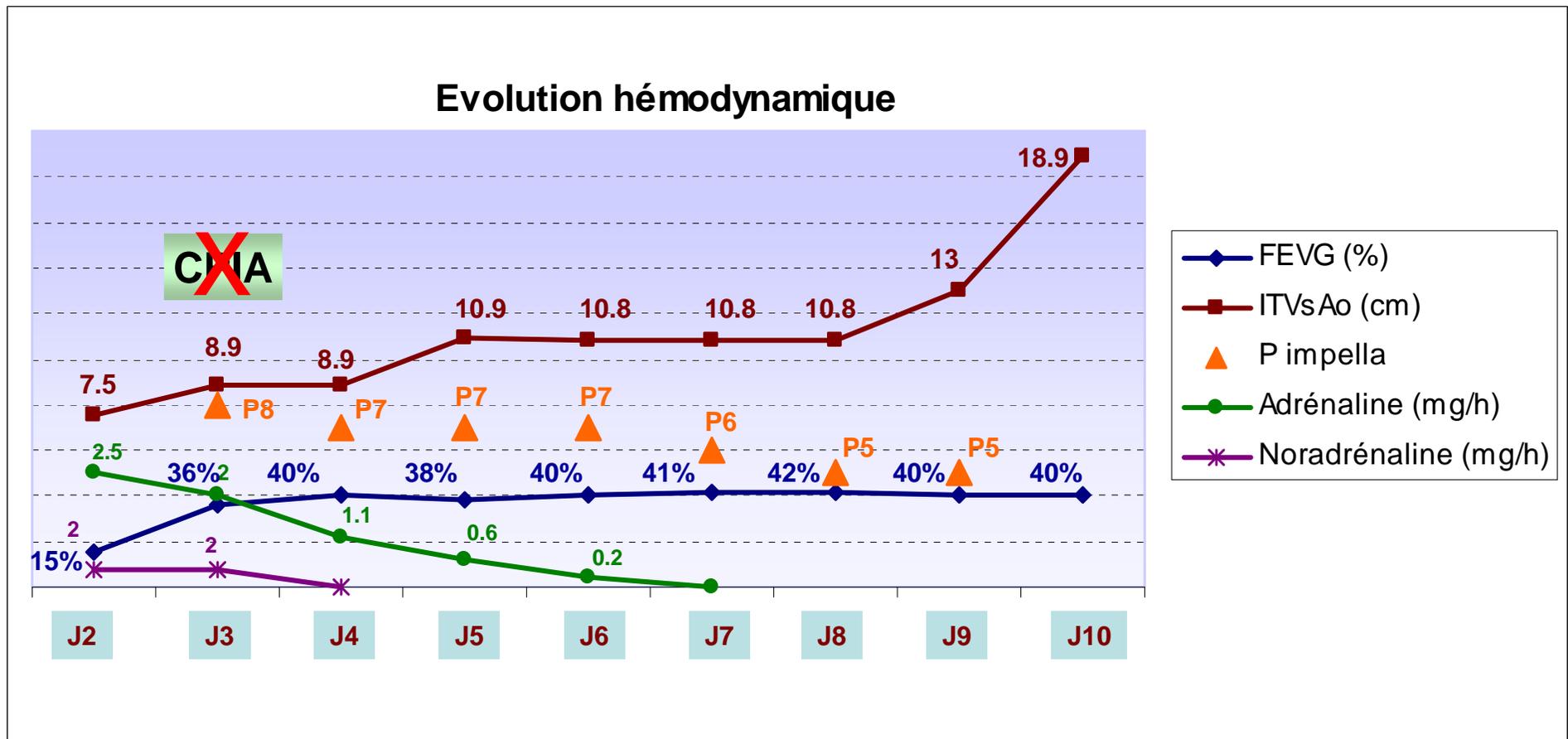
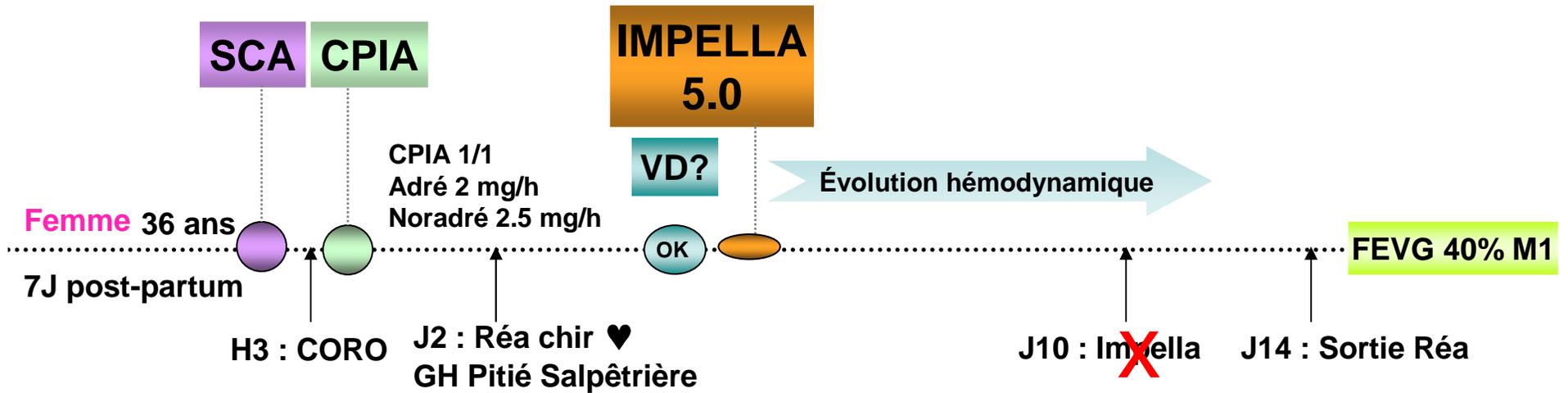


J10

~~Impella~~  
~~Adré~~

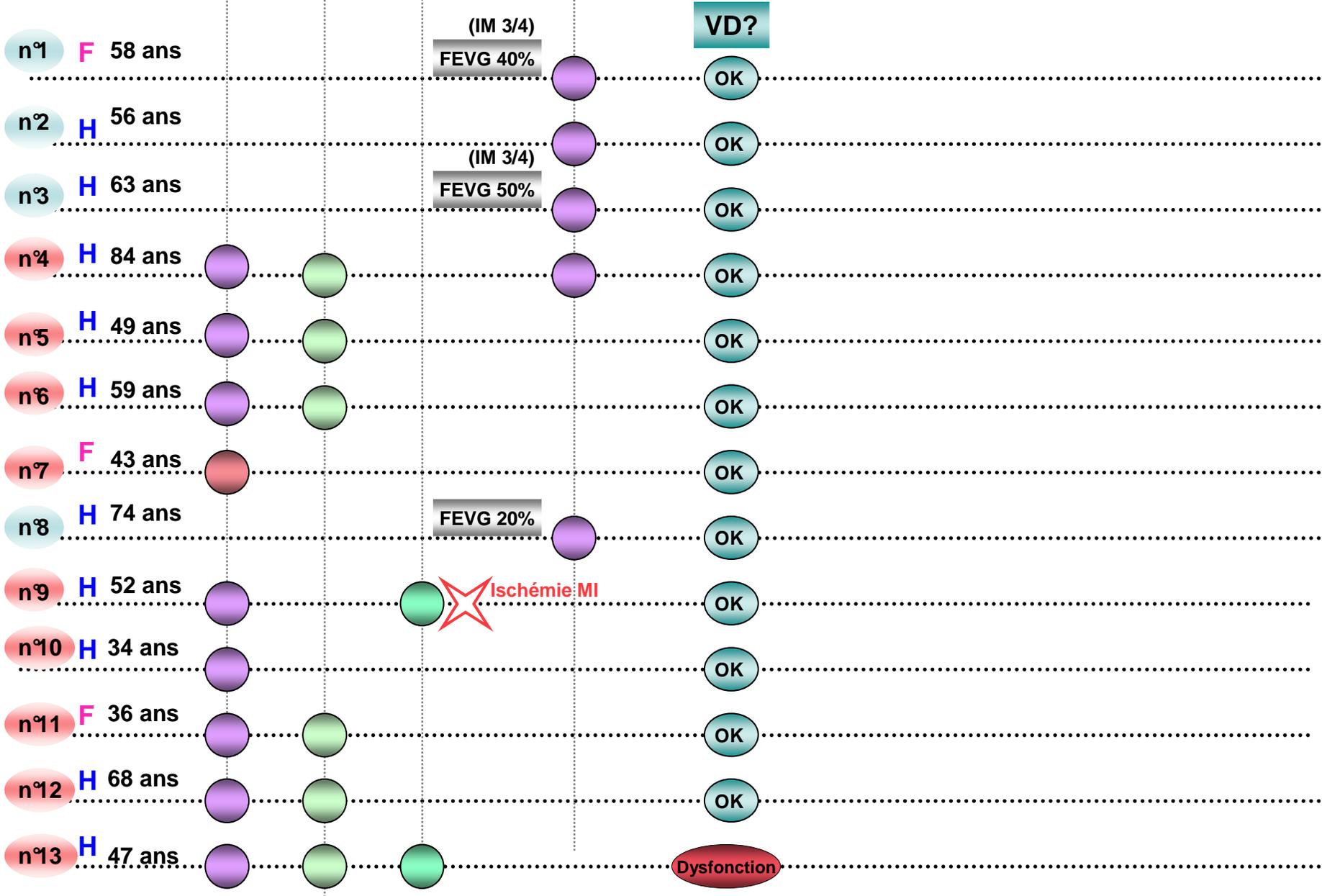
ITVsAo 18.9 cm  
FEVG 40%





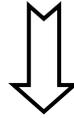
SCA   CPIA   ECLS   Chirurgie  
(sous CEC)

Myocardite



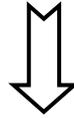
Ischémie MI

**IMPELLA 5.0**



**ASSISTANCE MONO-VENTRICULAIRE G (n = 12)**

**DECHARGE VENTRICULAIRE G (n = 1)**



**PROCEDURE**

**Abord**

**Axillaire D  
(n = 12)**

**Fémoral D  
(n = 1)**

**Durée implantation**

**113 min  
(45-175)**

**Incident grave  
per - procédure**

**AUCUN**

# IMPELLA 5.0

## COMPLICATIONS

Hémorragie  
(site insertion)

Hémolyse transitoire  
(⇒ ajustement position)

Dysfonction  
(⇒ ablation)

Surinfection  
(⇒ ablation)

Paresthésies  
Membre sup droit

n°1 F 58 ans



n°2 H 56 ans

Thrombus



n°3 H 84 ans

n°4 H 63 ans

n°5 H 49 ans



n°6 H 59 ans



n°7 F 43 ans



n°8 H 74 ans



n°9 H 52 ans

n°10 H 34 ans

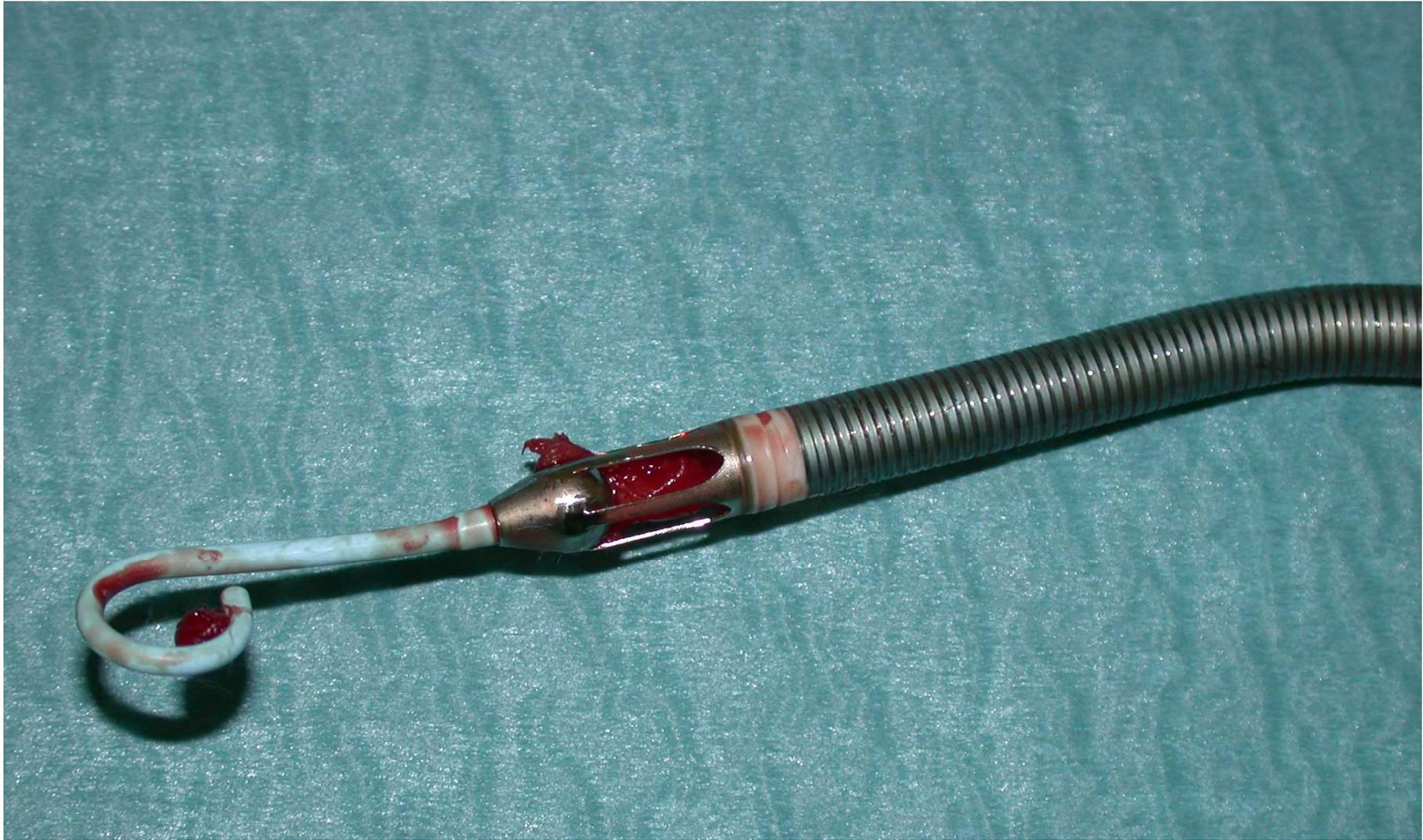
Thrombus



n°11 F 36 ans

n°12 H 68 ans

n°13 H 47 ans



# IMPELLA 5.0

## COMPLICATIONS

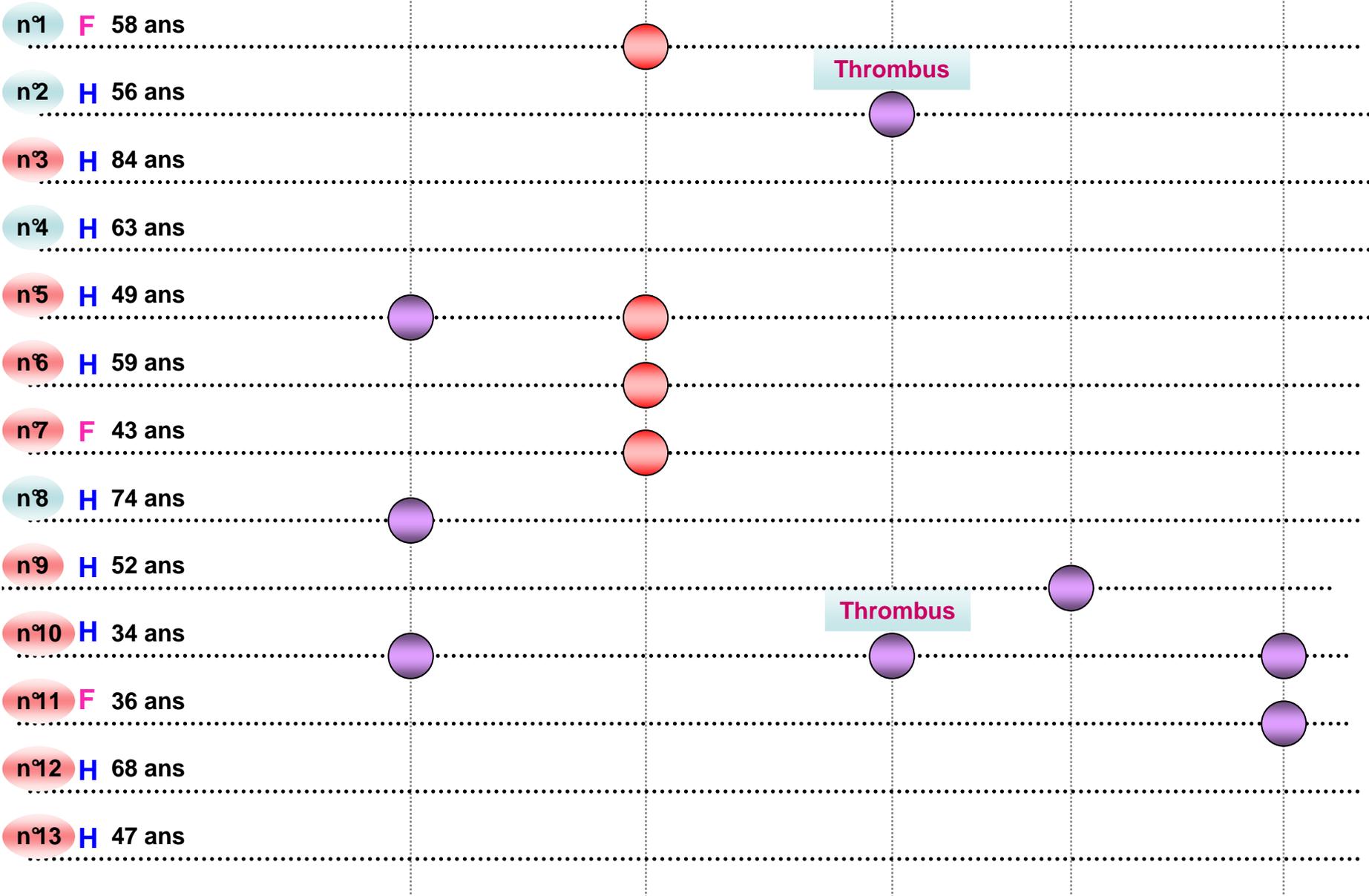
Hémorragie  
(site insertion)

Hémolyse transitoire  
(⇒ ajustement position)

Dysfonction  
(⇒ ablation)

Surinfection  
(⇒ ablation)

Paresthésies  
Membre sup droit



# IMPELLA 5.0

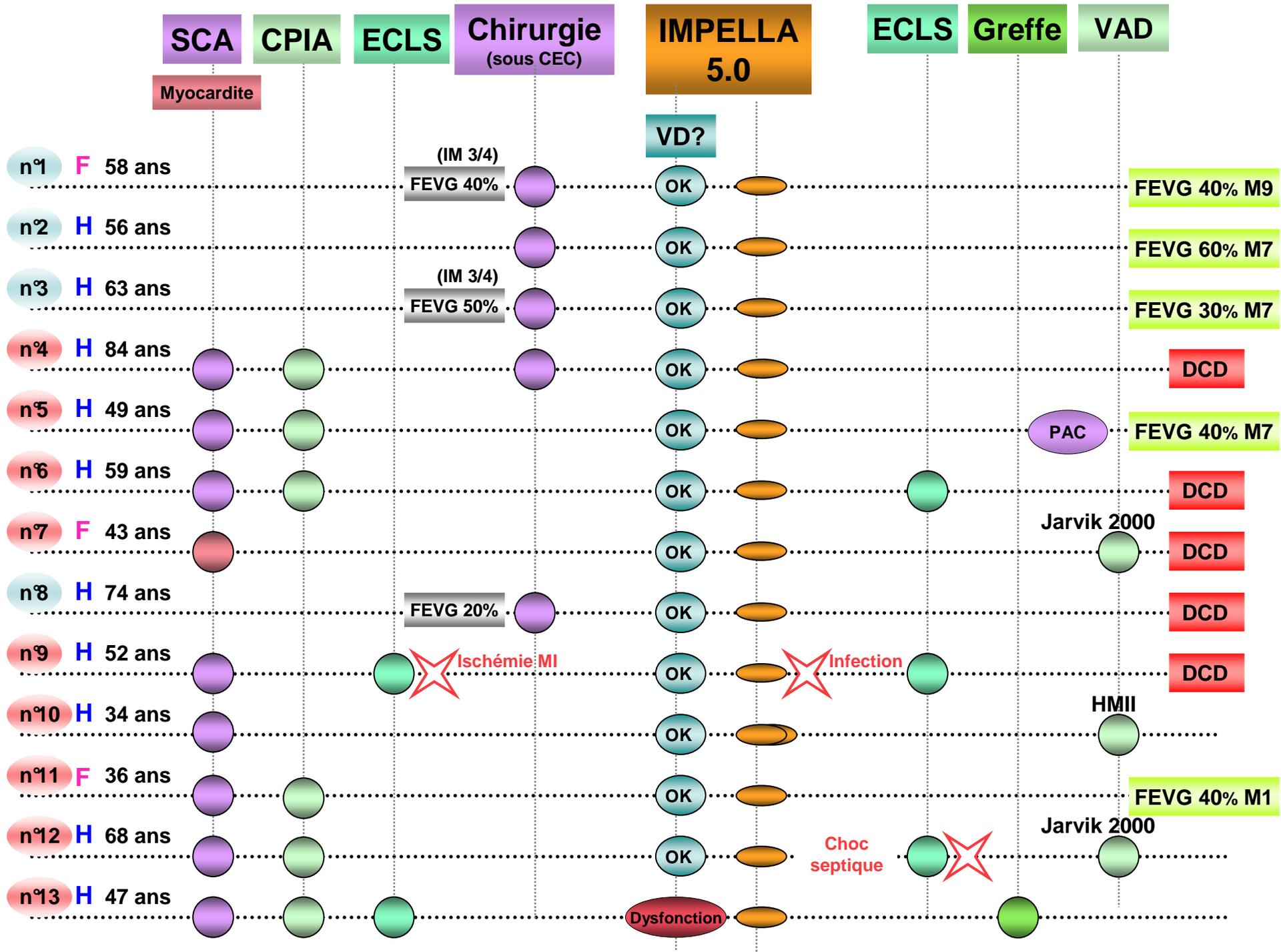
## SEJOUR EN REA

### Assistance

### Ventilation Mécanique

### Séjour Réanimation

	Assistance	Ventilation Mécanique	Séjour Réanimation	DCD
n°1 F 58 ans	9 j	2 j	16 j	
n°2 H 56 ans	9 j	10 j	32 j	
n°3 H 84 ans	3 j	13 j	19 j	
n°4 H 63 ans	1 j	4 j	4 j	DCD
n°5 H 49 ans	10 j	10 j	23 j	
n°6 H 59 ans	7 j	14 j	14 j	DCD
n°7 F 43 ans	11 j	2 j	43 j	DCD
n°8 H 74 ans	1 j	1 j	1 j	DCD
n°9 H 52 ans	9 j	23 j	23 j	DCD
n°10 H 34 ans	20 j	2 j	26 j	
n°11 F 36 ans	8 j	8 j	14 j	
n°12 H 68 ans	27 j			
n°13 H 47 ans	18 j			

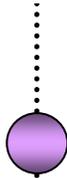


**Homme**

34 ans

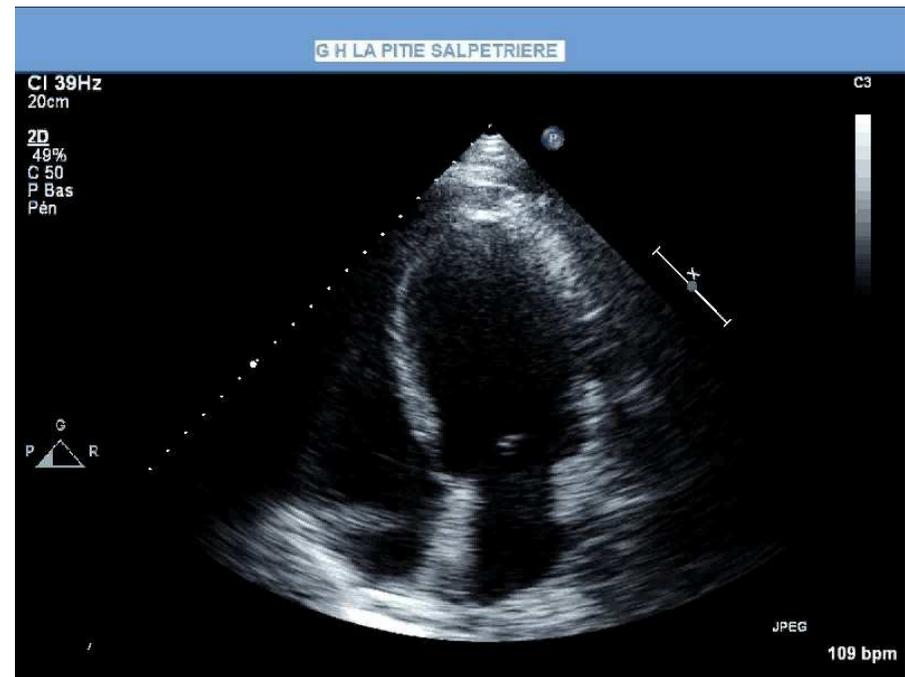
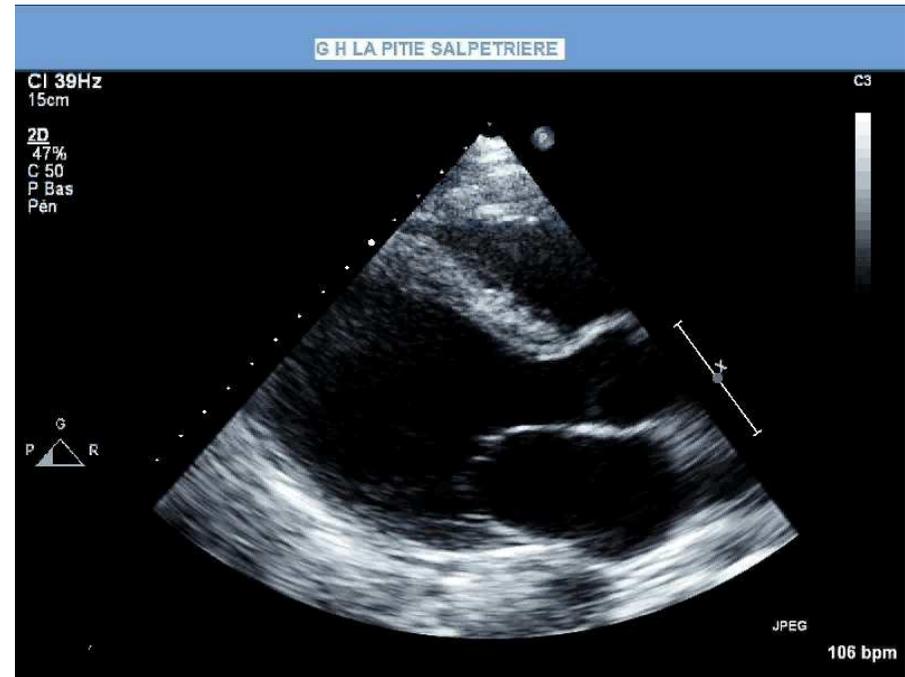
H11 : CORO →

J2 : REA CHIR ♥ →  
GH Pitié Salpêtrière



**SCA**

Dobu 10 µg/kg/mn



**Homme**

34 ans

H11 : CORO

J2 : REA CHIR ♥  
GH Pitié Salpêtrière

Dobu 10 µg/kg/mn

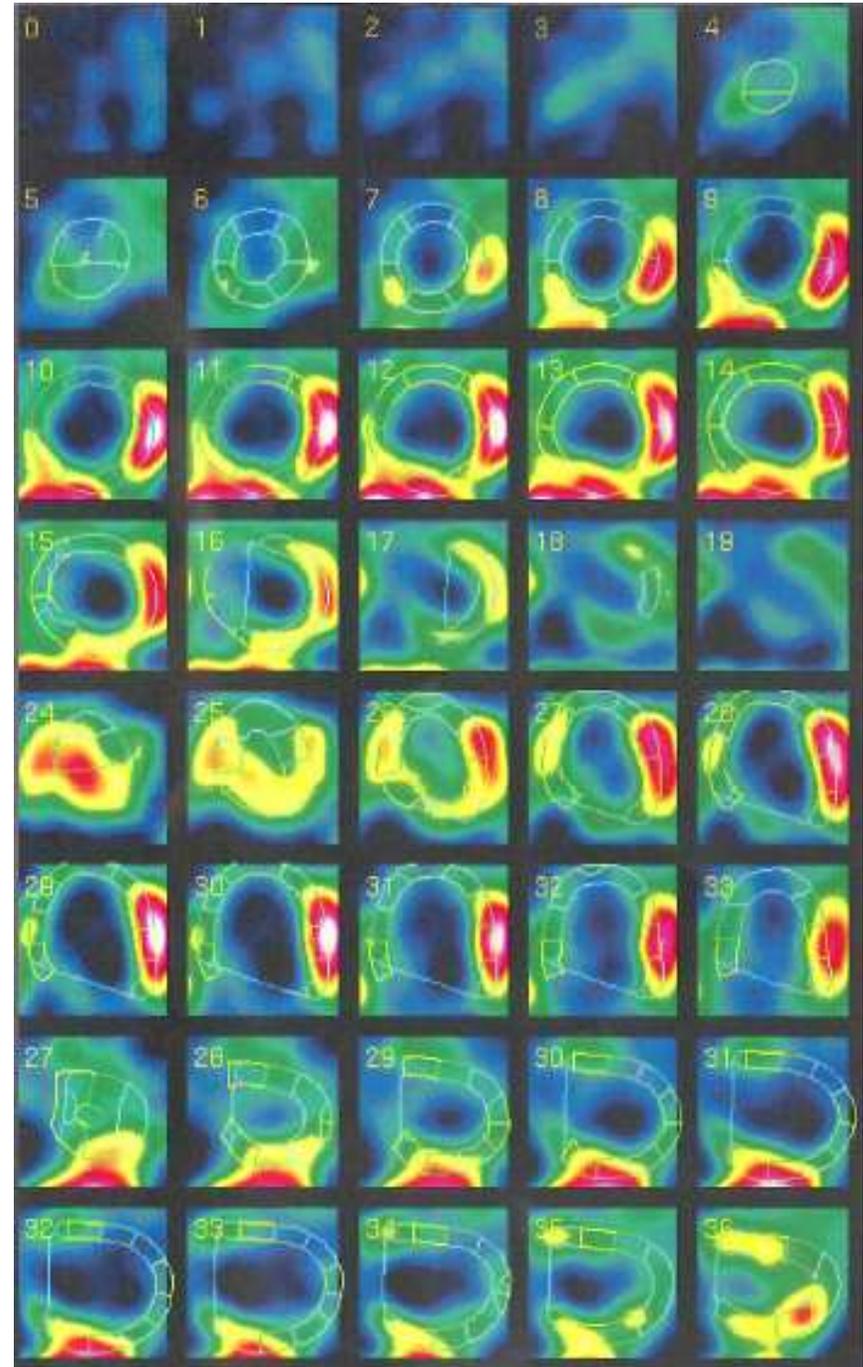
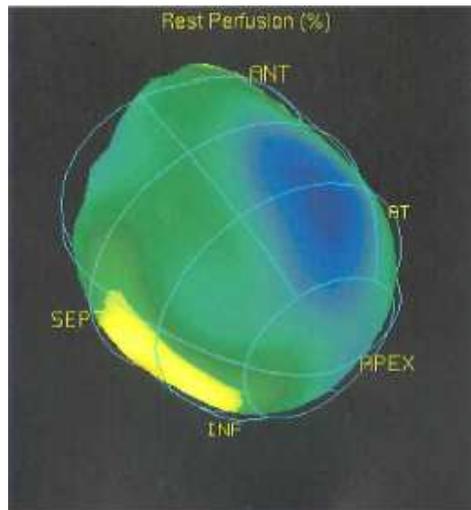
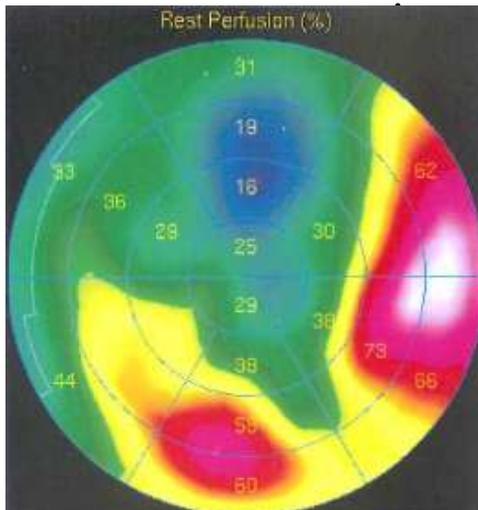
OK

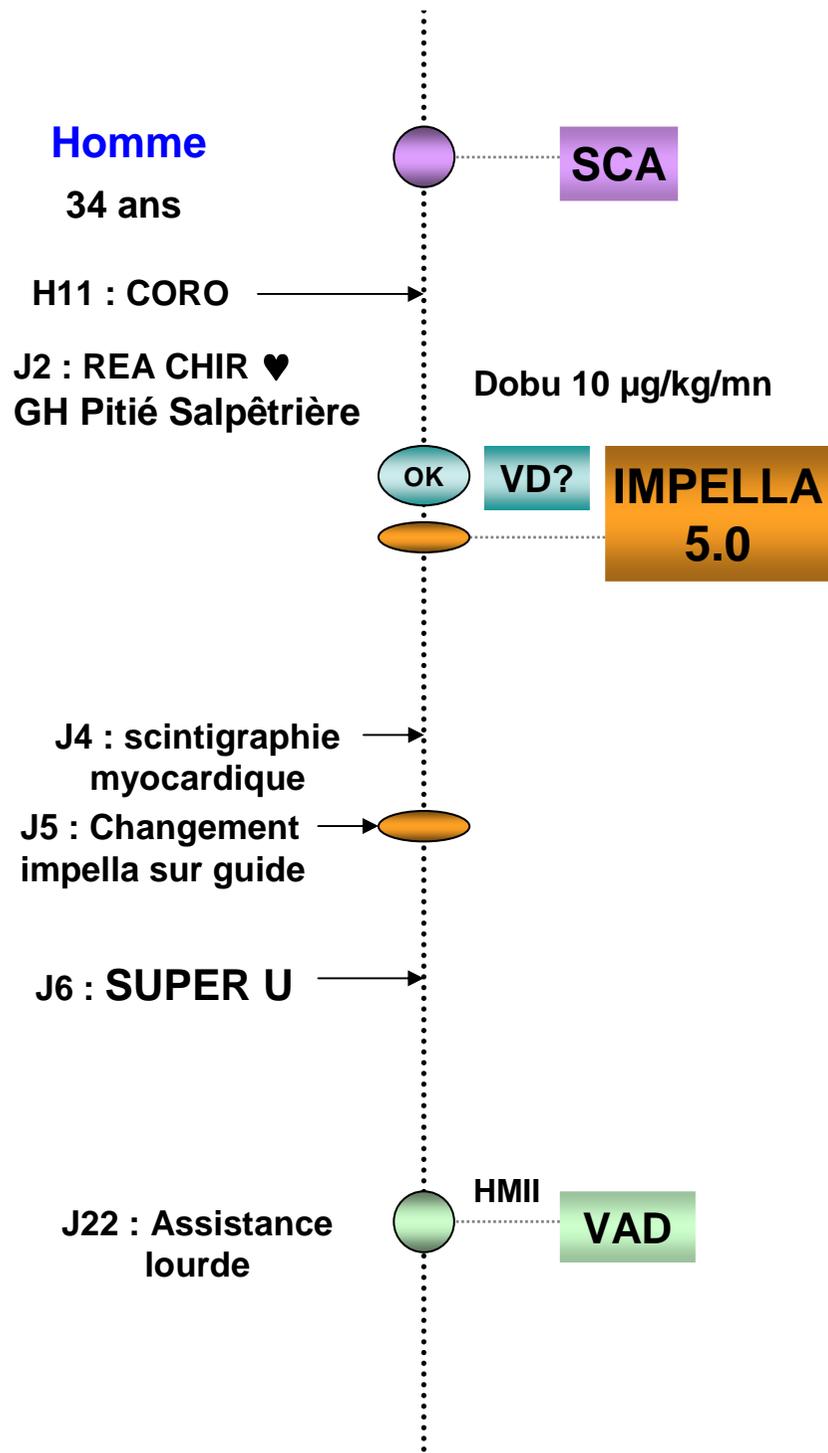
VD?

SCA

IMPELLA  
5.0

J4 : scintigraphie  
myocardique

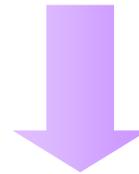






## Conclusion

INTERET IMPELLA 5.0 :



Assistance mono-ventriculaire G de courte durée  
Décharge ventriculaire gauche





## Conclusion

DEVELOPPEMENT INDICATIONS IMPELLA LP 5.0 :



Défaillance ventriculaire gauche



Post-cardiotomie



Post-infarctus du myocarde

