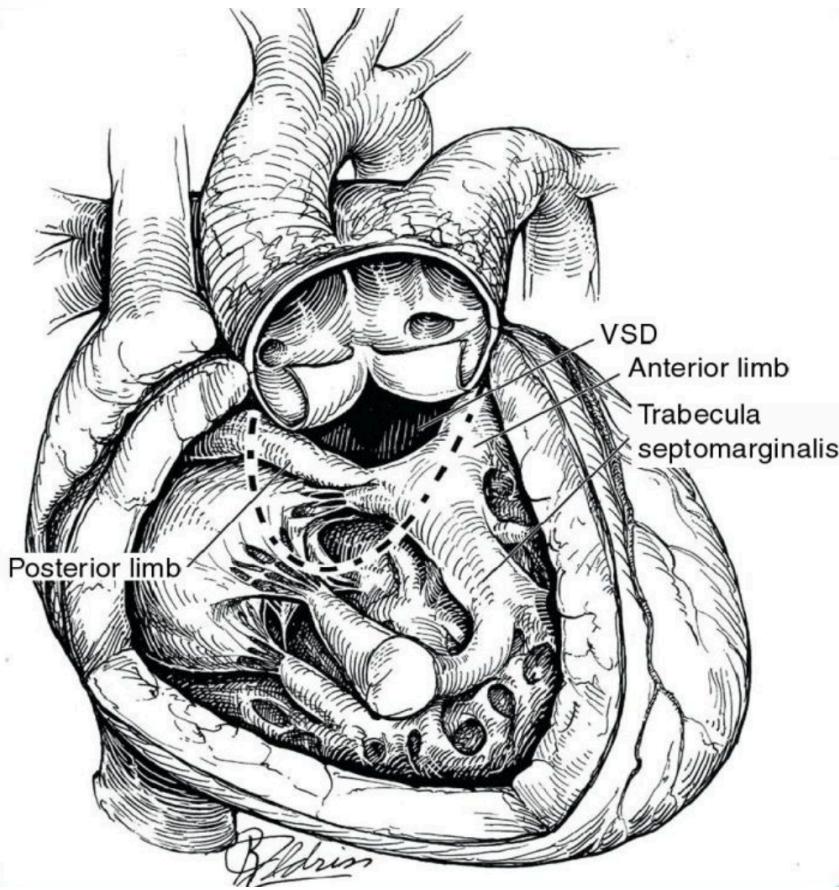


# TRONC ARTERIEL COMMUN

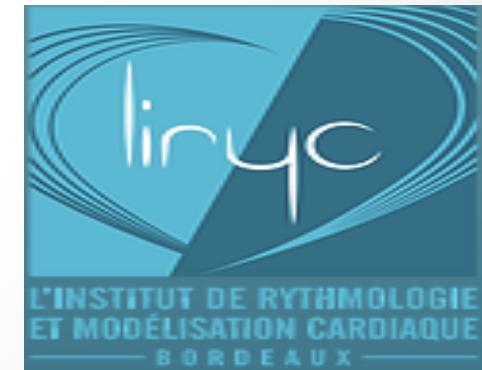


Zakaria Jalal

Cardiopathies congénitales de l'enfant et de l'adulte  
Hôpital cardiologique Haut Lévêque Pessac

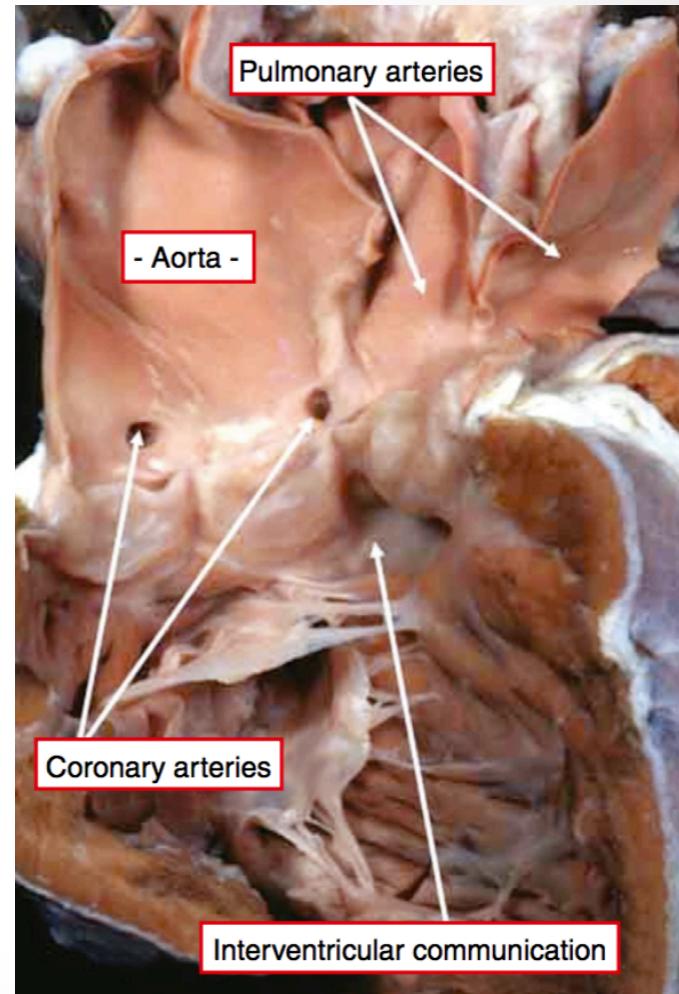


Institut national  
de la santé et de la recherche médicale



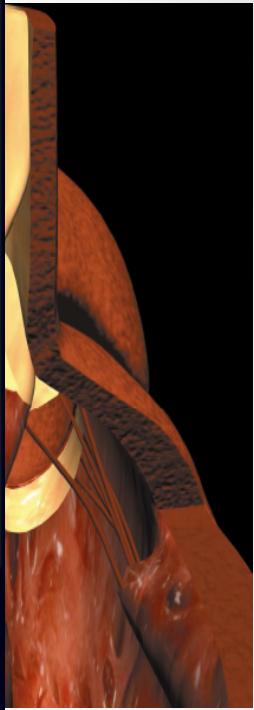
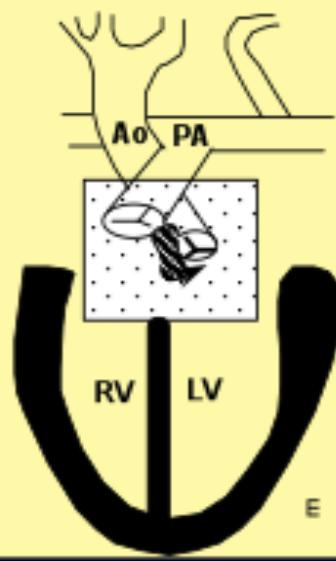
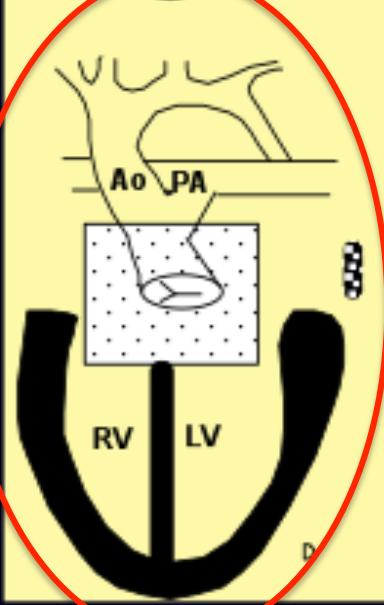
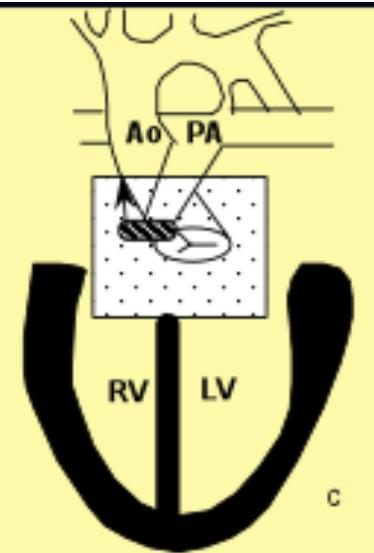
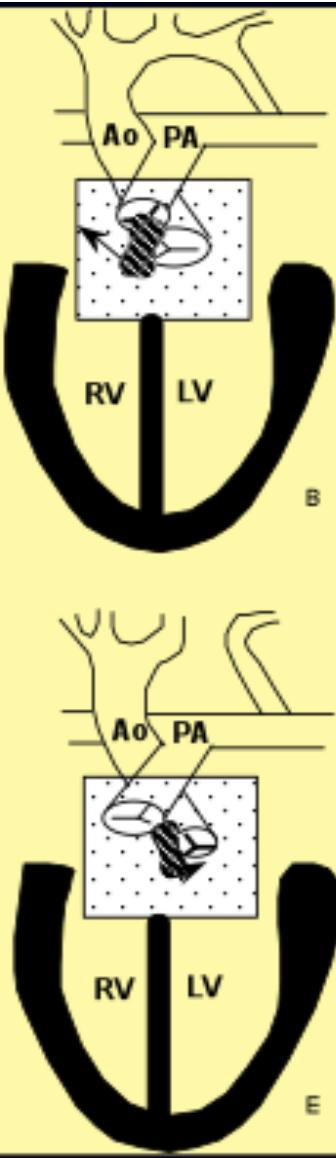
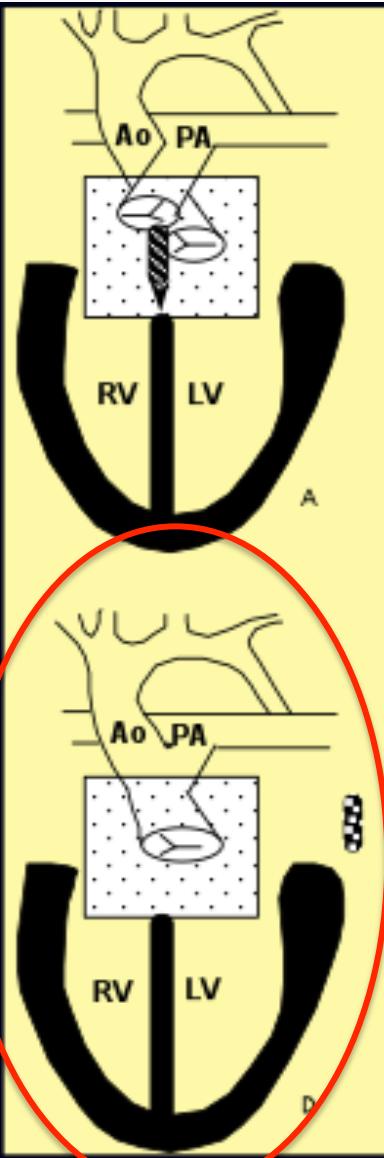
# DEFINITION

- 1.4% des cardiopathie congénitales
- Cardiopathie conotroncale
- Echec de septation conale et aorticopulmonaire
- Diagnostic anténatal
- Souvent associé à un 22q11



# EMBRYOLOGIE

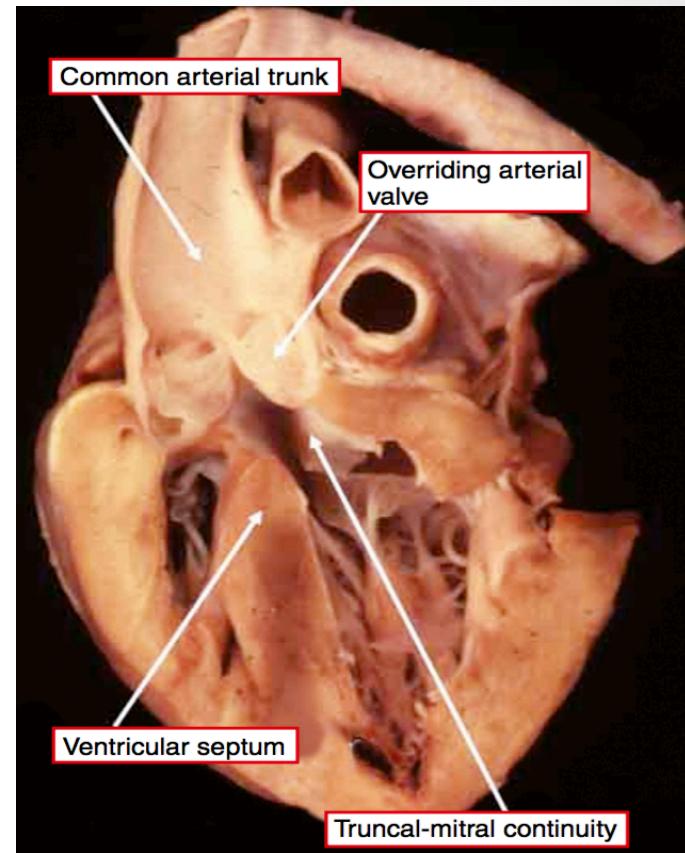
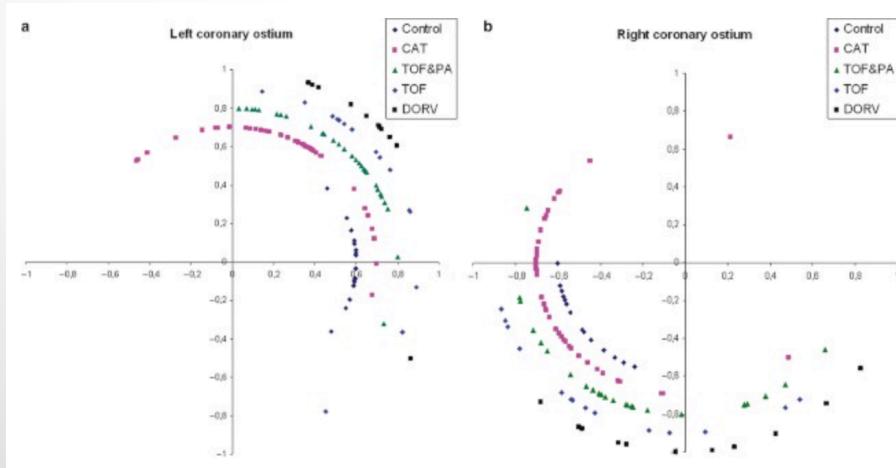
- Cell
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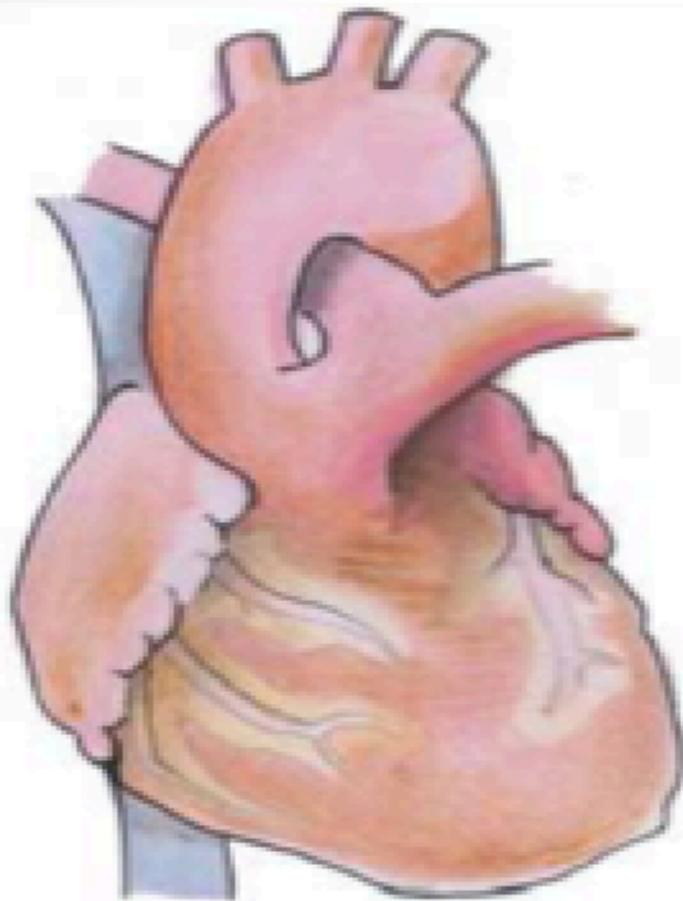
Conotruncal  
heart defects

# ANATOMIE

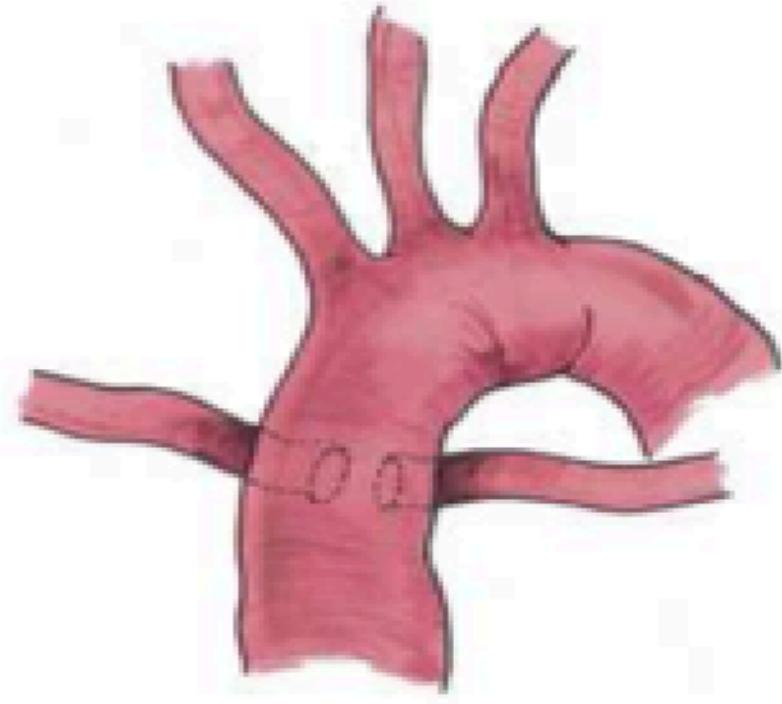
- CIV large cono-troncale
- Valve troncale avec tronc commun
  - Tricuspidé 2/3
  - Bi ou Quadricuspide 1/3
- Naissance branches pulmonaires variable = Classification de Van Praagh
- Anomalies coronaires
- Crosse aortique droite



# FORMES ANATOMIQUES

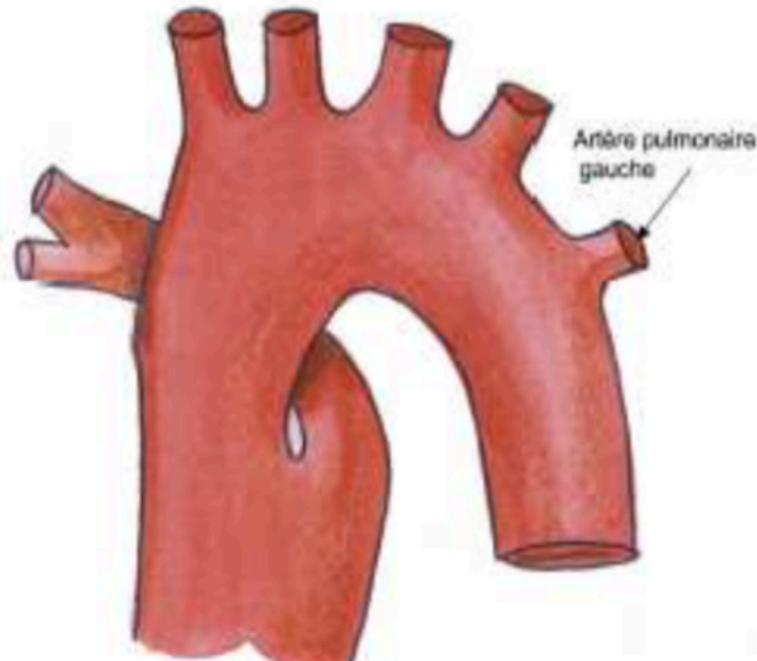


Type I  
Présence d'un TAP  
65 %

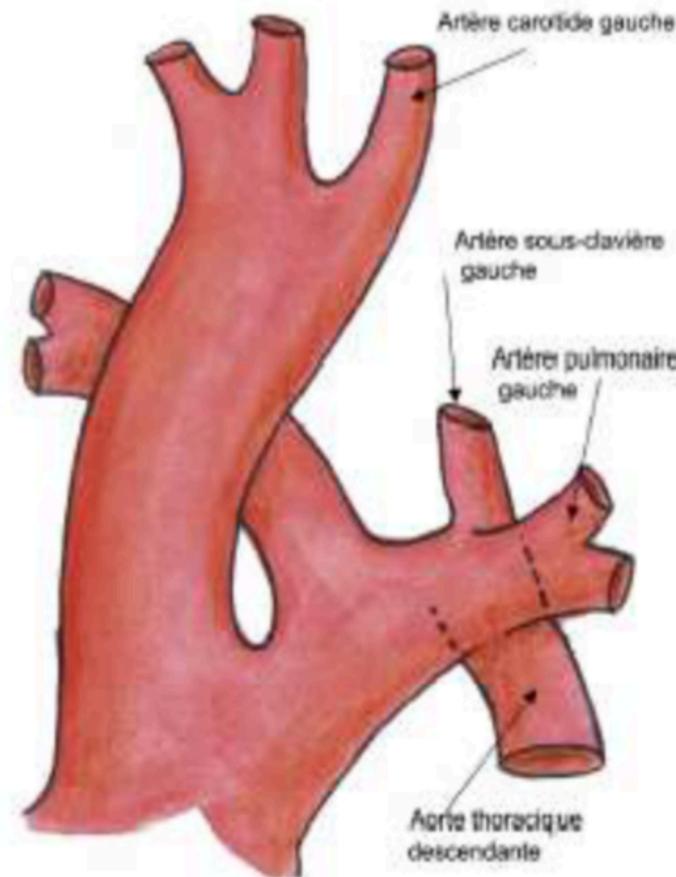


Type II  
Branches naissant séparément  
25 %

# FORMES ANATOMIQUES



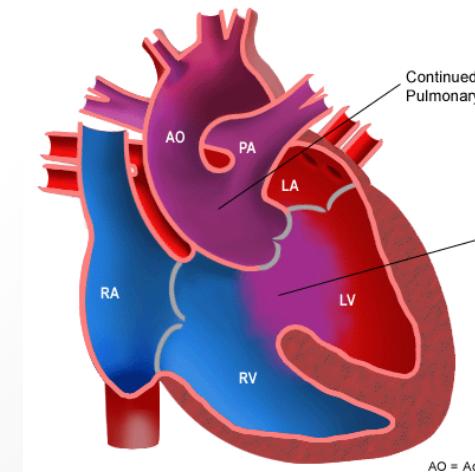
Type III  
APG de l'Ao desc



Type IV  
I + IAAo  
90 % del 22q1.1

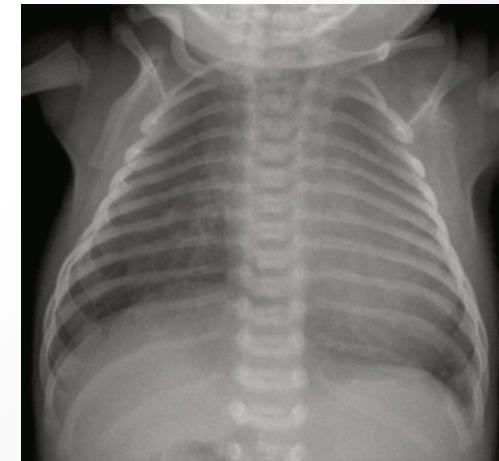
# PHYSIOPATHOLOGIE

- Cardiopathie à sang mélangé, Sat Ao = Sat AP
- Qp/qs évalué de manière non invasive
- **Qp/Qs = Sat Ao – Sat SVM / Sat VP – Sat AP**
- Shunt: ratio résistances systémiques/pulmonaires
- Cyanose modérée à la naissance
- Augmentation du débit pulmonaire avec baisse des RVP
- Artériolite pulmonaire à partir de 6 mois



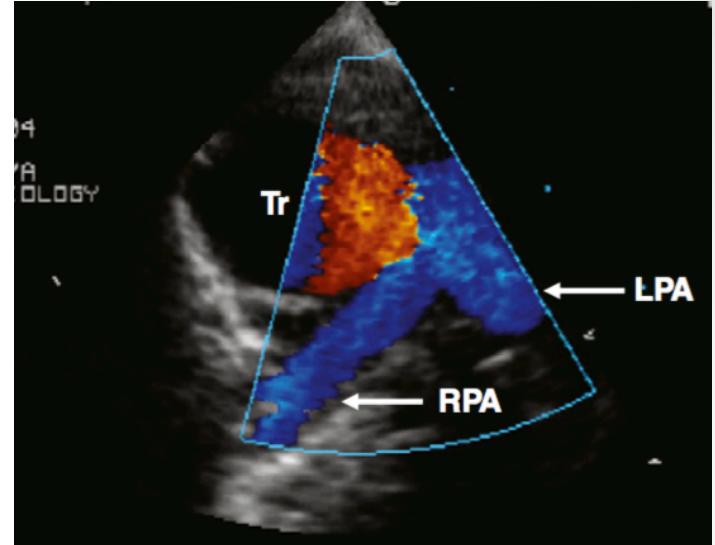
# CIRCONSTANCES DE DECOUVERTE

- Diagnostic anténatal : fish 22q1.1
- Discrète cyanose ou désaturation
- Souffle systolique (double souffle si fuite valve troncale)
- Signes d' hyperdébit pulmonaire ++
- Dysmorphie faciale, autres signes 22q1.1

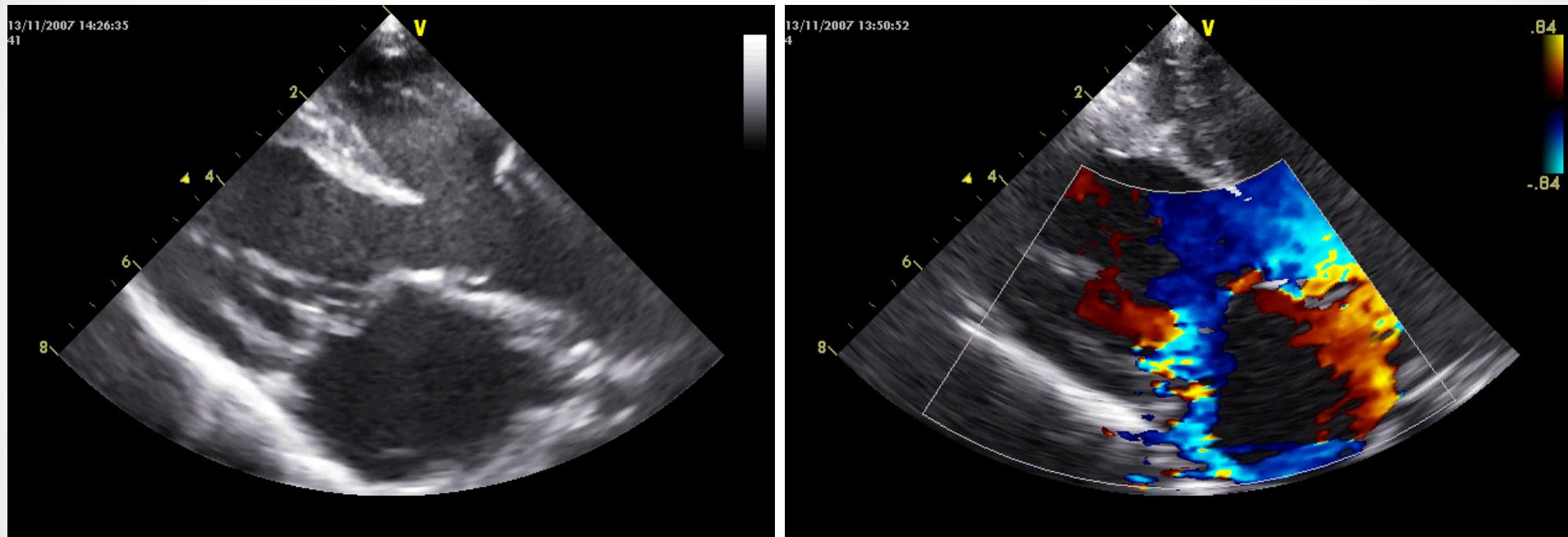


# ETT

- Diagnostic positif
  - CIV conotroncale
  - Tronc commun Ao - AP
- Analyse de la valve troncale (nbr feuillets, fonction)
- Disposition coronaire
- Retentissement (dilatation cavités gauches)
- Lésions associées

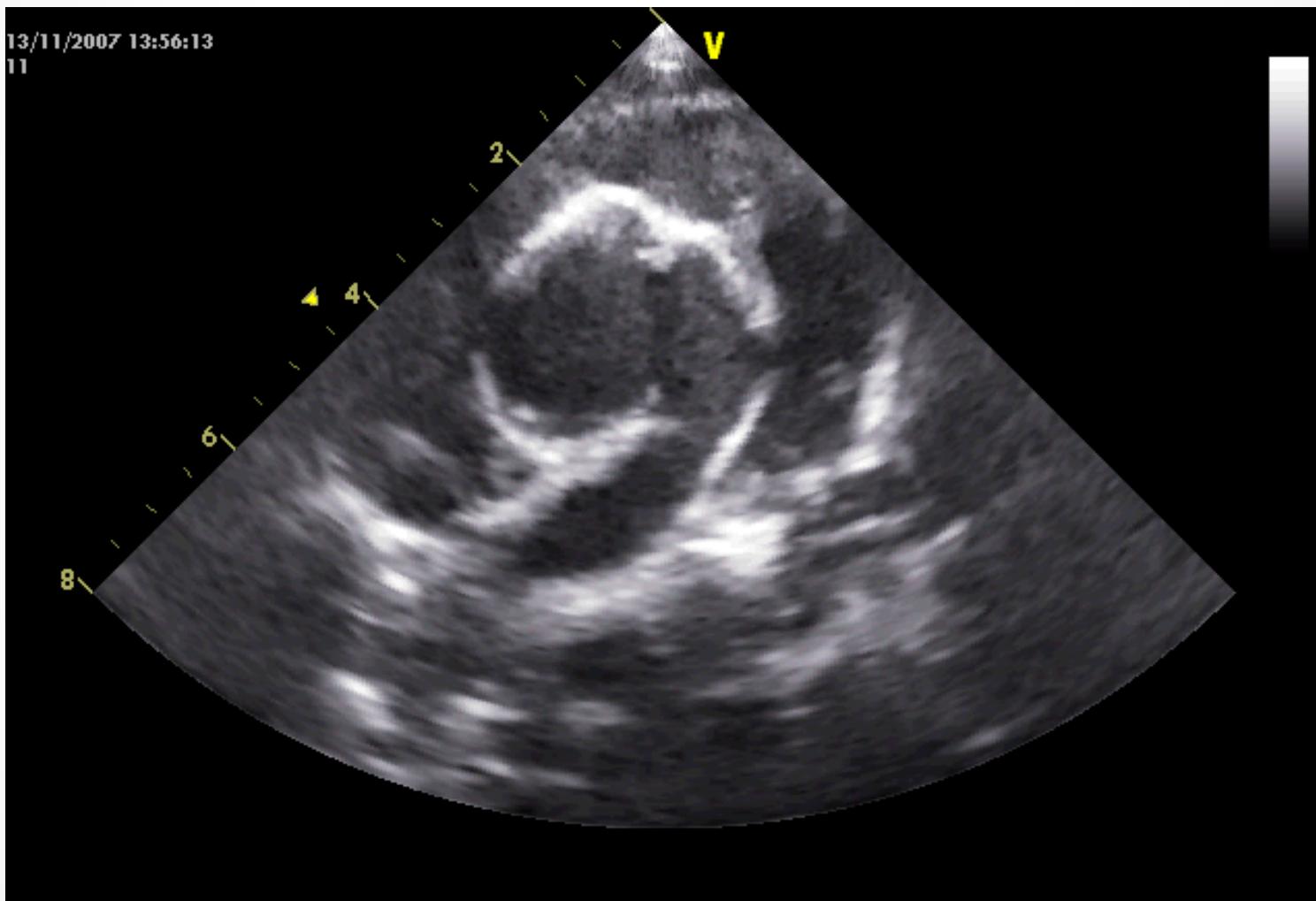


# ETT

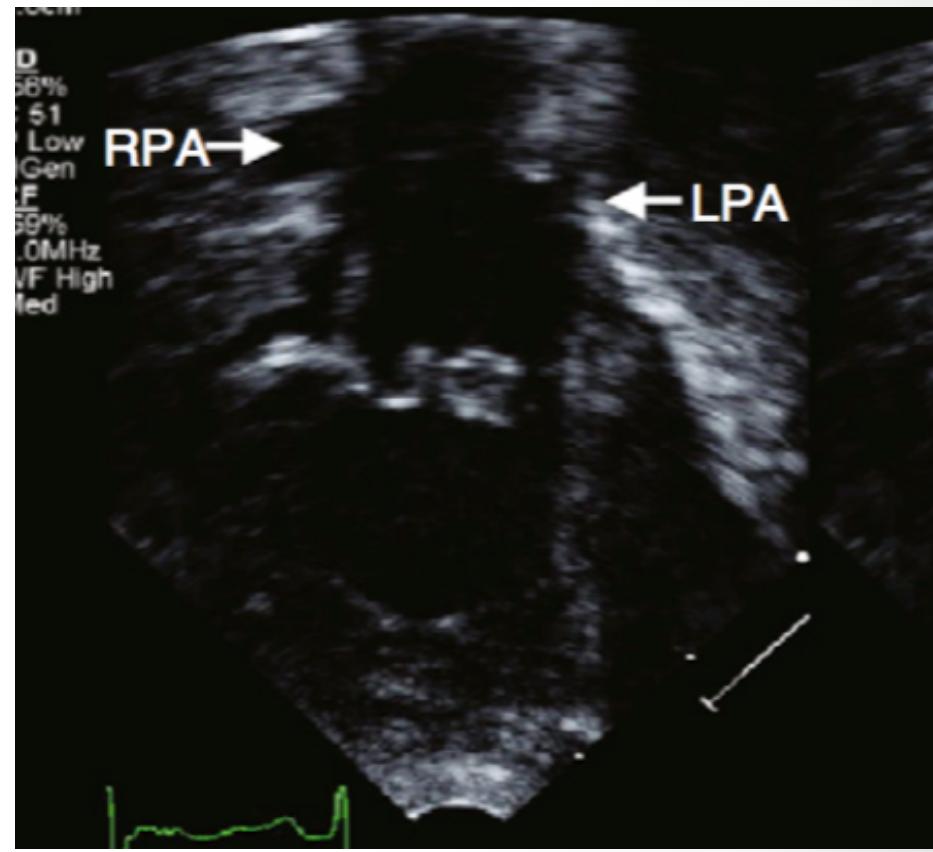
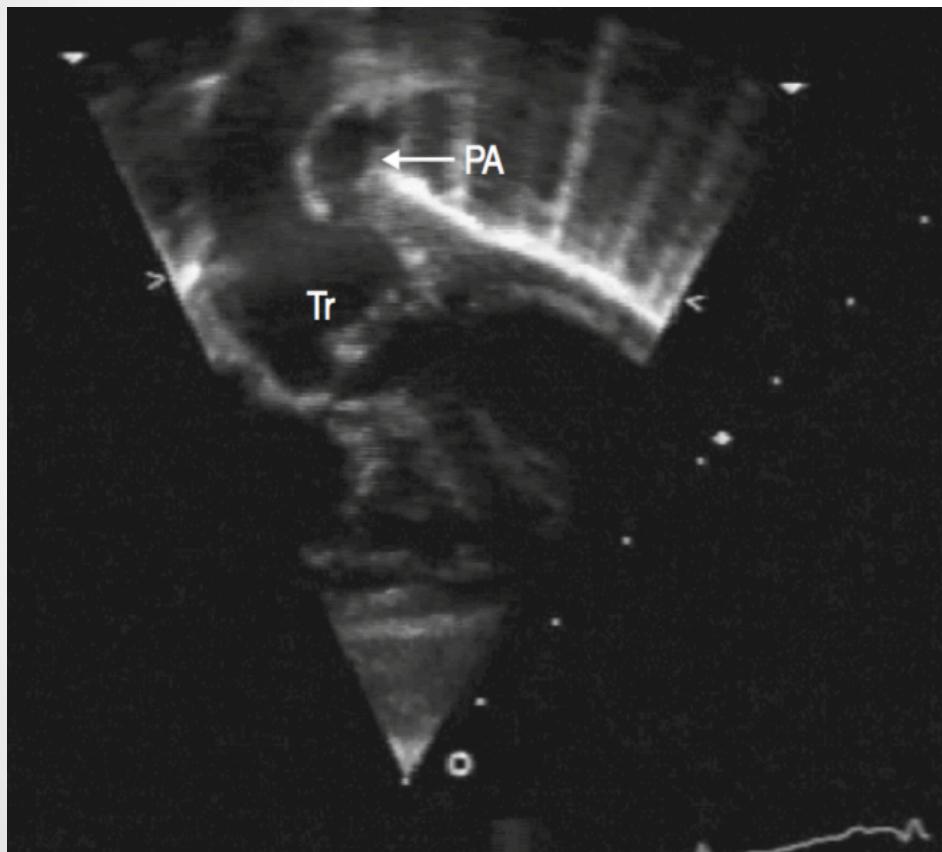


CIV conotroncale

# ETT

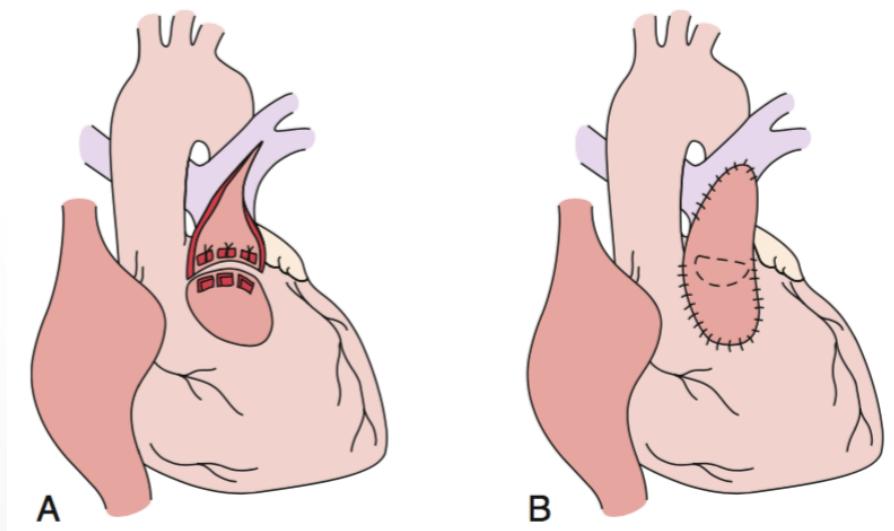


# ETT

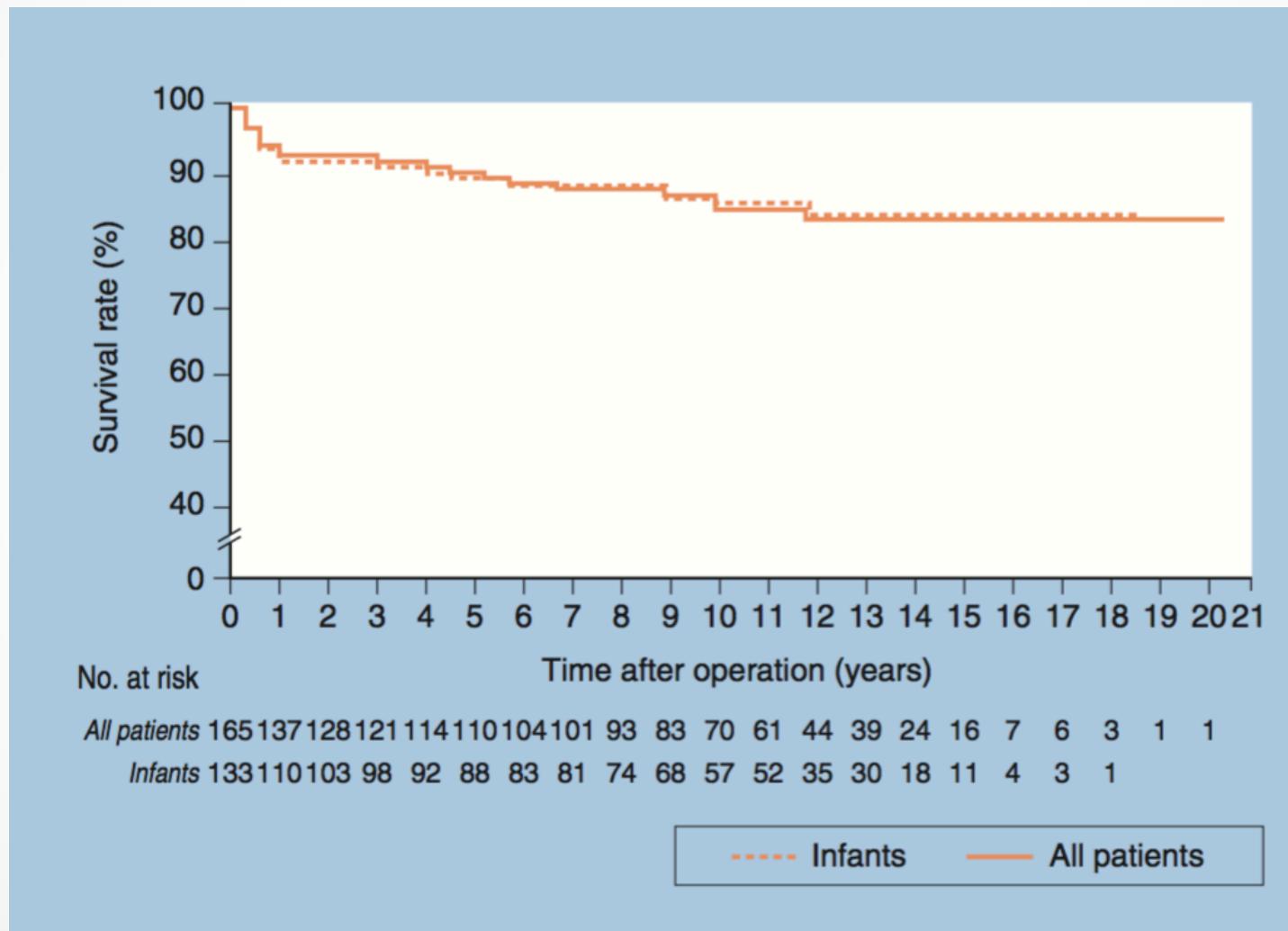


# PRISE EN CHARGE PRÉOPÉRATOIRE

- Gestion du shunt en jouant sur les RVS / RVP
- Diurétiques si signes congestifs
- Chirurgie pour cure complète avant 1 mois

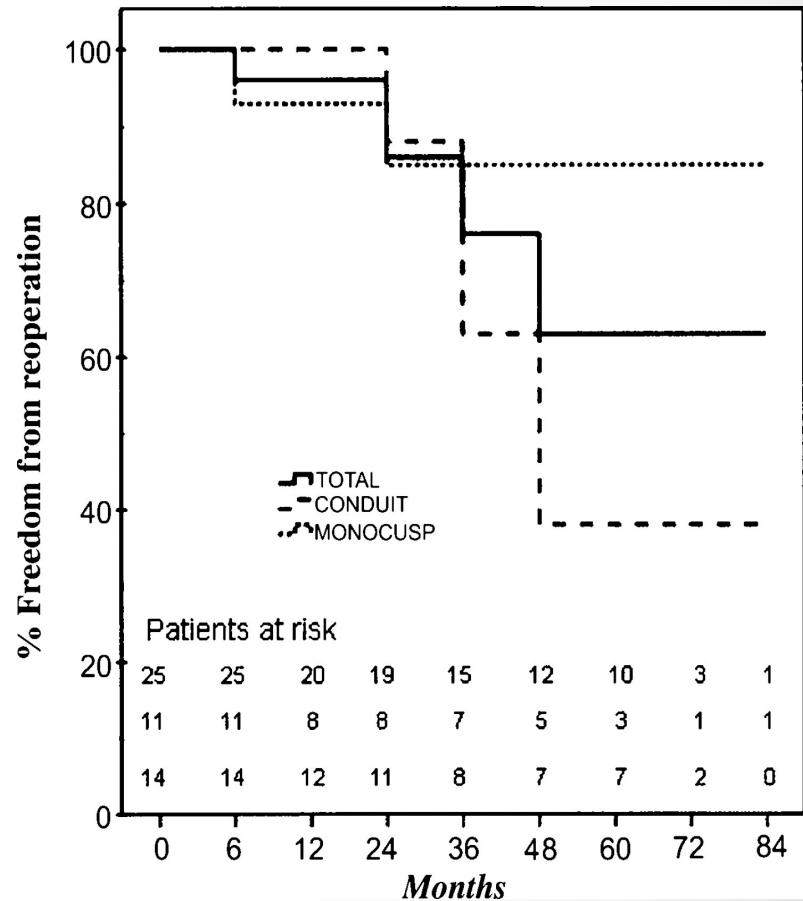


# DEVENIR À LONG TERME



# COMPLICATIONS

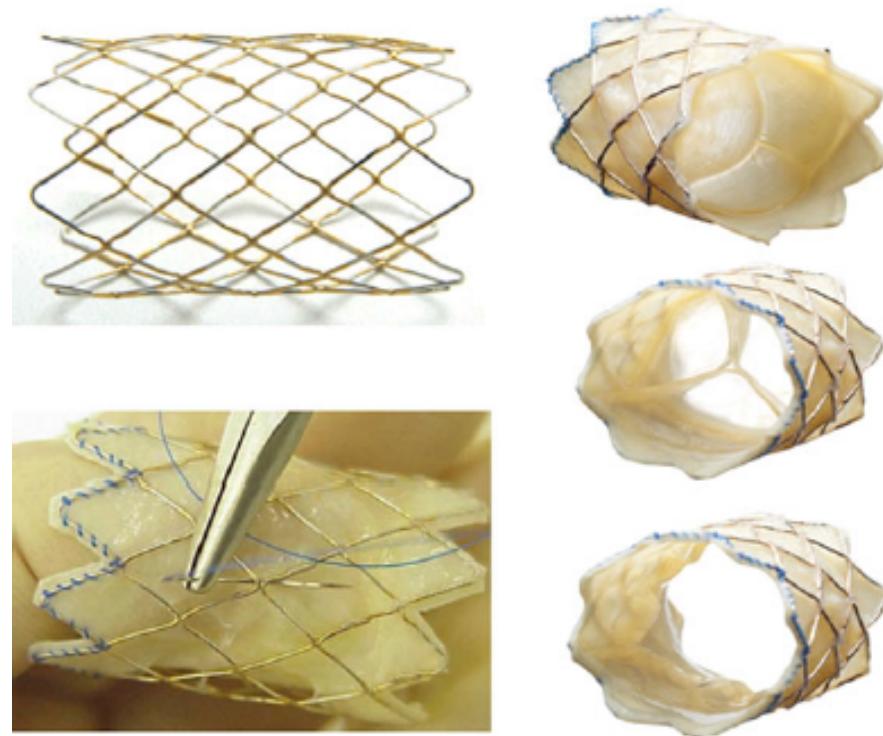
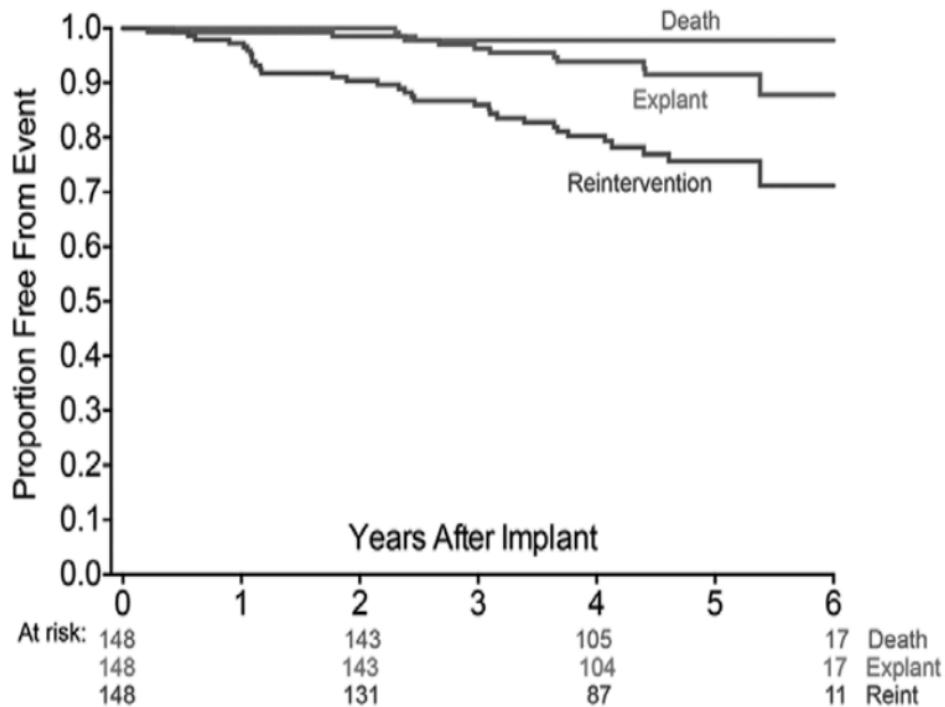
- Dysfonction voie droite
- Sténose branches pulmonaires
- Valve troncale
- CIV résiduelle
- Dilatation aorte ascendante
- Dysfonction VG
- Arythmies



# VALVULATION PERCUTANEE

## Clinical and Hemodynamic Outcomes up to 7 Years After Transcatheter Pulmonary Valve Replacement in the US Melody Valve Investigational Device Exemption Trial

John P. Cheatham, MD; William E. Hellenbrand, MD; Evan M. Zahn, MD;  
Thomas K. Jones, MD; Darren P. Berman, MD; Julie A. Vincent, MD; Doff B. McElhinney, MD



MELODY VALVE

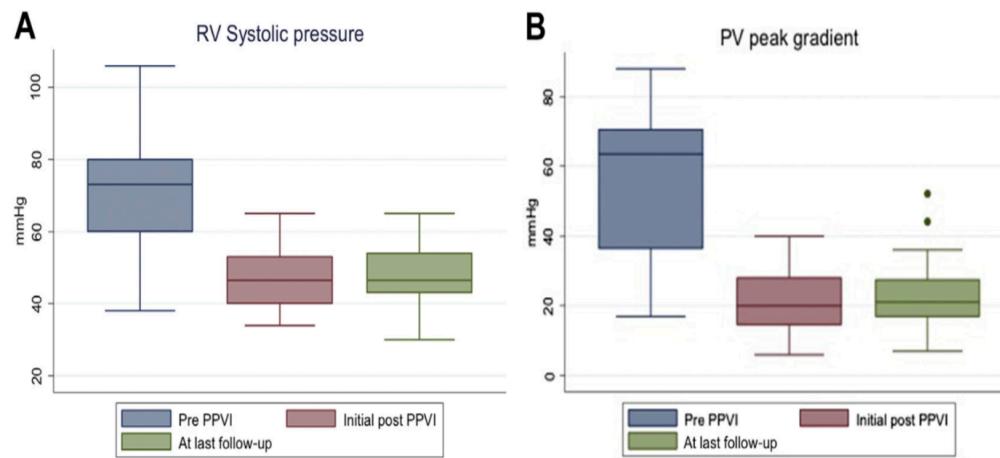
# VALVULATION PERCUTANEE

## Transcatheter Pulmonary Valve Replacement With the Edwards Sapien System



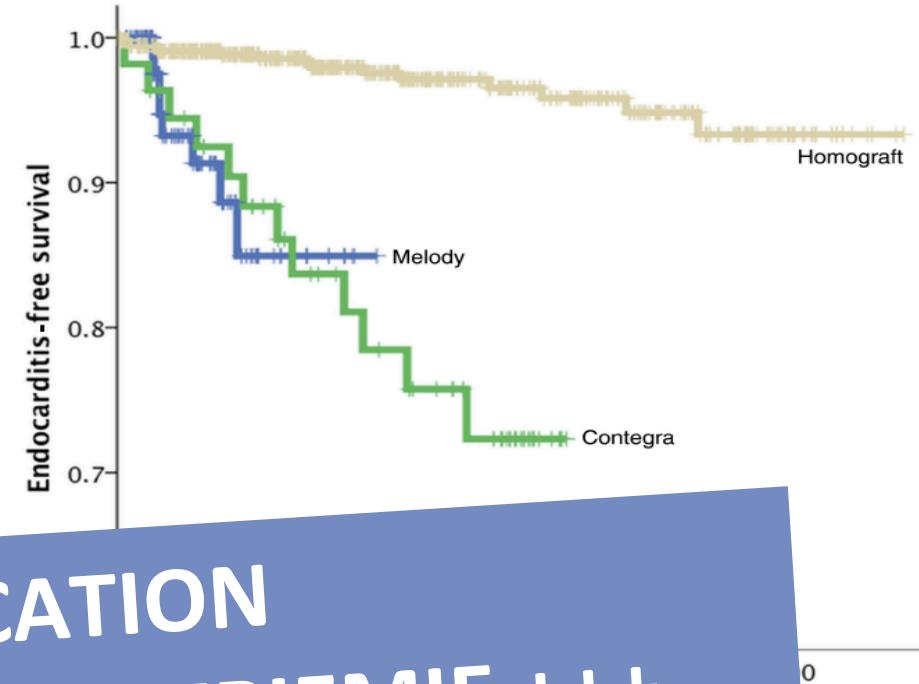
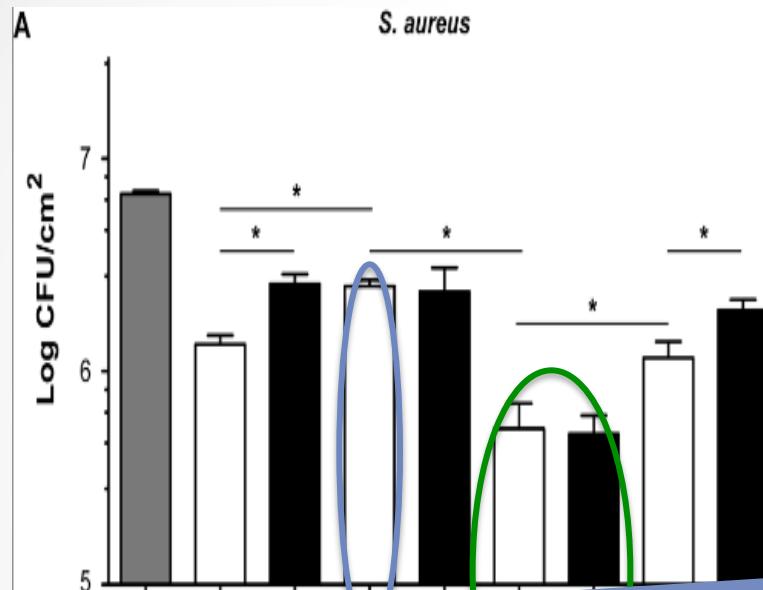
### The Toronto Experience

William M. Wilson, MBBS,\* Lee N. Benson, MD,† Mark D. Osten, MD,\* Ashish Shah, MD,\* Eric M. Horlick, MDCM\*



SAPIEN VALVE

# ENDOCARDITE VALVE MELODY



EDUCATION  
PREVENTION BACTERIEMIE +++

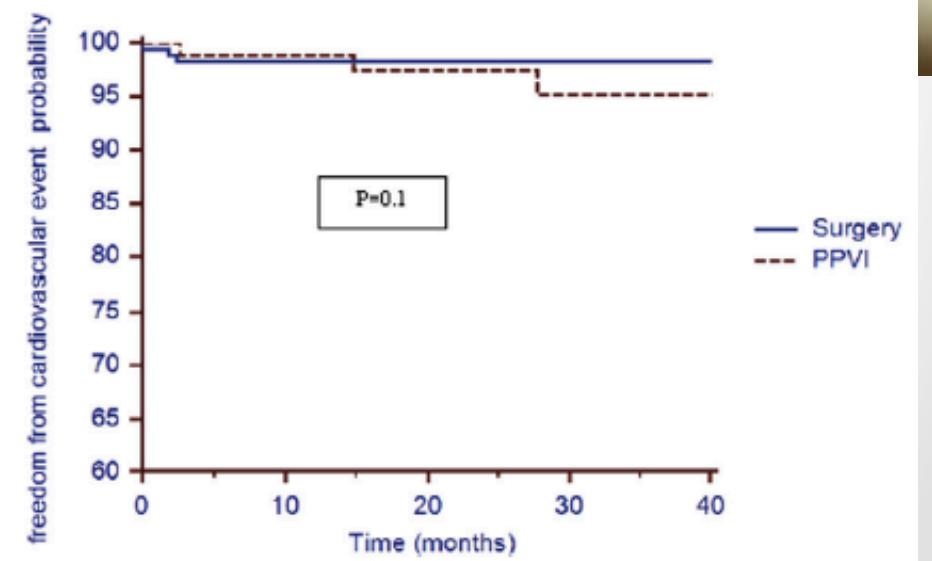
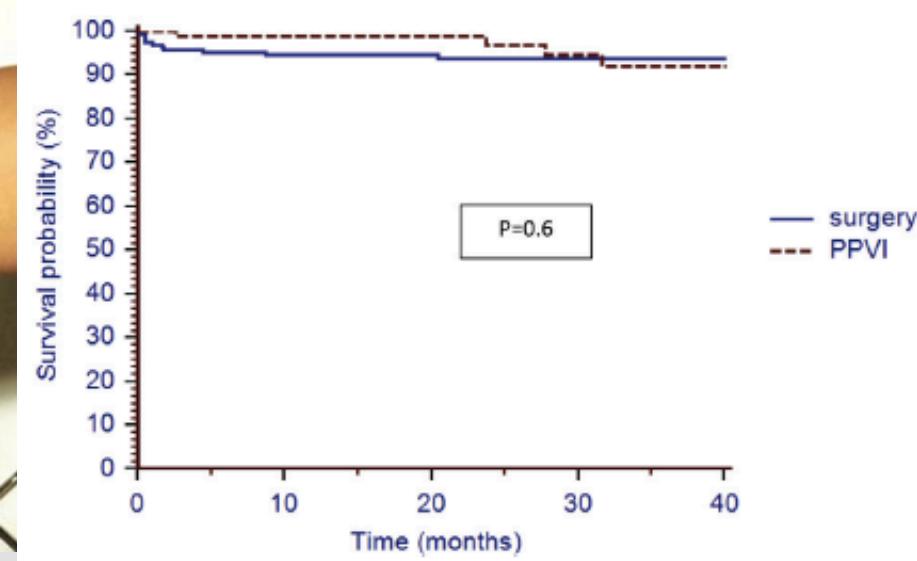
Substrat valvulaire - VJB

Malekzadeh-Milani et al. JCTS 2014

Van Dijck et al. Heart 2014

Jalal et al. IJC 2015

# PERSPECTIVE



# Conclusion

- Cardiopathie à sang mélangé
- Evaluation lésions associées
- Réparation chirurgicale avant 1 mois
- Réintervention sur la voie d'éjection droite
- Techniques percutanées

