POSTER SESSION 1: Lung Transplantation

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Outcome of Heart-lung or Double-lung transplantation in Pulmonary Hypertension Secondary to Congenital Heart Diseases

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MTAP : Physiopathologie et innovation thérapeutique

Introduction

Heart and lung transplantation or double lung transplantation with shunt closure is a curative option for patients with Listed n=90 (emergency list n=19)

3.5 months [11j-14m]

pulmonary arterial hypertension secondary to congenital heart diseases. Its benefit remains controversial given the slow evolution of the disease. We aim to investigate outcome of patients with CHD and PAH listed for transplantation.

Methods

• We investigated outcomes of 90 patients with PAH-CHD listed for transplantation in a single center.

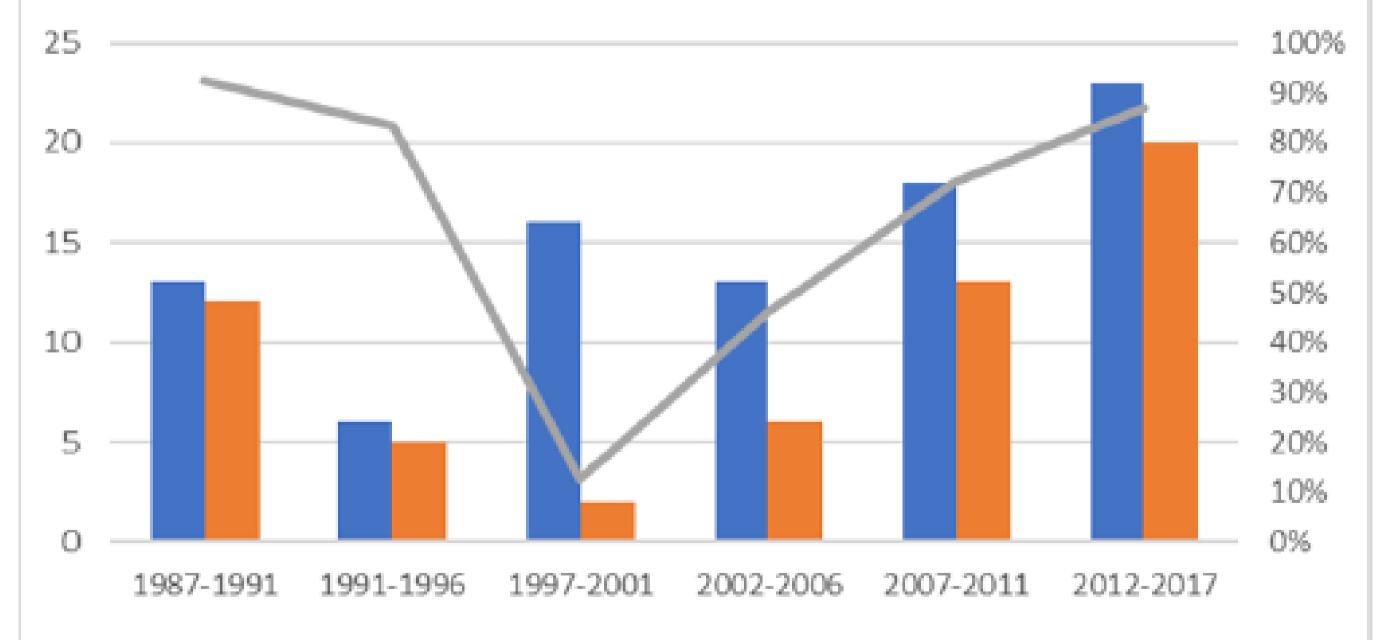
Results

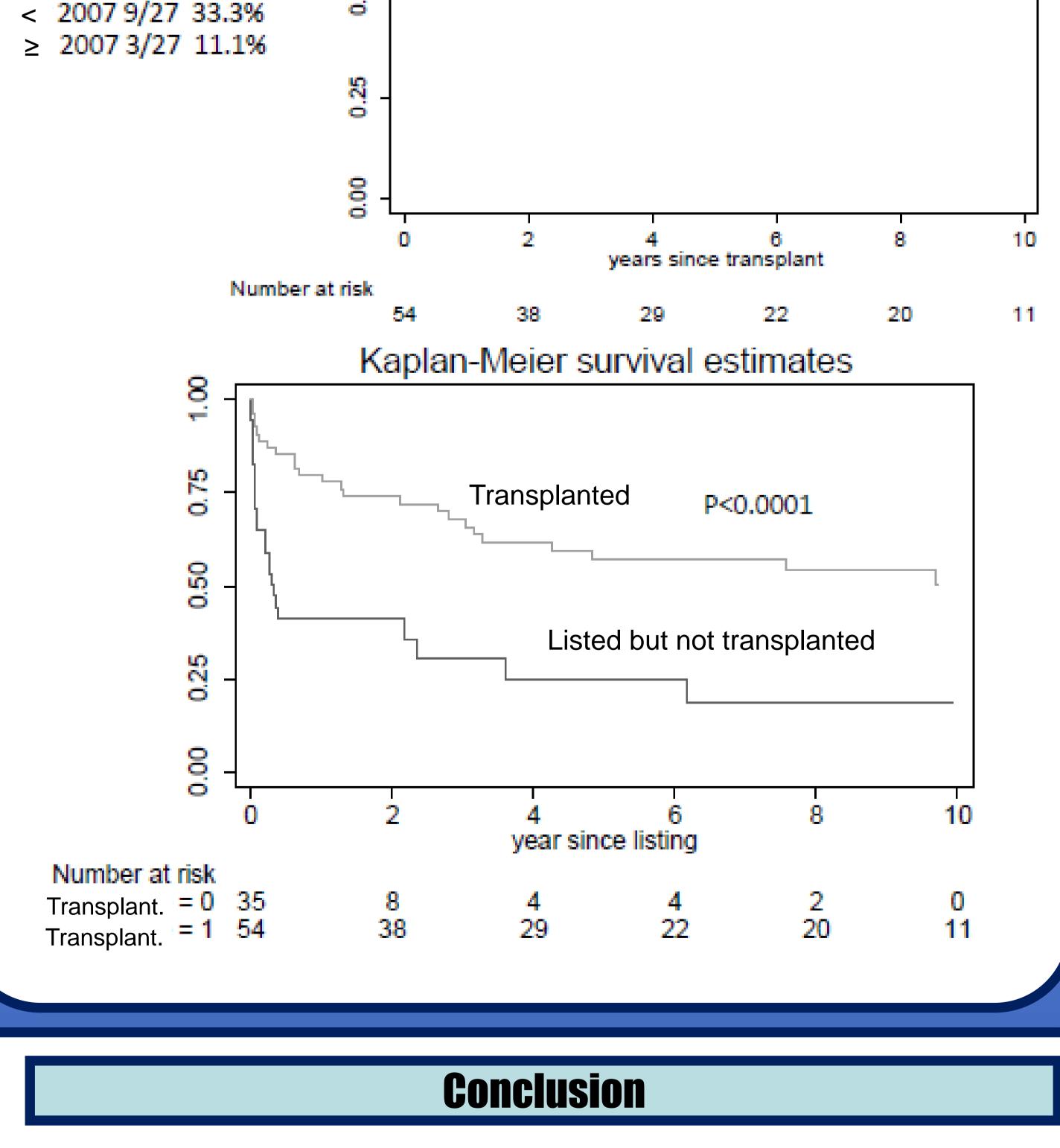
 Patients had Eisenmenger syndrome in 66 cases (75%) and post corrective surgery PAH in 22 cases (25%)

	n	nyha	Freq.	Percent
Initial CHD		2 3	2	2.33
ASD	29	3 4	35 49	40.70 56.98
VSD	24	Total	86	100.00
PDA	9	·		
ТА	4			
SV	10	position shunt	Enca	Dencent
AVSD	3		Freq.	Percent
Other	11	absent mixte	4 5	4.55
Previous CHD surgery	32 (35.6%)	post pre	49 30	55.68 34.09
Palliativesurgery	11	Total	88	100.00
CHD repair	21	. o cu i	00	200.00

Transplantation n=54 no transplantation n=36Deaths n=24 Emergency list available in France since 2006 (HLT) and 2007 (Lung transplant) **Transplantation rate** : < 2007 : 27/48 (56.2%) ≥ 2007 27/42 (64.3%) p=NS **Transplantation delay:** < 2007 : 3.1 months [0-12.4] ≥ 2007 3.9 [0.7-18.7] p=NS Mortality rate on list < 2007 : 19/48 (39.5%) ≥ 2007 5/42 (11.9%) p=0.004 Post tranplantation Kaplan-Meier survival estimate In hospital mortality 13 (24%)

- Mean age was 32.5 ± 10.5 yo (10 patients < 18 yo)
- 6'WT 336 ± 108 m
- Right heart failure n=37 (53.6%), ascitis n=9,
- inotropic support (n=10) ECMO n=4 (TGA–ASD x2 APVR)
- Orotracheal intubation n=5
- CI Creat < 30 ml/min n=3
- mPAP 69 \pm 19 mmHg, RAP 10 \pm 9 mmHg
- Qs 2.9 \pm 1.1 l.min⁻¹.m⁻² , PVR 22 \pm 13 WU
- Spa0₂ 87 [77-91], SVC saturation 60 [52-70]





listed : transplanted — pourcentage

- Double Lung tranplantation n=8 + 3 percut. ASD closure
- Heart and lung transplantation n=46 / ECC 223 ± 55 minutes
- Post tranplant. ECMO n=10 (18.5%) / Dialysis n=18 (39.1%)
- Bleeding n=15 (27.8%)
- Ventilation duration 5 days [2-15]
- ICU duration 15 days [5-26]
- Hospital stay 33 days [23-60]

- High mortality rate on listing (>25%) / selected at-risk endstage PAH-CHD population
- **High mortality rate post tranplantation** but decreasing over time with increased experience. Transplantation in patients with PAH-CHD remains at high risk..
- Long term survival > 50% at 10 y. post tranplantation
- Transplanted patients outcome is better compared to patients listed but not transplanted