

Sun. Jul 11, 2021

Track6

JSPCCS-TSPC Joint session

JSPCCS-TSPC Joint session ( III-TSPCJS)

Heart transplantation

Chair: Naomi Nakagawa (Hiroshima City Hiroshima Citizens  
Hospital, Japan)

4:15 PM - 4:55 PM Track6 (現地会場)

[III-TSPCJS-1] Evolving strategy of mechanical bridge  
to pediatric heart transplantation : a  
25-year single center experience  
○Yih-Sharng Chen (Cardiovascular Surgery,  
National Taiwan University Hospital,  
Taiwan)

[III-TSPCJS-2] Pediatric heart transplantation in Japan  
-how we could achieve our outcome with  
small number-  
Mikiko Ishido (Department of Pediatric  
Cardiology, Tokyo Women's Medical  
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#### [III-TSPCJS-1] Evolving strategy of mechanical bridge to pediatric heart transplantation : a 25-year single center experience

○Yih-Sharng Chen (Cardiovascular Surgery, National Taiwan University Hospital, Taiwan)

#### [III-TSPCJS-2] Pediatric heart transplantation in Japan -how we could achieve our outcome with small number-

Mikiko Ishido (Department of Pediatric Cardiology, Tokyo Women's Medical University, Japan)

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### [III-TSPCJS-1] Evolving strategy of mechanical bridge to pediatric heart transplantation : a 25-year single center experience

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### [III-TSPCJS-2] Pediatric heart transplantation in Japan -how we could achieve our outcome with small number-

Mikiko Ishido (Department of Pediatric Cardiology, Tokyo Women's Medical University, Japan)

Keywords: pediatric heart transplantation, coronary vasculopathy, Everolimus

We started pediatric heart transplantation (HTx) in 2011. Before 2011, we didn't have a choice other than sending patients abroad, and thanks to the good faith and cooperation from several institutes, 123 patients received HTx in other countries. There are 6 licensed centers in Japan where pediatric heart transplantation can be carried out. Fifty-five patients received HTx in Japan. Among those 55 patients, age at HTx was  $10 \pm 5.8$  years, and waiting time was  $668 \pm 502$  days. Ventricular assist device was placed in 44 patients (76%). Survival rate up to 10 years is 97.5% which is significantly better than ISHLT data. One of the reasons we could achieve this good result is patient selection. 38/55 (69%) patients were dilated cardiomyopathy, 8/55 (15%) patients were restrictive cardiomyopathy, and only 1 patient had congenital heart disease. Because HTx is scarce and has to wait a long time in Japan, patients' compliance is very good and patient care is tailored precisely. Also, donor risks such as smoking and drug use among children are very low in Japan which could explain relatively small number of post-transplant coronary vasculopathy (CAV), thus low mortality. Including patients transplanted overseas, CAV was diagnosed in about 5% and suspected in 4% of the patients followed in Japan. Tacrolimus and MMF are used as immune-suppressants in more than half of the patients, and Tacrolimus and Everolimus are used in about 30% of the patients. Although number of patients transplanted in Japan is small, we could achieve good long term outcome.