

2023 대한심장혈관흉부외과학회

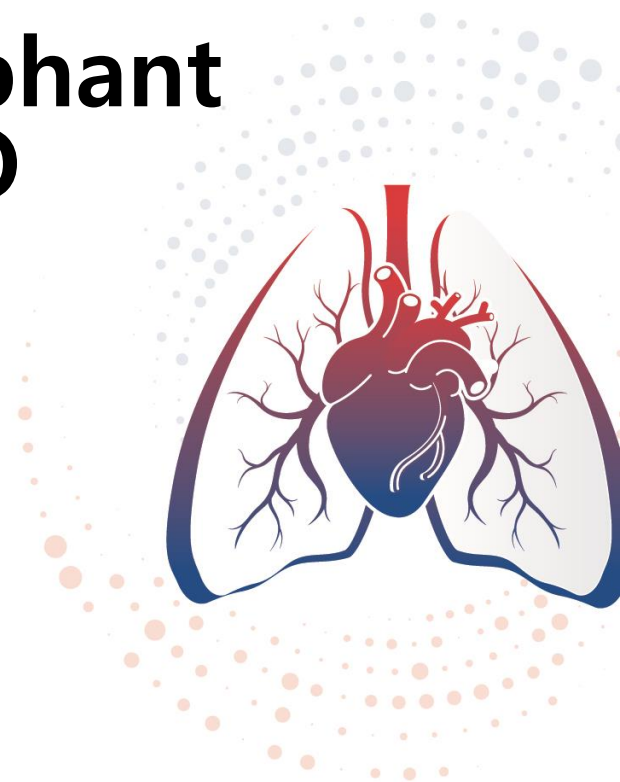
제55차 추계학술대회 & APELSO 2023

2023. 11. 02 (Thu) - 11. 04 (Sat), 그랜드 인터컨티넨탈 파르나스 서울

Two-year Outcome of Frozen Elephant Trunk using E-vita OPEN NEO

공지사항

- 소속기관이나 저자명이 드러나지 않도록 해주세요.
- 제목 슬라이드 포함 최대 6장, Font size 20 이상
- PPT 파일 작성 후 PDF로 전환해서 접수(필수)



- Frozen elephant trunk conducting with total arch replacement is able to tackle extensive aortic pathologies including thoracic aortic dissection and thoracic aortic aneurysms.
- In landscape of South Korea, the only off-the-shelf product for total arch replacement with frozen elephant trunk (TARFET) is the E-vita OPEN NEO hybrid device after April 2021.
- From first implantation of the device, it is over 2 years. Therefore, we need to check not only the early outcomes and but also mid-term outcomes.
- In this study, we evaluate the two-year clinical outcomes of using the E-vita Open NEO™ hybrid prosthesis for TARFET for extensive aortic pathologies.

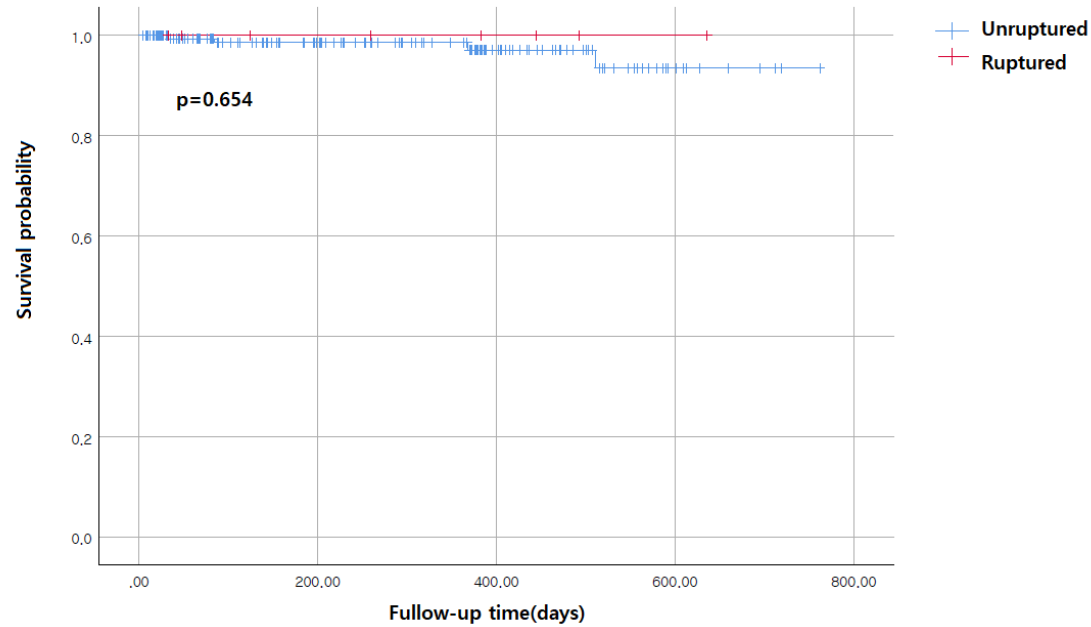
- Patients
 - All consecutive patients who underwent TARFET with the E-vita Open NEO hybrid prosthesis in our center between April 2021 and July 2023.
 - The patient group was divided into cases of rupture and cases of un-rupture
- Endpoint
 - Primary end point
 - In-hospital mortality
 - Secondary end point
 - Stroke
 - Spinal cord injury
 - Redo-sternotomy due to bleeding
 - f/u mortality
 - f/u all aortic procedure
- Methods
 - X2 test or fisher exact test
 - Student t-test
 - Kaplan-Meire analysis
 - Log rank test

Endpoint	Total (n = 179)	Un-ruptured(n=170)	Ruptured(n=9)	P-value
In-hospital mortality	3(1.7)	2(1.2)	1(1.1)	0.14
Stroke	3(1.7)	3(1.8)	0	>0.99
Spinal cord injury	3(1.7)	3(1.8)	0	>0.99
Redo-sternotomy due to bleeding	5(2.8)	5(2.9)	0	>0.99

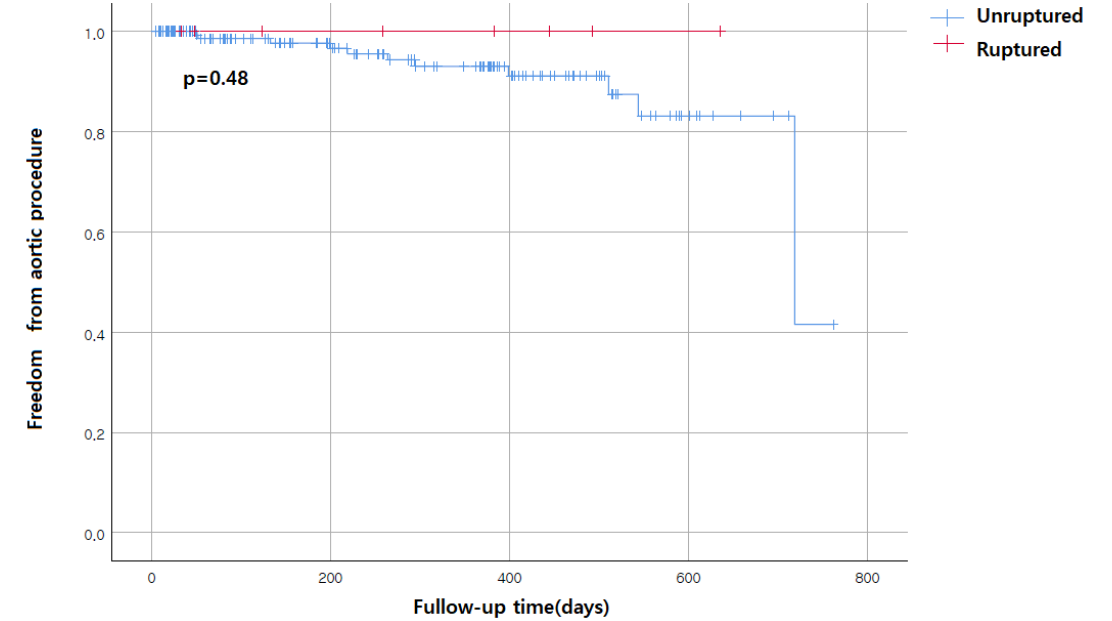
Endpoint	Total (n = 176)	Un-ruptured(n=168)	Ruptured(n=8)	P-value
F/u duration(day)	277±203	276±203	302±222	0.80
F/u mortality	4(2.3)	4(2.4)	0	>0.99
F/u aortic procedure	11(6.3)	11(6.5)	0	>0.99

*No. (%) or Mean±SD

Results 2



	Unruptured	Ruptured
6-month survival probability	0.99	1.00
1-year survival probability	0.99	1.00



	Unruptured	Ruptured
6-month freedom from aortic procedure	0.98	1.00
1-year freedom from aortic procedure	0.93	1.00

- The TARFET procedure using E-vita Open NEO demonstrates favorable early results and mid-term outcomes, even in cases of ruptured patients.
- However, given the relatively short follow-up duration, additional validation is essential to ascertain the outcomes over the longer term.