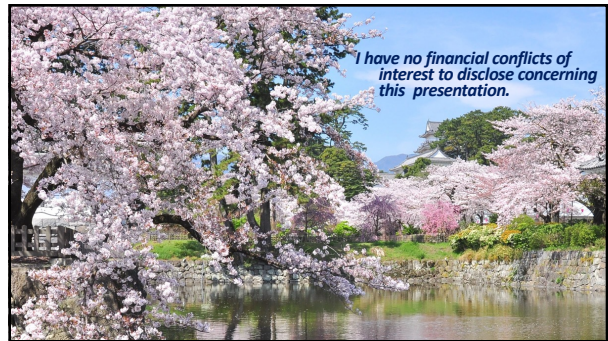


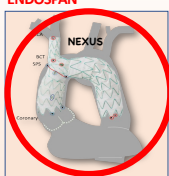


**Comparative Late Results  
with 2-Branched Endograft (Relay – Terumo)  
and A Single Branched Device (Nexus – Endospan)  
Versus  
Debranching for Treatment of Zone 0 Arch Lesions**

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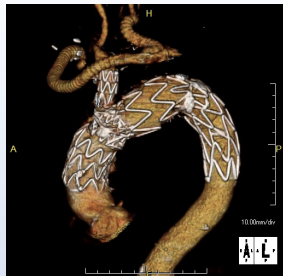


**Branch Device for Zone 0 Arch Repair**

TERUMO	GORE	ENDOSPAN
		
<b>32 cases</b> <i>Antegrade</i>	<b>2 case</b> <i>Retrograde</i>	<b>4 cases</b> <i>Anatomical</i>

*Tunnel structure*

**NEXUS (Endospan)**



7-year follow-up	
Mortality	0
Aortic events	0
<b>Endoleak</b>	<b>0</b>
<b>Migration</b>	<b>0</b>

**Relay (TERUMO) Double Side Branch Device**

**Study Design**

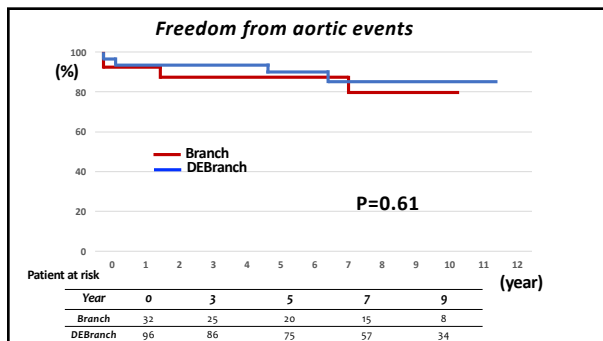
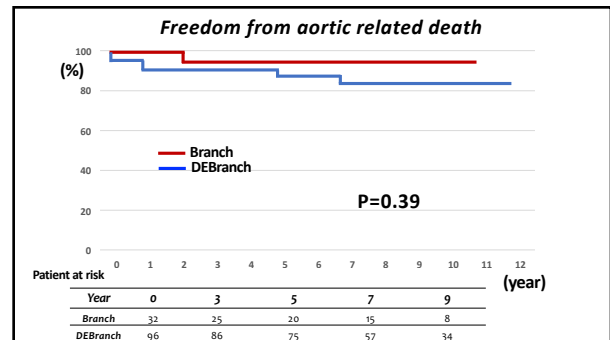
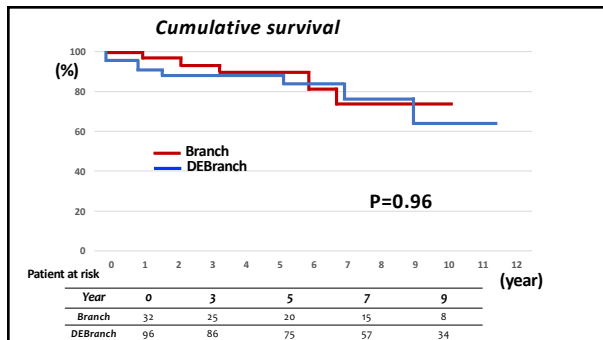
✓ Branch (n=32)	✓ DeBranch (n=96)
Branched TEVAR with Relay branch device	Zone 0 landing debranching TEVAR with normal ascending aorta

## Patients' Profile

	Branch (n=32)	DEBranch (n=96)	P value
Age (y, mean± SD)	79.9 ± 6.6	73.0 ± 9.2	.003
Sex (male / female)	22 / 10	39 / 12	.094
TAA / DAA	26 / 6	61 / 35	.667
Elective / Emergent	32 / 0	51 / 0	1.00
Cerebrovascular disease(n, %)	5 (15.6)	16 (16.7)	.861
Coronary artery disease (n, %)	9 (28.1)	21 (21.9)	.472
Previous CV surgery (n, %)	3 (9.4)	11 (11.5)	.655

## Procedural and Early Results

	Branch (32)	DEBranch (96)	P value
<b>Procedural results</b>			
Operation time (min)	221 ± 45	282 ± 74	.002
Bleeding (ml)	982 ± 939	2198 ± 1454	.003
Extubation at OR (n, %)	24 (75.0)	14 (14.9)	<.001
<b>Early results</b>			
Hospital stay (day, range)	9.5 ± 3.1	19.6 ± 9.3	<.001
30-day mortality (n, %)	0	0 (0)	1.00
In-hospital death (n, %)	0	5 (5.2)	<.001
Complication (n, %)	3 (9.3)	8 (8.3)	.667
Disabling Stroke (n, %)	3 (9.3)	2 (2.1)	<.001
Paraparesis (n, %)	0	0	
Mediastinitis (n, %)	0	1 (1.0)	



**THERE WAS NO SIGNIFICANT DEFERENCE BETWEEN 2 GROUPS.**

*However,*  
from a standpoint of Stroke,

Disabling Stroke (n, %)	Branch 3 (9.3)	DEBranch 2 (2.1)	<.001
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**Debranching TEVAR might be preventing stroke is absolutely critical!! the better option at the present time!!**

**Branched TEVAR for Residual Aortic Dissection  
N=6**

**No STROKE**

**Cervical Branch Devices**

*The development of new cervical branch devices is mandatory.*

Excluder	13	0	0
Relay	6	3	50
Excluder	6	1	17

Veith 2024

**Thank you for your time and attention**