

OUTCOMES OF TRUNCUS ARTERIOSUS REPAIR IN CHILDREN

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Declaration of interest

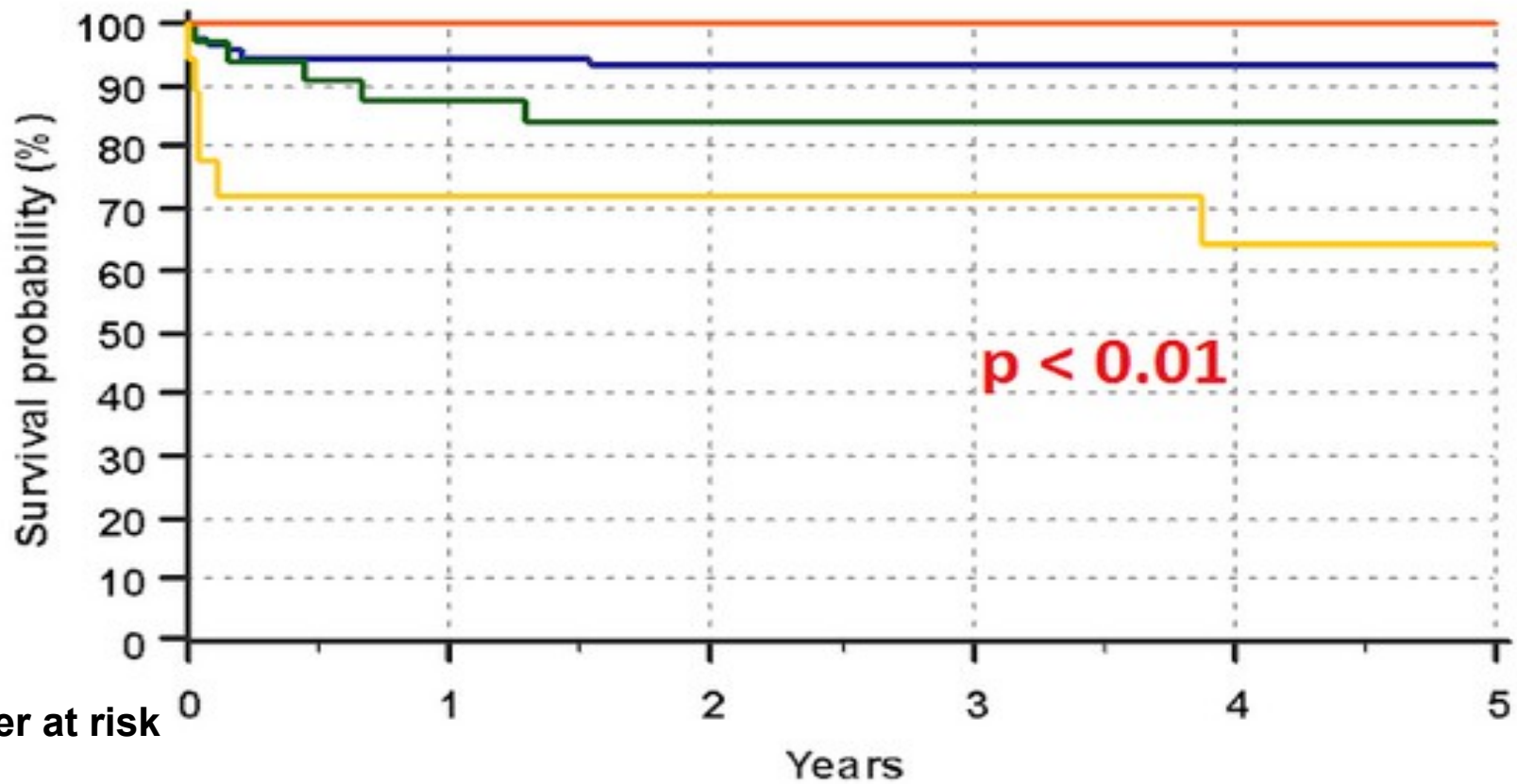
- None

Patient Characteristics

- From January 2000 to February 2018

Variable	Number (%)
DEMOGRAPHIC CHARACTERISTICS	
Total patients	n = 147
Prenatal diagnosis	75 (51%)
Male/Female	72(48,9%) /75(51,1%)
Premature	10(6,8%)
Associated comorbidity	17 (11,6%)
Genetic syndrom	32(21,7%)
22q1.1	26(17,7%)

Survival



Number at risk

0 1 2 3 4 5

Years

- Group CAT A1

89 84 82 76 72 67

- Group CAT A2

32 28 26 24 23 22

- Group CAT A3

8 6 6 6 6 5

- Group CAT A4

17 12 11 11 8 7

Risk factor of mortality

Multivariate analysis for mortality

- TV quadricuspidia	HR = 3,15	[1,20-8,31]	p=0.02
- Xenograft bovine	HR = 2,38	[0,86-6,42]	p=0.04

Univariate analysis for mortality

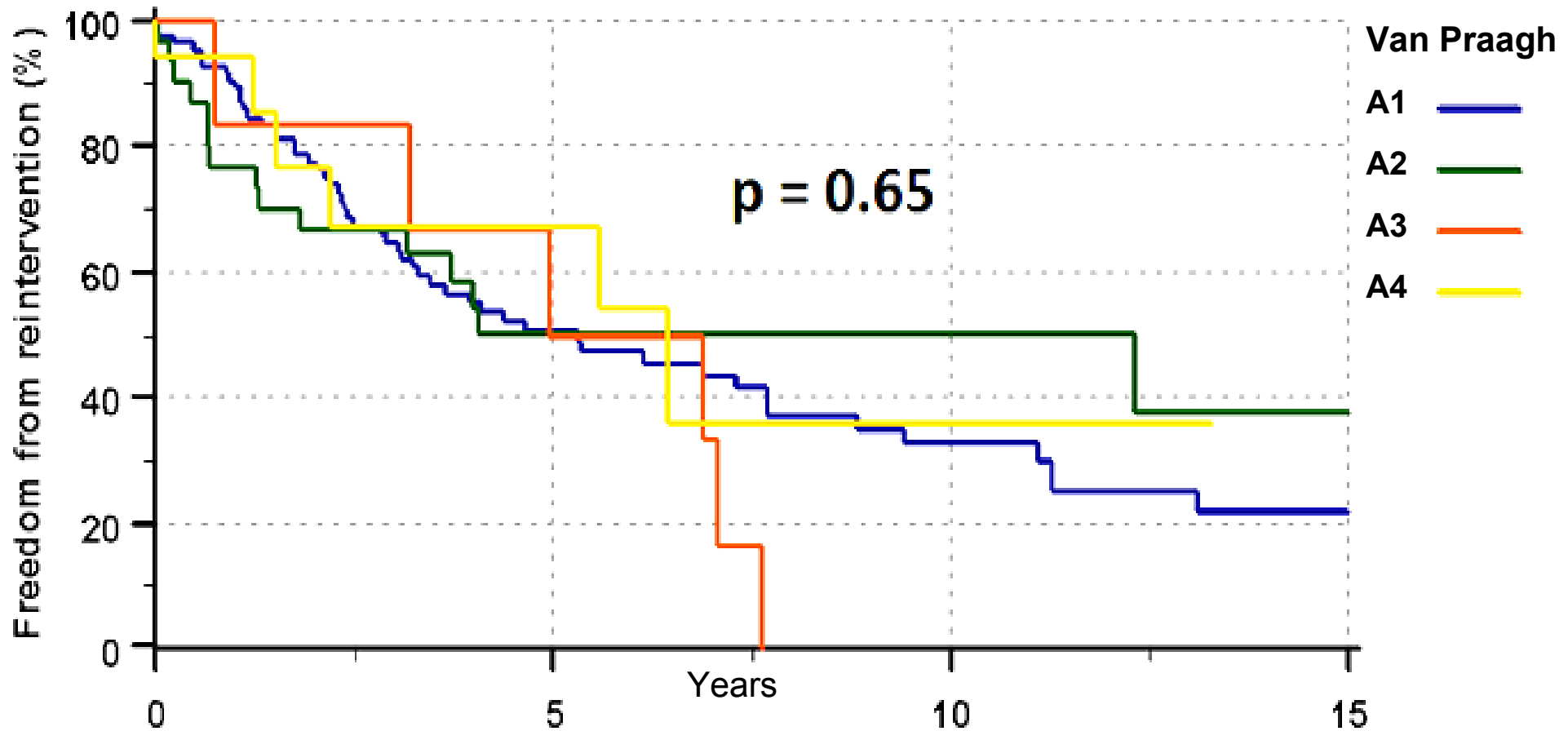
Anatomy

- TV quadricuspidia	HR = 2,9985	[1,15 - 7,77]	p = 0,0239
- Coronary anomalies	HR = 8,1811	[3,14 - 21,25]	p < 0,0001
- Type A4	HR = 4,7471	[1,75 - 12,86]	p = 0,0022

Biventricular repair strategy

- Age at repair < 15 days	HR= 4,4335	[1,55 - 12,60]	p= 0,0052
- Bovine valved xenograft	HR = 3,03	[1,17 – 7,88]	p= 0,0225

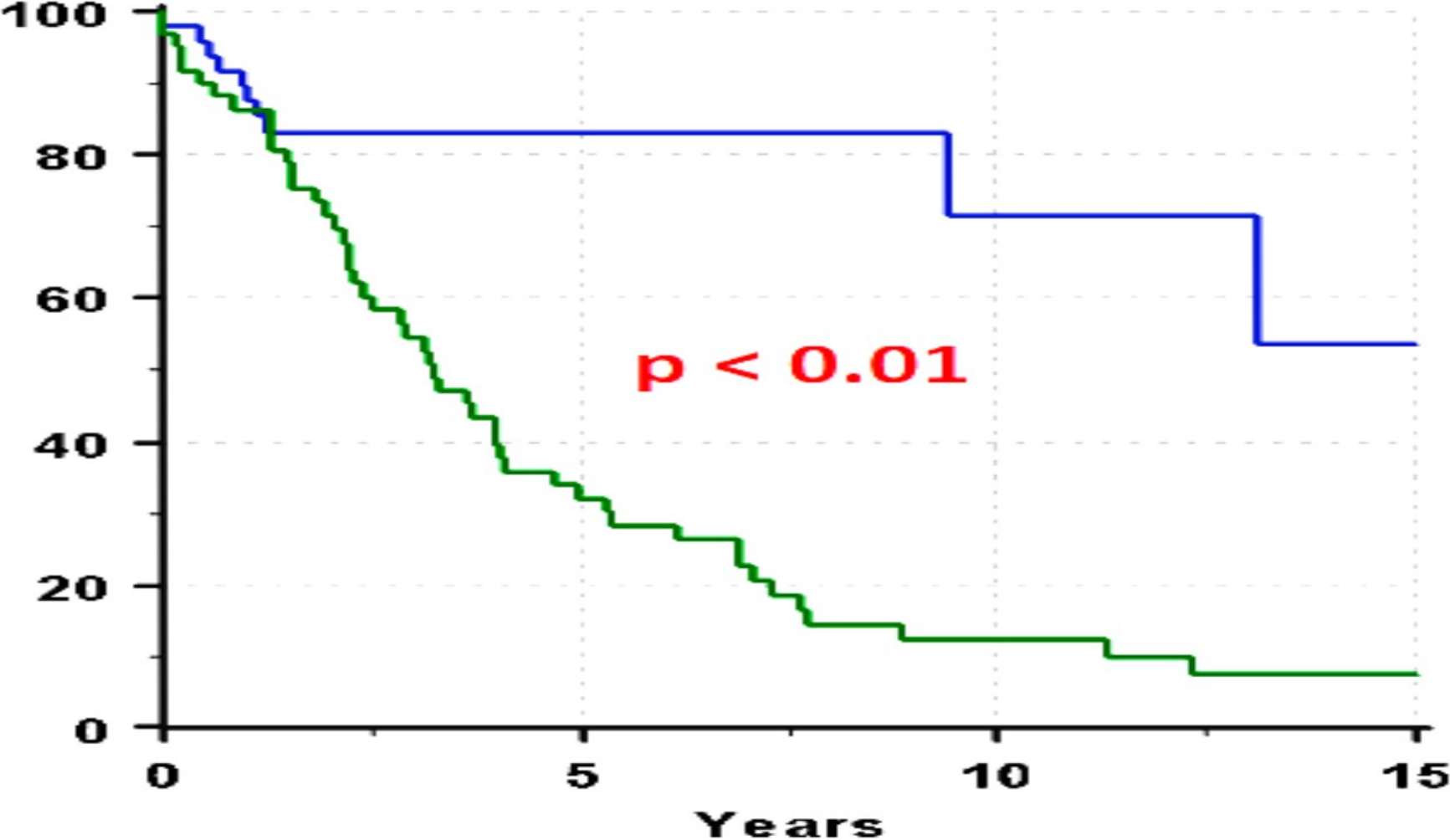
Re intervention



Number at risk

• <u>Group CAT A1</u>	89	32	14	4
• <u>Group CAT A2</u>	32	12	4	3
• <u>Group CAT A3</u>	8	3	0	0
• <u>Group CAT A4</u>	17	5	1	0

Freedom from reintervention compare autologous connection by left atrial appendage and xenografts



Number at risk

	0	5	10	15
<u>Autologous connection</u>	50	21	5	2
<u>Xenograft</u>	65	17	6	3

Univariate analysis for reintervention

RVOT reconstruction

Bovine valved xenograft HR = 1,6267 [1,12 - 2,51] p = 0,0470

Porcine valved xenograft HR = 2,4633 [1,54 - 3,92] p = 0,0002

Autologous connection HR = 0,2461 [0,12 - 0,47] p < 0,0001

Conclusion

Survival :

- Overall survival of CATs is quite good
- TA A4 have a significantly lower survival than other types
- Main risks factors of mortality : Quadricuspid truncal valve, coronary anomalies and bovine xenograft

Re intervention :

- They becoming an homogeneous population concerning the timing of re intervention
- Main risk factor of re intervention : Xenograft