

<u>First Author</u>	<u>Number of patients</u>	<u>Male Sex (%)</u>	<u>Age (years±SD)</u>	<u>BMI (kg/m2) (mean±SD)</u>	<u>Aortic Valve pathology</u>	<u>Aortic Valve morphology</u>
Arutyunyan	170	49.4%	64.1±9.7	29.5±5.5	AS = 162 AR = 3 IE = 5	BAV = 52 TAV = 118
Koechlin	35	69%	72	24.7	AS = 22 NS = 13	BAV = 8 TAV = 27
Krane	103	67%	54±16.4	26.9±5.4	AS = 80 AR = 23	BAV = 81 TAV = 22
Lida	57	N/A	77.5 ± 8.8	N/A	AS = 57	BAV = 17 TAV = 40
Mourad	52	63.5%	60 ± 14	28.6 ± 4.9	AS = 20 AR = 14 AS+AR= 13 IE= 5	UAV = 5 BAV = 20 TAV = 27
Nguyen	9	44.4%	47.4	N/A	AR = 5 AS = 3 AS+AR = 1	BAV = 3 TAV = 6
Reuthebuch	30	66.7%	66.8±10.6	26.4±5.7	AR = 12 AS = 7 AS+AR = 11	BAV = 6 TAV = 24
Ozaki	850	52.2%	71	N/A	AS = 534 AR = 254 AS+AR= 61 IE = 19	UAV = 28 BAV = 224 TAV = 596 QAV = 2
Sheng	36	52.8%	46.7± 16.6	25.5 ± 4.9	AR = 25 AS = 5 IE = 6	BAV = 10 TAV = 26

Table 1 – Pre-operative patient demographics, aortic pathology and morphology. AS = Aortic stenosis. AR = Aortic regurgitation. AS+AR = Mixed aortic regurgitation and stenosis. BMI = Body mass index. IE = infective endocarditis. BAV = Bicuspid aortic valve. MS = Median Sternotomy. NS = Not stated. N/A = Not available. QAV = Quadricuspid aortic valve. TAV = Tricuspid aortic valve. UAV = Unicuspid aortic valve

<u>First Author</u>	<u>Procedure</u>	<u>CPB time</u>	<u>Cross-clamp</u>	<u>MS (%)</u>	<u>Isolated AV</u>
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	time (mean±SD)	(Mins) (mean±SD)	(Mins) (mean±SD)		reconstruction (%)
Arutyunyan	221.3±45.2	112.2±38.9	86.2±22.7	96.5%	55.3%
Koechlin	205.5	112	84.5	100%	57%
Krane	N/A	166±29	135±20	100%	N/A
Lida	N/A	166.3±35.2	124.2±25.1	100%	100%
Mourad	N/A	132	80	80.8%	34.6%
Nguyen	N/A	153.6	106.8	0%	100%
Ozaki	N/A	150.4±30.4	106.8±27.5	100%	56.1%
Reuthebuch	209.4±35.3	104.8±38.5	85.2±18.1	100%	56.67%
Sheng	N/A	114.3±39.5	90.3±19.2	100%	69.4%

Table 2 – Intra-operative data in patients underwent aortic valve neocuspidization. Procedure, CPB and cross clamp time included for isolated aortic valve neocuspidization only. CPB = Cardiopulmonary bypass. MS = Median Sternotomy. Mins = Minutes. N/A = Not available.

<u>First Author</u>	<u>Moderate or Severe AR (%)</u>	<u>Stroke (%)</u>	<u>Mortality (%)</u>	<u>Post-op IE (%)</u>	<u>Reintervention (%)</u>
Arutyunyan	0.6%	0%	2.9%	0%	0%

Koechlin	3%	6%	9%	3%	3%
Krane	2.91%	0%	0.97%	0.97%	3.88%
Lida	1.75%	N/A	3.5%	1.75%	3.5%
Mourad	0%	N/A	1.92%	9.61%	9.61%
Nguyen	11.1%	N/A	0%	0%	11.1%
Ozaki	7.3%	N/A	2.7%	1.53%	1.76%
Reuthebuch	0%	6.67%	3.33%	3.33%	3.33%
Sheng	0%	0%	0%	0%	0%

Table 3 – Post-operative outcome in patients underwent aortic valve neocuspidization. All data including in-hospital stay or 30-day after the procedure. AR = Aortic regurgitation. IE = Infective endocarditis. N/A = not available. Mortality is defined as in-hospital or 30-day mortality