

SUPPLEMENTARY FILE**Supplementary table S1** Baseline characteristics of women with repaired coarctation versus women with unrepaired coarctation

	Total cohort (n=303)	Repaired CoA (n=274)	Unrepaired CoA (n=29)	P-value
Demographics				
Age (mean, SD)	29.9 (5.3)	29.9 (5.4)	29.7 (4.8)	0.311
Nulliparity (%)	155 (51.2)	139 (50.7)	16 (55.2)	0.649
BMI (median, IQR)	23.3 (21.4-27.4)	23.4 (21.5-27.4)	22.3 (19.9-25.7)	0.177
Emerging country (%)	63 (20.8)	50 (18.2)	13 (44.8)	0.001
Pre-pregnancy characteristics				
Current smoker (%)	9 (3.6)	8 (3.6)	1 (4)	0.917
Hypertension (%)	81 (27.1)	71 (26.2)	10 (35.7)	0.281
Diabetes mellitus (%)	6 (2)	6 (2.3)	0 (0)	0.413
Atrial fibrillation (%)	1 (0.3)	1 (0.4)	0 (0)	0.745
Signs of heart failure (%)	8 (2.6)	7 (2.6)	1 (3.4)	0.778
LVEF <40% (%)	7 (2.3)	6 (2.2)	1 (3.4)	0.668
Cardiac medication use before pregnancy (%)	127 (41.9)	115 (42)	12 (41.4)	0.951
Beta blocker	37 (12.2)	37 (13.5)	0 (0)	0.035
ACE-inhibitor	9 (3.0)	8 (2.9)	1 (3.4)	0.873
Calcium channel blocker	2 (0.7)	11 (4.0)	0 (0)	0.272
Diuretics	11 (3.6)	2 (0.7)	0 (0.0)	0.644
NYHA class I (%)	266 (87.8)	243 (88.7)	23 (79.3)	0.143
NYHA class II (%)	31 (10.2)	25 (9.1)	6 (20.7)	0.051

NYHA class III (%)	3 (1)	3 (1.1)	0 (0)	0.571
NYHA class IV (%)	0 (0)	0 (0)	0 (0)	n.a.
Bicuspid aortic valve (%)	123 (40.6)	114 (41.6)	9 (31)	0.270
Ventricular septal defect (%)	37 (12.2)	35 (12.8)	2 (6.9)	0.358
Persistent arterial duct (%)	17 (5.6)	16 (5.8)	1 (3.4)	0.595
Aortic dilatation >40mm (%)	11 (3.6)	11 (4.0)	0 (0)	0.272
Valve replacement (%)	15 (5)	15 (5.5)	0 (0)	0.196
Aortic stenosis (%)	33 (10.9)	29 (10.6)	4 (13.8)	0.598
Mild	20 (6.6)	17 (6.2)	3 (10.3)	
Moderate	13 (4.3)	12 (4.4)	1 (3.4)	
Severe	0 (0)	0 (0)	0 (0)	
Aortic regurgitation (%)	62 (17.3)	49 (18)	3 (10.3)	0.201
Mild	40 (13.3)	39 (14.3)	1 (3.4)	
Moderate	12 (4)	10 (3.7)	2 (6.9)	
Severe	0 (0)	0 (0)	0 (0)	
Mitral stenosis (%)	4 (1.3)	4 (1.5)	0 (0)	0.511
Mitral regurgitation (%)	52 (17.4)	44 (16.2)	8 (27.6)	0.045
Mild	47 (15.7)	41 (15.1)	6 (20.7)	
Moderate	5 (1.7)	3 (1.1)	2 (6.9)	
Severe	0 (0)	0 (0)	0 (0)	

P-values were calculated between the groups repaired and unrepaired coarctation, using chi-square tests and Mann-Whitney tests where appropriate. CoA: aortic coarctation. IQR: inter-quartile range. BMI: body mass index, in kg/m². LVEF: left ventricular ejection fraction. ACE-inhibitor: angiotensin-converting enzyme inhibitor. NYHA class: New York Heart Association Functional Classification.

Supplementary table S2 Baseline characteristics of women with bicuspid aortic valve versus women without bicuspid aortic valve.

	Total cohort (n=303)	BAV (n=123)	No BAV (n=180)	P-value
Demographics				
Age (median, IQR)	30.4 (26.4-33.8)	30.3 (25.8-33.9)	30.4 (26.6-33.8)	0.709
Nulliparity (%)	155 (51.2)	62 (50.4)	93 (51.7)	0.829
BMI (median, IQR)	23.3 (21.4-27.4)	23.4 (21.5-27.8)	23.1 (21.2-27.3)	0.395
Emerging country (%)	63 (20.8)	28 (22.8)	35 (19.4)	0.484
Pre-pregnancy characteristics				
Current smoker (%)	9 (3.6)	4 (3.9)	5 (3.4)	0.837
Hypertension (%)	81 (27.1)	30 (24.6)	51 (28.8)	0.419
Diabetes mellitus (%)	6 (2)	2 (1.7)	4 (2.3)	0.719
Atrial fibrillation (%)	1 (0.3)	0 (0)	1 (0.8)	0.226
Signs of heart failure (%)	8 (2.6)	3 (2.4)	5 (2.8)	0.851
LVEF <40% (%)	7 (2.3)	1 (0.8)	6 (3.3)	0.152
Cardiac medication use before pregnancy (%)	127 (41.9)	53 (43.1)	74 (41.1)	0.732
Beta blocker	33 (10.9)	20 (11.1)	13 (10.6)	0.882
ACE-inhibitor	4 (1.3)	4 (3.3)	0 (0.0)	0.015
Diuretics	2 (0.7)	2 (1.6)	0 (0.0)	0.086
Antiplatelet therapy	11 (3.6)	8 (6.5)	3 (1.7)	0.027
Vitamin K antagonist	2 (0.7)	1 (0.8)	1 (0.8)	0.786
NYHA class I (%)	266 (87.8)	108 (87.8)	158 (87.8)	0.994
NYHA class II (%)	31 (10.2)	11 (8.9)	20 (11.1)	0.541
NYHA class III (%)	3 (1)	2 (1.6)	1 (0.6)	0.355
NYHA class IV (%)	0 (0)	0 (0)	0 (0)	n.a.

Unrepaired coarctation (%)	29 (9.6)	9 (7.3)	20 (11.1)	0.270
Ventricular septal defect (%)	37 (12.2)	11 (8.9)	26 (14.4)	0.151
Persistent arterial duct (%)	17 (5.6)	6 (4.9)	11 (6.1)	0.647
Aortic dilatation >40mm (%)	11 (3.6)	10 (8.1)	1 (0.6)	0.001
Valve replacement (%)	15 (5)	8 (6.5)	7 (3.9)	0.303
Aortic stenosis (%)	33 (10.9)	26 (21.1)	7 (3.9)	<0.001
Mild	20 (6.6)	15 (12.2)	5 (2.8)	
Moderate	13 (4.3)	11 (8.9)	2 (1.1)	
Severe	0 (0)	0 (0)	0 (0)	
Aortic regurgitation (%)	62 (17.3)	33 (26.9)	19 (10.7)	0.001
Mild	40 (13.3)	27 (22)	13 (7.3)	
Moderate	12 (4)	6 (4.9)	6 (3.4)	
Severe	0 (0)	0 (0)	0 (0)	
Mitral stenosis (%)	4 (1.3)	3 (2.4)	1 (0.6)	0.162
Mitral regurgitation (%)	52 (17.4)	27 (22.1)	25 (14)	0.060
Mild	47 (15.7)	26 (21.3)	21 (11.8)	
Moderate	5 (1.7)	1 (0.8)	4 (2.2)	
Severe	0 (0)	0 (0)	0 (0)	

P-values were calculated between the groups bicuspid aortic valve and no bicuspid aortic valve, using chi-square tests and Mann-Whitney tests where appropriate. BAV: bicuspid aortic valve. IQR: inter-quartile range. BMI: body mass index, in kg/m². LVEF: left ventricular ejection fraction. ACE-inhibitor: angiotensin-converting enzyme inhibitor. NYHA class: New York Heart Association Functional Classification.

Supplementary table S3 Cardiovascular, obstetric and fetal outcome of women with repaired coarctation versus women with unrepaired coarctation.

	Total cohort (n=303)	Repaired CoA (n=274)	Unrepaired CoA (n=29)	P-value
Cardiovascular outcomes				
Maternal mortality (%)	0 (0)	0 (0)	0 (0)	n.a.
Hospital admission for cardiac reasons (%)	23 (7.6)	17 (6.2)	6 (20.7)	0.005
Heart failure (%)	10 (3.3)	9 (3.3)	1 (3.4)	0.963
Hospital admission for uncontrolled hypertension (%)	8 (2.6)	4 (1.5)	4 (13.8)	0.000
Atrial fibrillation or flutter (%)	3 (1)	3 (1.1)	0 (0)	0.571
Ventricular tachyarrhythmias (%)	0 (0)	0 (0)	0 (0)	n.a.
Endocarditis (%)	0 (0)	0 (0)	0 (0)	n.a.
Thromboembolic event (%)	0 (0)	0 (0)	0 (0)	n.a.
Aortic dissection (%)	0 (0)	0 (0)	0 (0)	n.a.
Acute coronary syndrome during pregnancy (%)	0 (0)	0 (0)	0 (0)	n.a.
Overall MACE (%)	13 (4.3)	12 (4.4)	1 (3.4)	0.814
Obstetric and fetal outcome				
Hypertensive disorders (%)	16 (5.3)	14 (5.1)	2 (12.5)	0.682
Pregnancy-induced hypertension	8 (2.6)	6 (2.2)	2 (6.9)	0.133
Preeclampsia	8 (2.6)	8 (2.9)	0 (0.0)	0.351
Eclampsia or HELLP	0 (0)	0 (0)	0 (0)	n.a.
Post-partum hemorrhage (%)	5 (1.7)	5 (1.8)	0 (0.0)	0.463
Caesarean section (%)	143 (49.7)	123 (47.3)	20 (71.4)	0.015

Emergency Caesarean section	31 (10.2)	26 (9.5)	5 (17.2)	0.190
For cardiac reasons	7 (2.3)	6 (2.2)	1 (3.4)	0.668
Fetal mortality >24wks (%)	1 (0.3)	1 (0.4)	0 (0.0)	0.745
Neonatal mortality (%)	4 (1.3)	4 (1.5)	0 (0.0)	0.512
IUGR (%)	12 (4.0)	10 (3.5)	2 (6.9)	0.394
Preterm delivery (%)	25 (9.1)	21 (8.5)	4 (14.3)	0.313
Low apgar score <7 (%)	15 (5)	14 (5.1)	1 (3.4)	0.695
Low birth weight <2.5kg (%)	20 (6.6)	17 (6.2)	3 (10.3)	0.393
Mean birth weight (SD)	3155.1 (514.4)	3139.1 (562.4)	3073.1 (613.1)	0.639

P-values were calculated between the groups repaired and unrepaired coarctation, using chi-square tests and unpaired t-tests where appropriate. CoA: aortic coarctation. MACE: major adverse cardiac event. HELLP: hemolysis, elevated liver enzymes and low platelets syndrome. IUGR: intrauterine growth restriction.

Supplementary table S4 Cardiovascular, obstetric and fetal outcome of women with bicuspid aortic valve versus women without bicuspid aortic valve.

	Overall cohort (n=303)	BAV (n=123)	No BAV (n=180)	P- value
Cardiovascular outcome				
Maternal mortality (%)	0 (0)	0 (0)	0 (0)	n.a.
Hospital admission for cardiac reasons (%)	23 (7.6)	7 (5.7)	16 (8.9)	0.302
Heart failure (%)	10 (3.3)	1 (0.8)	9 (5.0)	0.045
Hospital admission for uncontrolled hypertension (%)	8 (2.6)	2 (1.6)	6 (3.3)	0.363
Atrial fibrillation or flutter (%)	3 (1)	3 (2.4)	0 (0)	0.035
Ventricular tachyarrhythmias (%)	0 (0)	0 (0)	0 (0)	n.a.
Endocarditis (%)	0 (0)	0 (0)	0 (0)	n.a.
Thromboembolic event (%)	0 (0)	0 (0)	0 (0)	n.a.
Aortic dissection (%)	0 (0)	0 (0)	0 (0)	n.a.
Acute coronary syndrome during pregnancy (%)	0 (0)	0 (0)	0 (0)	n.a.
Overall MACE (%)	13 (4.3)	4 (3.3)	9 (5.0)	0.461
Obstetric and fetal outcome				
Hypertensive disorders (%)	16 (5.3)	3 (2.4)	13 (7.2)	0.068
Pregnancy-induced hypertension	8 (2.6)	2 (1.6)	6 (3.3)	0.363
Preeclampsia	8 (2.6)	1 (0.8)	7 (3.9)	0.101
Eclampsia or HELLP	0 (0)	0 (0)	0 (0)	n.a.
Post-partum hemorrhage (%)	5 (1.7)	3 (2.4)	2 (1.1)	0.373
Caesarean section (%)	143 (49.7)	59 (49.6)	84 (49.7)	0.983

Emergency Caesarean section	31 (10.2)	14 (11.4)	17 (9.4)	0.585
For cardiac reasons	7 (2.3)	3 (2.4)	4 (2.2)	0.902
Fetal mortality >24wks (%)	1 (0.3)	1 (0.8)	0 (0)	0.226
Neonatal mortality (%)	4 (1.3)	0 (0)	4 (2.2)	0.096
IUGR (%)	12 (4.0)	3 (2.4)	9 (5.0)	0.262
Preterm delivery (%)	25 (9.1)	8 (7.0)	17 (10.6)	0.297
Low apgar score <7 (%)	15 (5)	8 (6.5)	7 (3.9)	0.303
Low birth weight <2.5kg (%)	20 (6.6)	8 (6.5)	12 (6.7)	0.955
Mean birth weight (SD)	3132.8 (566.1)	3145.6 (502.9)	31220 (617.1)	0.776

P-values were calculated between the groups bicuspid aortic valve and no bicuspid aortic valve, using chi-square tests and unpaired t-tests where appropriate. BAV: bicuspid aortic valve. MACE: major adverse cardiac event. HELLP: hemolysis, elevated liver enzymes and low platelets syndrome. IUGR: intrauterine growth restriction.

Supplementary table S5 Type of coarctation correction at time of the pregnancy

	n (%)
Type known	59 (19.5%)
<i>Of which</i>	
End-to-end anastomosis	16 (27.1%)
Stent	16 (27.1%)
Balloon angioplasty	11 (18.6%)
Subclavian flap	9 (15.3%)
Dacron patch	7 (11.9%)

Appendix

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