

Supplementary Table 1. Individual BAV patient characteristics.

Patient	Sex	Age	BAV Classification*	Aortic Valve Function		Location and Aortic Diameter at Tissue Collection Site			
				Aortic Stenosis	Aortic Regurgitation	Elevated WSS	Diameter (elev. WSS)	Normal WSS	Diameter (norm. WSS)
1	M	47	Type 1, RL	Moderate-severe	Mild	Z3 GC	4.3 cm	Z3 LC	4.3 cm
2	M	37	Type 1, RL	Mild	Moderate-severe	Z2 P	4.4 cm	Z2 A	4.4 cm
3	M	55	Type 0, lateral	Moderate-severe	None	Z2 P	4.8 cm	Z2 A	4.8 cm
4	M	20	Type 1, RL	None	Moderate-severe	Z2 GC	3.6 cm	Z2 LC	3.6 cm
5	M	38	Type 1, RN	Moderate-severe	None	Z3 GC	3.9 cm	Z2 P	4.1 cm
6	M	60	Type 1, RL	Moderate-severe	Mild	Z2 GC	4.3 cm	Z2 A	4.3 cm
7	M	82	Type 0, lateral	Moderate-severe	None	Z2 GC	4.7 cm	Z2 A	4.7 cm
8	M	68	Type 1, RL	Moderate-severe	Moderate-severe	Z1 P	4.2 cm	Z1 A	4.2 cm
9	M	29	Type 1, RL	None	Moderate-severe	Z2 GC	6.3 cm	Z2 A	6.3 cm
10	M	45	Type 2, RL / RN	Moderate-severe	Moderate-severe	Z3 GC	4.1 cm	Z3 LC	4.1 cm
11	M	53	Type 2, RL / RN	Moderate-severe	Moderate-severe	Z3 GC	4.5 cm	Z3 P	4.5 cm
12	M	65	Type 1, RL	Moderate-severe	None	Z2 GC	5.0 cm	Z2 A	5.0 cm
13	M	28	Type 1, RL	None	Moderate-severe	Z2 LC	5.2 cm	Z2 A	5.2 cm
14	F	41	Type 2, RL / RN	Moderate-severe	Moderate-severe	Z2 GC	5.0 cm	Z2 A	5.0 cm
15	M	47	Type 1, RL	None	Moderate-severe	Z1 GC	4.5 cm	Z2 A	4.0 cm
16	M	57	Type 1, RL	Moderate-severe	Mild	Z2 GC	4.6 cm	Z2 A	4.6 cm
17	M	52	Type 1, RL	None	Moderate-severe	Z2 GC	4.8 cm	Z2 LC	4.8 cm
18	F	46	Type 2, RL / RN	Moderate-severe	Moderate-severe	Z2 GC	4.6 cm	Z2 A	4.6 cm
19	M	51	Type 1, RL	Moderate-severe	Moderate-severe	Z2 P	4.7 cm	Z2 A	4.7 cm
20	M	43	Type 2, RL / RN	Moderate-severe	None	Z3 P	4.0 cm	Z2 A	6.0 cm

* Sievers' BAV classification. Abbreviations: WSS = wall shear stress; RN = right coronary-non-coronary cusp fusion; RL = right-left coronary cusp fusion; Zones 1, 2 and 3 (Z1, Z2 and Z3, respectively) correspond to tissue collection zones proximal, adjacent and distal to the right pulmonary artery, respectively. Circumferential locations of tissue collection are indicated from the greater curvature (GC), lesser curvature (LC), anterior (A) or posterior (P) walls.