TABLE E1. Clinical information for individuals with reported disease causing NOTCH1 mutations

Study	Mutation	ID	Gender	Age	Valve morphology	Cusp fusion	Aortic stenosis	Aortic insufficiency	Calc	AscAA, surgery (age in y), other CV abnormalities
Garg et al.	R1108X	II-1	F		TAV	N/A	+	+	+	Dilated AscAo, AVR (65)
	"*	II-2	F		BAV	Unk	+	?	+	AVR (76)
	"	III-3	F		Dysmorphic TAV	N/A	?	?	+	
	"*	III-5	M		BAV	Unk	Severe	?	+	Dilated AscAo, AVR (26)
	"	III-6	M		BAV	Unk	?	Severe	+	AVR (33)
	"	III-8	F		BAV	Unk	?	Mild	Unk	
	"	IV-2	M		TAV	N/A	Mild	?	+	
	"	IV-4	M		BAV	Unk	?	?	Unk	VSD, MS, parachute MV
	"	V-1	M		BAV	Unk	Mild	?	+	Dilated AscAo
	H1505del	II-1	F		BAV	Unk	Severe	?	+	AoR, AVR
	"	III-1	M		BAV	Unk	?	?	Unk	MA, HLV, DORV
	"	III-2	M		BAV	Unk	Severe	?	+	AVR
Mohamed et al.	T596M		M	49	BAV	R-L, R-non	Mild	Mild	+	Dilated AscAo [4.7 cm]
	P179H		M	55	BAV	R-L	Mild	Mild	+	Dilated AscAo [5.3 cm]
McKellar et al.	A1343V		F	41	BAV with Raphé	R-L	+	?	_	AVR, graft replacement
										of AscAo [at 4.3 cm]
	P1390T		M	55	BAV	R-non	+	?	+	AVR, reduction aortoplasty [at 4.5 cm]
Current study	T1090S	TII:4	M	56	TAV	N/A	_	_	+	Dilated AscAo [4.53 cm], abnormal diastolic function

ID, Identification; Calc, calcification; AscAA, ascending aortic aneurysm; CV, cardiovascular; F, female; TAV, tricuspid aortic valve; N/A, not applicable; AscAo, ascending aorta; AVR, aortic valve repair; BAV, bicuspid aortic valve; Unk, unknown; M, male; VSD, ventral septal defect; MS, mitral stenosis; MV, mitral valve; AoR, aortic root replacement; MA, mitral atresia; HLV; hypoplastic left ventricle; DORV, double outlet right ventricle; R-L, right-left commissural fusion; R-non, right-non commissural fusion. \*Carriers assumed to have NOTCH1 mutations but this was not confirmed by sequencing.

## 000 Genotype-phenotype correlation in patients with bicuspid aortic valve and aneurysm

Kathleen C. Kent, PhD, Melissa L. Crenshaw, MD, Denise L. M. Goh, MD, and Harry C. Dietz, MD, Baltimore and Bethesda, Md; Petersburg, Fla; and Singapore, Republic of Singapore

Upon sequencing individuals from 13 families with ascending aortic aneurysm and bicuspid aortic valve, we conclude that *NOTCH1* mutations are rare and specifically relate to bicuspid aortic valve with prominent valve calcification and/or dysfunction. This apparent phenotype–genotype correlation may facilitate patient counseling and management.