Supplementary material

Supplementary Table 1: Clinical and demographic characteristics by diagnosis

		Non-syndromic (n=433)	Noonan syndrome (or RASopathies) (n=126)	Friedreich's ataxia (n=59)	Inborn error of metabolism (n=64)
Gender	**Male**	286 (66%)	83 (66%)	28 (47%)	33 (52%)
Age at presentation (years)	**<1**	62 (14%)	67 (53%)	0	30 (47)
	1-5	75 (17%)	22 (17%)	2 (3%)	16 (25)
	6-11	122 (28%)	25 (20%)	36 (61%)	13 (20%)
	12-16	174 (40%)	12 (10%)	21 (36%)	5 (8%)
Family history of HCM (n = 680)		214 (50%)	8 (6%)	9 (15%)	11 (17%)
Family history of SCD (n = 682)		45 (10.5%)	1 (1%)	2 (4%)	2 (3%)
NYHA/Ross at presentation (n = 684)	**I**	345 (80%)	77 (61%)	48 (83%)	41 (65%)
	II	71 (16%)	41 (33%)	9 (15%)	12 (19%)
	III	13 (3%)	7 (6%)	0	9 (14%)
	IV	3 (1%)	1 (<1%)	1 (2%)	1 (2%)
	SCD	18 (4.2%)	2 (1.6%)	0	0

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Cause of mortality (n=75)	**CCF**	4 (1%)	4 (3.2%)	0	4 (6.3%)
	Other CV	7 (1.6%)	4 (3.2%)	0	1 (1.6%)
	Non-CV	3 (0.7%)	5 (4%)	1 (1.7%)	8 (12.5%)
	Unknown	8 (1.8%)	2 (1.6%)	0	3 (6.3%)

Data expressed as number (%). Total number of patients is 687 unless otherwise stated. CCF = congestive cardiac failure, CV = cardiovascular