SUPPLEMENTAL MATERIAL

Supplementary Tables

Supplementary table 1: Diffusion parameters

	Amyloid n=20	HCM n=11	p	Control n=10	p
Mean diffusivity (x10^{-3} mm^2/s)					
Systole	1.37 ± 0.13	1.15 v 0.10	<0.001	1.06 ± 0.07	<0.001
Diastole	1.43±0.13	1.19 ± 0.16	<0.001	1.12 ± 0.11	<0.001
Fractional Anisotropy					
Systole	0.35 ±0.05	0.42 ± 0.05	0.001	0.45 ± 0.21	<0.001
Diastole	0.43 ± 0.06	0.53 ± 0.06	<0.001	0.56 ± 0.05	<0.001

*Data is shown as mean ± standard deviation

Supplementary table 2: Baseline characteristics of the amyloidosis patients by subtype

	ATTR n=10	**AL n=10**	p
Age (years)	69 ± 10	66 ± 7	0.40
Male Sex	7/10 (70%)	7/10 (70%)	1.00
Systolic blood pressure (mmHg)	121 ± 12	116 ± 16	0.47
Diastolic blood pressure (mmHg)	76 ± 10	68 ± 10	0.08
Heart rate (beats per minute)	61 [55:67]	69 [63:77]	0.07
Maximum wall thickness (mm)	19 [16:26]	16 [14:18]	0.06
Indexed LV end-diastolic volume (ml/m^2)	74 [64:119]	74[61:81]	0.48
Indexed LV end-systolic volume (ml/m^2)	32 [27:74]	30 [19:32]	0.17
LV ejection fraction (%)	53 ± 11	64 ± 10	0.03
Indexed LV mass (g/m^2)	135 [107:159]	94 [71:114]	0.02
Native T1 (msec)	1476 ± 68	1514 ± 68	0.27
ECV	0.51 ± 0.08	0.54 ± 0.09	0.53
Peak radial strain	0.22 ± 0.06	0.35 ± 0.12	<0.01
Peak circumferential strain	-0.10 [-0.12:-0.07]	-0.13 [-0.17:-011]	0.03
Peak longitudinal strain	-0.06 ± 0.02	-0.06 ± 0.04	0.63

*Data is shown as mean ± SD, median [IQR], n (%).

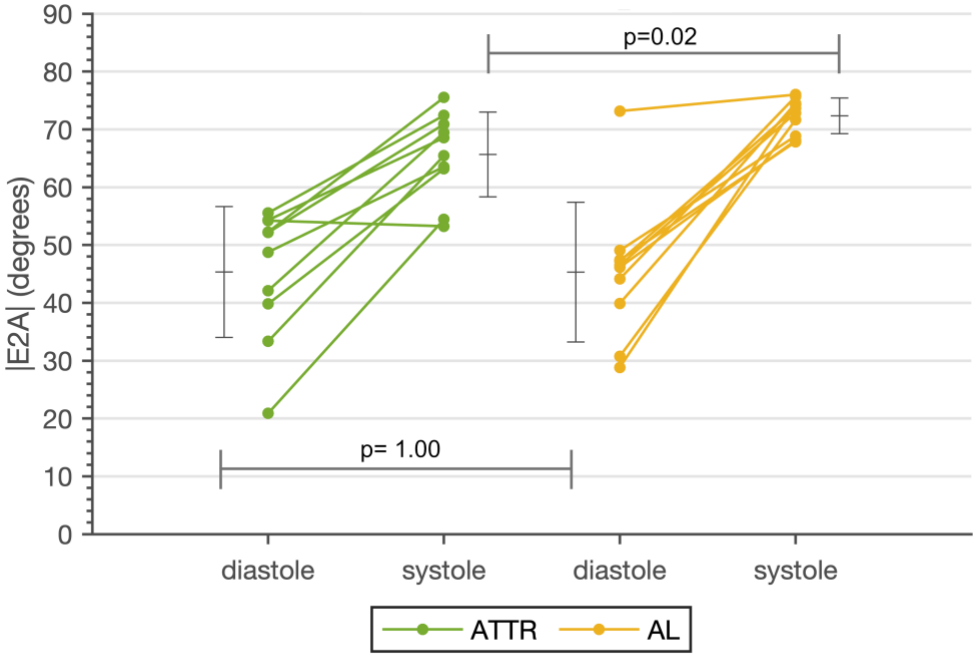
†ATTR= transthyretin amyloid, AL = light chain amyloid

‡ For T1 AL=9, ATTR=8. For ECV AL=8, ATTR=8

Supplementary Figure Legends

Supplementary Figure 1: E2A orientations in amyloid subtypes

Diastolic E2A is similar in light chain (AL) and transthyretin (ATTR) amyloidosis. Systolic E2A is higher in AL than ATTR (p=0.02).



Supplementary Figure 2: Biphasic diffusion markers were similar between amyloid subtypes

There were no significant differences in the mean diffusivity or fractional anisotropy between AL or ATTR. This was true for both cardiac phases.