

Supplementary Table 1. Radionuclide ‘bone’ scintigraphy in 1217 patients

Diagnosis	Bone scintigraphy findings				Total N=1217
	Perugini 0 N=593	Perugini 1 N=125	Perugini 2 N=317	Perugini 3 N=182	
No cardiac amyloid	486	11	1	1	499
Amyloidosis without cardiac amyloid infiltration	138	1	0	0	139
<i>AL, no cardiac amyloid</i>	56	0	0	0	56
<i>ATTR, no cardiac amyloid</i>	31	1	0	0	32
<i>AApoAI, no cardiac amyloid</i>	2	0	0	0	2
<i>ALys, no cardiac amyloid</i>	1	0	0	0	1
<i>AFib, no cardiac amyloid</i>	3	0	0	0	3
<i>AA, no cardiac amyloid</i>	3	0	0	0	3
<i>AGel, no cardiac amyloid</i>	1	0	0	0	1
<i>Unknown amyloidosis type, no cardiac amyloid</i>	2	0	0	0	2
<i>Localised AL, no cardiac amyloid</i>	39	0	0	0	39
No amyloidosis	348	10	1	1	360
<i>Anderson-Fabry</i>	2	0	0	0	2
<i>Heart failure with preserved ejection fraction (HFPEF)</i>	52	7	1	0	60
<i>Hypertrophic cardiomyopathy (HCM)</i>	42	0	0	0	42
<i>Hypertensive cardiomyopathy</i>	8	0	0	0	8
<i>TTR mutation carriers, no amyloid</i>	33	0	0	0	33
<i>Cardiac light chain deposition disease</i>	1	0	0	0	1
<i>Undefined cardiomyopathy</i>	210	3	0	1	214
Cardiac amyloid	107	114	316	181	718
Cardiac ATTR amyloid	2	49	302	177	530
Cardiac AL amyloidosis	104	59	14	4	181
Cardiac apoAI amyloidosis	0	5	0	0	5
Cardiac amyloidosis of unknown type	1	1	0	0	2

Supplementary Table 2. ^{99m}Tc-DPD scans in amyloidosis

Diagnosis	^{99m} Tc-DPD scan findings				N
	Perugini 0 N=445	Perugini 1 N=81	Perugini 2 N=273	Perugini 3 N=78	
No cardiac amyloid	363	4	0	1	368
Amyloidosis without cardiac amyloid infiltration	115	1	0	0	116
<i>AL, no cardiac amyloid</i>	44	0	0	0	44
<i>ATTR, no cardiac amyloid</i>	21	1	0	0	22
<i>AApoAI, no cardiac amyloid</i>	2	0	0	0	2
<i>ALys, no cardiac amyloid</i>	1	0	0	0	1
<i>AFib, no cardiac amyloid</i>	2	0	0	0	2
<i>AA, no cardiac amyloid</i>	3	0	0	0	3
<i>AGel, no cardiac amyloid</i>	1	0	0	0	1
<i>Unknown amyloidosis type, no cardiac amyloid</i>	2	0	0	0	2
<i>Localised AL, no cardiac amyloid</i>	39	0	0	0	39
No amyloidosis	248	3	0	1	252
<i>Anderson-Fabry</i>	2	0	0	0	2
<i>Heart failure with preserved ejection fraction (HFPEF)</i>	19	0	0	0	19
<i>Hypertrophic cardiomyopathy (HCM)</i>	42	0	0	0	42
<i>Hypertensive cardiomyopathy</i>	8	0	0	0	8
<i>TTR mutation carriers, no amyloid</i>	18	0	0	0	18
<i>Cardiac light chain deposition disease</i>	1	0	0	0	1
<i>Undefined cardiomyopathy</i>	158	3	0	1	162
Cardiac amyloid	82	77	273	77	509
Cardiac ATTR amyloid	1	20	262	75	358
Cardiac AL amyloidosis	80	51	11	2	144
Cardiac apoAI amyloidosis	0	5	0	0	5
Cardiac amyloidosis of unknown type	1	1	0	0	2

Supplementary Table 3. ^{99m}Tc-PYP scans in amyloidosis

Diagnosis	^{99m} Tc-PYP scan findings				All N=199
	Grade 0 N=58	Grade 1 N=33	Grade 2 N=16	Grade 3 N=92	
No cardiac amyloid	46	7	1	0	54
Amyloidosis without cardiac amyloid infiltration	12	0	0	0	12
<i>AL, no cardiac amyloid</i>	12	0	0	0	12
<i>ATTR, no cardiac amyloid</i>	0	0	0	0	0
<i>AApoAI, no cardiac amyloid</i>	0	0	0	0	0
<i>ALys, no cardiac amyloid</i>	0	0	0	0	0
<i>AFib, no cardiac amyloid</i>	0	0	0	0	0
<i>AA, no cardiac amyloid</i>	0	0	0	0	0
<i>AGel, no cardiac amyloid</i>	0	0	0	0	0
<i>Unknown amyloidosis type, no cardiac amyloid</i>	0	0	0	0	0
<i>Localised AL, no cardiac amyloid</i>	0	0	0	0	0
No amyloidosis	34	7	1	0	42
<i>Anderson-Fabry</i>	0	0	0	0	0
<i>Heart failure with preserved ejection fraction (HFPEF)</i>	33	7	1	0	41
<i>Hypertrophic cardiomyopathy (HCM)</i>	0	0	0	0	0
<i>Hypertensive cardiomyopathy</i>	0	0	0	0	0
<i>TTR mutation carriers, no amyloid</i>	1	0	0	0	1
<i>Cardiac light chain deposition disease</i>	0	0	0	0	0
<i>Undefined cardiomyopathy</i>	0	0	0	0	0
Cardiac amyloid	12	26	15	92	145
Cardiac ATTR amyloid	1	19	12	90	122
Cardiac AL amyloidosis	11	7	3	2	23
Cardiac apoAI amyloidosis	0	0	0	0	0
Cardiac amyloidosis of unknown type	0	0	0	0	0

Supplementary Table 4. ^{99m}Tc-HMDP scans in amyloidosis

Diagnosis	^{99m} Tc-HMDP scan findings				
	Grade 0 N=90	Grade 1 N=11	Grade 2 N=28	Grade 3 N=12	All N=141
No cardiac amyloid	77	0	0	0	77
Amyloidosis without cardiac amyloid infiltration	11	0	0	0	11
<i>AL, no cardiac amyloid</i>	0	0	0	0	0
<i>ATTR, no cardiac amyloid</i>	10	0	0	0	10
<i>AApoAI, no cardiac amyloid</i>	0	0	0	0	0
<i>ALys, no cardiac amyloid</i>	0	0	0	0	0
<i>AFib, no cardiac amyloid</i>	1	0	0	0	1
<i>AA, no cardiac amyloid</i>	0	0	0	0	0
<i>AGel, no cardiac amyloid</i>	0	0	0	0	0
<i>Unknown amyloidosis type, no cardiac amyloid</i>	0	0	0	0	0
<i>Localised AL, no cardiac amyloid</i>	0	0	0	0	0
No amyloidosis	66	0	0	0	66
<i>Anderson-Fabry</i>	0	0	0	0	0
<i>Heart failure with preserved ejection fraction (HFPEF)</i>	0	0	0	0	0
<i>Hypertrophic cardiomyopathy (HCM)</i>	0	0	0	0	0
<i>Hypertensive cardiomyopathy</i>	0	0	0	0	0
<i>TTR mutation carriers, no amyloid</i>	14	0	0	0	14
<i>Cardiac light chain deposition disease</i>	0	0	0	0	0
<i>Undefined cardiomyopathy</i>	52	0	0	0	52
Cardiac amyloid	13	11	28	12	64
Cardiac ATTR amyloid	0	10	28	12	50
Cardiac AL amyloidosis	13	1	0	0	14
Cardiac apoAI amyloidosis	0	0	0	0	0
Cardiac amyloidosis of unknown type	0	0	0	0	0

Supplementary Table 5. Sensitivity and specificity of ^{99m}Tc-DPD scintigraphy in cardiac amyloid

Positive ^{99m} Tc-DPD scan vs cardiac amyloid (n=244 (877))			
	Positive scan (Perugini 1, 2, or 3)	Negative scan (Perugini 0)	
Cardiac amyloid	186 (427)	23 (82)	89% (84%) sensitive
No cardiac amyloid	4 (5)	31 (363)	89% (99%) specific
Positive ^{99m} Tc-DPD scan vs cardiac ATTR amyloid (n=244 (877))			
	Positive scan (Perugini 1, 2, or 3)	Negative scan (Perugini 0)	
Cardiac ATTR amyloid	161 (357)	1 (1)	>99% (>99%) sensitive
No cardiac ATTR amyloid	29 (75)	53 (444)	64% (85%) specific
Perugini grade 2 or 3 ^{99m} Tc-DPD scan vs cardiac ATTR amyloid (n=244 (877))			
	Perugini grade 2/3 scan	Perugini grade 0/1 scan	
Cardiac ATTR amyloid	153 (337)	9 (21)	94% (94%) sensitive
No cardiac ATTR amyloid	9 (14)	72 (505)	89% (97%) specific
Perugini grade 2 or 3 ^{99m} Tc-DPD scan + absence of clone vs ATTR amyloid (n=244 (877))			
	Perugini grade 2/3 scan + no clone	Perugini grade 0/1 scan OR clone	
Cardiac ATTR amyloid	113 (272)	49 (86)	70% (76%) sensitive
No cardiac ATTR amyloid	0 (0)	81 (519)	100% (100%) specific

Results among 244 patients with EMB are shown and results for all 877 patients who underwent ^{99m}Tc-DPD scintigraphy are shown in parentheses.

Supplementary Table 6. Sensitivity and specificity of ^{99m}Tc-PYP scintigraphy in cardiac amyloid

Positive ^{99m} Tc-PYP scan vs cardiac amyloid (n=109 (199))			
	Positive scan (Grade 1, 2, or 3)	Negative scan (Grade 0)	
Cardiac amyloid	89 (133)	11 (12)	89% (92%) sensitive
No cardiac amyloid	2 (8)	7 (46)	78% (83%) specific
Positive ^{99m} Tc-PYP scan vs cardiac ATTR amyloid (n=109 (199))			
	Positive scan (Grade 1, 2, or 3)	Negative scan (Grade 0)	
Cardiac ATTR amyloid	84 (121)	1 (1)	99% (99%) sensitive
No cardiac ATTR amyloid	7 (20)	17 (57)	71% (74%) specific
Grade 2 or 3 ^{99m} Tc-PYP scan vs cardiac ATTR amyloid (n=109 (199))			
	Grade 2/3 scan	Grade 0/1 scan	
Cardiac ATTR amyloid	74 (102)	11 (20)	87% (84%) sensitive
No cardiac ATTR amyloid	5 (6)	19 (71)	79% (92%) specific
Grade 2 or 3 ^{99m} Tc-PYP scan + absence of clone vs ATTR amyloid (n=109 (199))			
	Grade 2/3 scan + no clone	Grade 0/1 scan OR clone	
Cardiac ATTR amyloid	61 (83)	24 (39)	72% (68%) sensitive
No cardiac ATTR amyloid	0 (0)	24 (77)	100% (100%) specific

Results among 109 patients with EMB are shown and results for all 199 patients who underwent ^{99m}Tc-PYP scintigraphy are shown in parentheses.

Supplementary Table 7. Sensitivity and Specificity of ^{99m}Tc-HMDP scintigraphy vs EMB histology

Positive ^{99m} Tc-HMDP scan vs cardiac amyloid (n=21 (141))			
	Positive scan (Grade 1, 2, or 3)	Negative scan (Grade 0)	
Cardiac amyloid	14 (51)	4 (13)	78% (80%) sensitive
No cardiac amyloid	0 (0)	3 (77)	100% (100%) specific
Positive ^{99m} Tc-HMDP scan vs cardiac ATTR amyloid (n=21 (141))			
	Positive scan (Grade 1, 2, or 3)	Negative scan (Grade 0)	
Cardiac ATTR amyloid	14 (50)	0 (0)	100% (100%) sensitive
No cardiac ATTR amyloid	0 (1)	7 (90)	100% (99%) specific
Perugini grade 2 or 3 ^{99m} Tc-HMDP scan vs cardiac ATTR amyloid (n=21 (141))			
	Grade 2/3 scan	Grade 0/1 scan	
Cardiac ATTR amyloid	11 (40)	3 (10)	79% (80%) sensitive
No cardiac ATTR amyloid	0 (0)	7 (90)	100% (100%) specific
Perugini grade 2 or 3 ^{99m} Tc-HMDP scan + absence of clone vs ATTR amyloid (n=21 (141))			
	Grade 2/3 scan + no clone	Grade 0/1 scan OR clone	
Cardiac ATTR amyloid	8 (37)	6 (13)	57% (74%) sensitive
No cardiac ATTR amyloid	0 (0)	7 (90)	100% (100%) specific

Results among 21 patients with EMB are shown and results for all 141 patients who underwent ^{99m}Tc-HMDP scintigraphy are shown in parentheses.

Supplementary Table 8. Demographics and results of radionuclide ‘bone’ scintigraphy in patients with ATTR amyloid according to amyloidogenic TTR variant

	N	Age yr (median)	Gender (% male)	Ethnicity	Radionuclide ‘bone’ scintigraphy findings			
					Grade 0	Grade 1	Grade 2	Grade 3
Wild-type	304	76	92%	All	7	25	178	94
V122I	84	74	75%	African [‡]		2	43	39
T60A	62	68	71%	Caucasian	1	1	32	28
V30M	48	53	80%	Caucasian	23	6	18	1
S77Y	11	66	73%	Caucasian	1	2	8	
V71A	9	37	67%	Middle Eastern		2	5	2
G47V	4	51	75%	Indian		1	3	
E89K	4	58	50%	Caucasian		1	1	2
I68L	2	65	0%	Caucasian			2	
S77F	3	62	100%	Caucasian		2	1	
E54G	2	42	100%	Caucasian		1	1	
I107F	2	70	50%	Caucasian		2		
L12P	1	43	100%	African				1
A19D	1	69	0%	Caucasian			1	
S23N	2	63	100%	Caucasian			1	1
F33V	1	53	100%	Caucasian				1
R34G	1	52	100%	Caucasian				1
D38Y	1	71	100%	Caucasian			1	
D38V	1	42	0%	African			1	1
E42D	1	50	100%	African				1
F44L	1	74	100%	African				1
G47E	1	61	0%	Caucasian			1	
G47R	1	53	100%	Caucasian			1	
T49I	1	65	100%	Asian			1	
E54Q	1	49	0%	Caucasian				1
E54L	1	63	0%	Caucasian				1
L58H	1	67	100%	Caucasian		1		
T59K	2	60	100%	Asian		1	1	
F64L	2	74	100%	Caucasian		2		
D70K	1	67	100%	Caucasian			1	
I84S	1	45	0%	Caucasian			1	
E89G	1	63	100%	Caucasian			1	
H90D	1	34	100%	Caucasian				1
I107V	1	77	100%	Caucasian		1		
Y114C	1	62	0%	Asian	1			
A120S	1	62	100%	African				1
N	562				33	50	302	177

[‡] - V122I variant has been described in Caucasian individuals