

**SUPPLEMENTAL FILE 2.** Patient characteristics of TAD-patients and screening-participants

	<b>Total (n=261)</b>	<b>TAD patients (n= 147)</b>	<b>Screening-participants (n= 114)</b>	<b>p-value</b>
Age - y	52.9±15.8	59.2±12.6	44.9±15.9	<0.001**
Sex - % female	125 (47.9)	54 (36.7)	71 (62.3)	<0.001**
Length - cm	177.2±14.7	178.4±14.2	175.6±15.3	0.137
Weight - kg	83.9±19.4	87.9±19.1	78.7±18.6	<0.001**
BSA - m <sup>2</sup>	2.0±0.2	2.0±0.2	1.9±0.2	<0.001**
Hypertension	117 (44.8)	84 (57.1)	33 (28.9)	<0.001**
Hyperlipidemia	66 (25.3)	51 (34.7)	15 (13.2)	<0.001**
Smoking	25 (9.6)	13 (8.8)	12 (10.5)	0.647
Diabetes	9 (3.4)	7 (4.8)	2 (1.8)	0.187
Renal dysfunction	5 (1.9)	4 (2.7)	1 (0.9)	0.281
History of depression	16 (6.1)	8 (5.4)	8 (7.0)	0.599
History of anxiety disorder	4 (1.5)	2 (1.4)	2 (1.8)	0.797
Beta blocker use	60 (23.0)	50 (34.0)	10 (8.8)	<0.001**
ARB use	34 (13.0)	30 (20.4)	4 (3.5)	<0.001**
ACEi use	42 (16.1)	32 (21.8)	10 (8.8)	0.005**
Diagnosis				<0.001**
Marfan Syndrome	10 (3.8)	6 (4.1)	4 (3.5)	
Loeys-Dietz Syndrome	10 (3.8)	4 (2.7)	6 (5.3)	
Ehlers-Danlos Syndrome	2 (0.8)	0 (0.0)	2 (1.8)	
Other	12 (4.6)	2 (1.4)	10 (8.8)	
Confirmed genetic mutation	61 (23.4)	31 (21.1)	30 (26.3)	0.001
Positive family history aortic disease	132 (50.6)	60 (40.8)	72 (63.2)	0.001
Abdominal aortic aneurysm	9 (3.4)	8 (5.9)	1 (0.8)	0.025*
Maximal diameter aortic root <sup>1</sup>	37.6±5.7	40.4±5.5	34.3±4.0	<0.001**
Indexed diameter aortic root <sup>1</sup> - mm/BSA	19.0±2.9	19.7±3.0	18.0±2.5	<0.001**
Maximal diameter ascending aorta <sup>1</sup>	37.0±6.8	40.8±5.5	32.2±5.1	<0.001**
Indexed diameter ascending aorta <sup>1</sup> - mm/BSA	18.7±3.9	20.1±3.7	16.8±3.2	<0.001**
Maximal diameter descending aorta <sup>1</sup>	27.1±6.3	30.0±5.9	23.9±5.2	<0.001**
Indexed diameter descending aorta <sup>1</sup> - mm/BSA	13.7±3.3	14.7±3.3	12.5±2.9	<0.001**
Previous aortic surgery	33 (12.6)	32 (21.8)	1 (0.9)	<0.001**
Previous dissection	23 (8.8)	20 (13.6)	3 (2.6)	0.002**
Current partner	126 (75.9)	50 (66.7)	76 (83.5)	0.012
Current employment <sup>2</sup>	103 (39.5)	61 (51.7)	42 (48.8)	0.687
Paid job	96 (36.8)	57 (48.3)	39 (45.3)	
Volunteer work	7 (2.7)	4 (3.4)	3 (3.5)	
Retired	57 (21.8)	43 (36.4)	14 (16.3)	
Student	16 (6.1)	1 (0.8)	15 (17.4)	
Unable to work / disabled	16 (6.1)	10 (8.5)	6 (7.0)	
Unemployed	12 (4.6)	3 (2.5)	9 (10.5)	
Exercise				
Sports participation <sup>3</sup>	105 (40.2)	50 (34.0)	55 (48.2)	0.023*
Walking or cycling	104 (39.8)	63 (42.9)	41 (36.0)	
None	36 (13.8)	24 (16.3)	12 (10.5)	

Data are expressed as mean ± SD or as absolute and percentage. BSA=Body Surface Area; ARB= Angiotensin II receptor blocker; ACEi= Angiotensin Converting Enzyme inhibitor; LVEF= left ventricular ejection fraction; MFS= Marfan Syndrome; LDS 3= Loeys-

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Dietz Syndrome type 3 (SMAD3 mutation).

<sup>1</sup> Only patients without previous aortic surgery.

<sup>2</sup> Current employment= Paid job or volunteer work.

<sup>3</sup> Defined as: Participating in any sport other than daily walking or cycling at any level at least once a week.

\* Significant at the 0.05 level

\*\* Significant at the 0.01 level