

Supplementary Online Content

Persu A, Lopez-Sublet M, Al-Hussaini A, et al. Prevalence and disease spectrum of extracoronary arterial abnormalities in spontaneous coronary artery dissection. *JAMA Cardiol*. Published online November 24, 2021. doi:10.1001/jamacardio.2021.4690

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eFigure. Flow Chart of Patients From the UK SCAD Registry Included in the Current Analysis

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Comparison of General and Coronary Characteristics Between SCAD Patients With and Without FMD

	Patients without FMD N = 118	Patients with FMD N =55	P-value
Women (%)	113/118 (95.8)	54/55 (98.2)	0.42
Age at diagnosis (years)	44.6 ± 7.7	44.5 ± 8.3	0.96
Body mass index (kg/m ²)	25.6 ± 5.2	28.5 ± 17.0	0.10
Smoking habit			
Never/former smokers	89/118 (75.4)	35/55 (63.6)	0.27
Current smokers	27/118 (22.9)	19/55 (34.5)	
Treated hypertension	20/118 (16.9)	11/55 (20.0)	0.63
Type 2 diabetes	0/118 (0)	0/55 (0)	-
Treated dyslipidaemia	11/118 (9.3)	3/55 (5.5)	0.39
Type of Acute Coronary Syndromes at presentation of SCAD:			
NSTEMI	76/118 (64.4)	29/55 (52.7)	0.31
STEMI	34/118 (28.8)	20/55 (36.4)	
Cardiac arrest	8/118 (6.8)	6/55 (10.9)	
Percutaneous Coronary Intervention	39/118 (33.0)	20/51 (39.2)	0.44
Bailout Coronary Artery Bypass Graft	2/118 (1.7)	3/55 (5.5)	0.16
Angiographic features:			
1. Coronary artery involved (%):			
LM	8/118 (6.8)	4/55 (7.3)	0.91
LAD	89/118 (75.4)	33/55 (60.0)	0.04
LCX	34/118 (28.8)	21/55 (38.2)	0.22
RCA	15/118 (12.7)	14/55 (25.5)	0.04
2. Portion of the artery involved (%):			
Proximal involvement	27/118 (24.2)	9/55 (14.3)	0.33
Mid involvement	53/118 (44.9)	25/55 (45.5)	0.95
Distal involvement	64/118 (54.2)	24/55 (43.6)	0.32
Branch involvement	36/118 (30.5)	18/55 (32.7)	0.77
3. Multivessel (%)	18/118 (15.3)	9/55 (16.4)	0.85
4. Multisegment (%)	44/118 (37.3)	20/55 (36.4)	0.91
5. Saw Class (%)			
1	17/118 (14.4)	6/55 (10.9)	0.96
2a	53/118 (44.9)	26/55 (47.3)	
2b	22/118 (18.6)	10/55 (18.2)	
3	9/118 (7.6)	6/55 (10.9)	
4	17/118 (14.4)	6/55 (10.9)	
Recurrence (%)	9/118 (7.6)	7/55 (12.7)	0.45
Beighton score			
<4	82/118 (69.5)	38/55 (69.1)	0.96
≥4	36/118 (30.5)	17/55 (30.9)	
Migraines	59/118 (50.0)	24/55 (43.6)	0.56
<i>PHACTRI</i>			
AA	53/114 (46.5)	20/49 (40.8)	0.50
AG	55/114 48.2)	23/49 (46.9)	0.88

GG	6/114 (5.3)	6/49 (12.2)	0.12
Aneurysms	8/118 (6.8)	5/55 (9.1)	0.59
Arterial dissections	2/118 (1.7)	1/55 (1.8)	0.95
Tortuosity*	79/118 (66.9)	42/55 (76.4)	0.21

*defined as one or more curves $\geq 45^\circ$

SCAD: Spontaneous Coronary Artery Dissection; FMD: fibromuscular dysplasia.

eTable 2. Prevalence and Severity of Arterial Tortuosity in Renal and Iliac Vessels of Patients With Spontaneous Coronary Artery Dissection Versus Controls

Tortuosity evaluation	Patients with SCAD N= 173	Controls N=41	P-value
<i>Renal arteries</i>			
Right Renal artery			
Straight (%)		36/41 (87.8)	0.49
Tortuosity Index	158/173 (91.3)	21.0 (1/41)	0.69
Number of curves $\geq 45^\circ$	14.0 \pm 5.7	1.0 (1/41)	0.78
Mean angle	6.9 \pm 21.4	62.0 (1/41)	0.45
	54.9 \pm 8.7		
Left Renal artery			
Straight (%)	161/173 (93.1)	40/41 (97.6)	0.28
Tortuosity Index	29.1 \pm 9.3	25.0 (1/41)	0.71
Number of curves $\geq 45^\circ$	1 (1/173)	-	-
Mean angle	70.1 \pm 13.6	-	-
<i>Iliac arteries</i>			
Right Common Iliac artery			
Straight (%)	163/173 (94.2)	41/41 (100)	0.12-
Tortuosity Index	17.0 \pm 7.4	-	-
Number of curves $\geq 45^\circ$	1 (1/173)	-	-
Mean angle	56.8 \pm 12.6	-	-
Right External Iliac artery			
Straight (%)	170/173 (98.3)	41/41 (100)	0.49
Tortuosity Index	16.3 \pm 17.2	-	-
Number of curves $\geq 45^\circ$	1.5 \pm 0.7	-	-
Mean angle	68.5 \pm 29.0	-	-
Left Common Iliac artery			
Straight (%)	155/173 (89.6)	38/41 (92.7)	0.55
Tortuosity Index	16.1 \pm 9.5	19.7 \pm 8.6	0.55
Number of curves $\geq 45^\circ$	1.1 \pm 0.3	1 \pm 0	0.71
Mean angle	61.2 \pm 14.7	68.5 \pm 24.8	0.56
Left External Iliac artery			
One or more curves $\geq 45^\circ$ (%)	171/173 (98.8)	41/41 (100)	0.40
Tortuosity Index	26.8 \pm 34.0	-	-
Number of curves $\geq 45^\circ$	2 (1/173)	-	-
Mean angle	67.5 (1/173)	-	-

eTable 3. Prevalence and Characteristics of Fibromuscular Dysplasia and Other Extracoronary Abnormalities Detected by MRA and CTA in Patients Evaluated by Both Imaging Modalities

FMD characteristics	MRA N=43	CTA N=43	<i>P</i> -value
Prevalence of multifocal FMD (%)			
At least one arterial bed	15/43 (34.9)	15/43 (34.9)	1.00
At least two arterial beds	7/43 (16.3)	7/43 (16.3)	1.00
Three or more arterial beds	1/43 (2.3)	1/43 (2.3)	1.00
Prevalence of FMD lesions in each vascular bed	6/43 (14.0)	8/43 (18.6)	0.56
Cervical	10/43 (23.3)	7/43 (16.3)	0.42
Renal	0/43 (0)	0/43 (0)	-
Aorta	2/43 (4.7)	3/43 (7.0)	0.65
Visceral	5/43 (11.6)	5/43 (11.6)	1.00
Iliac	0/43 (0)	1/43 (2.3)	0.31
Intracranial			
Aneurysm (%)	7/43 (16.3)	7/43 (16.3)	1.00
Intracranial aneurysm (%)	2/43 (4.7)	2/43 (4.7)	1.00
Arterial dissection	1/43 (2.3)	1/43 (2.3)	1.00

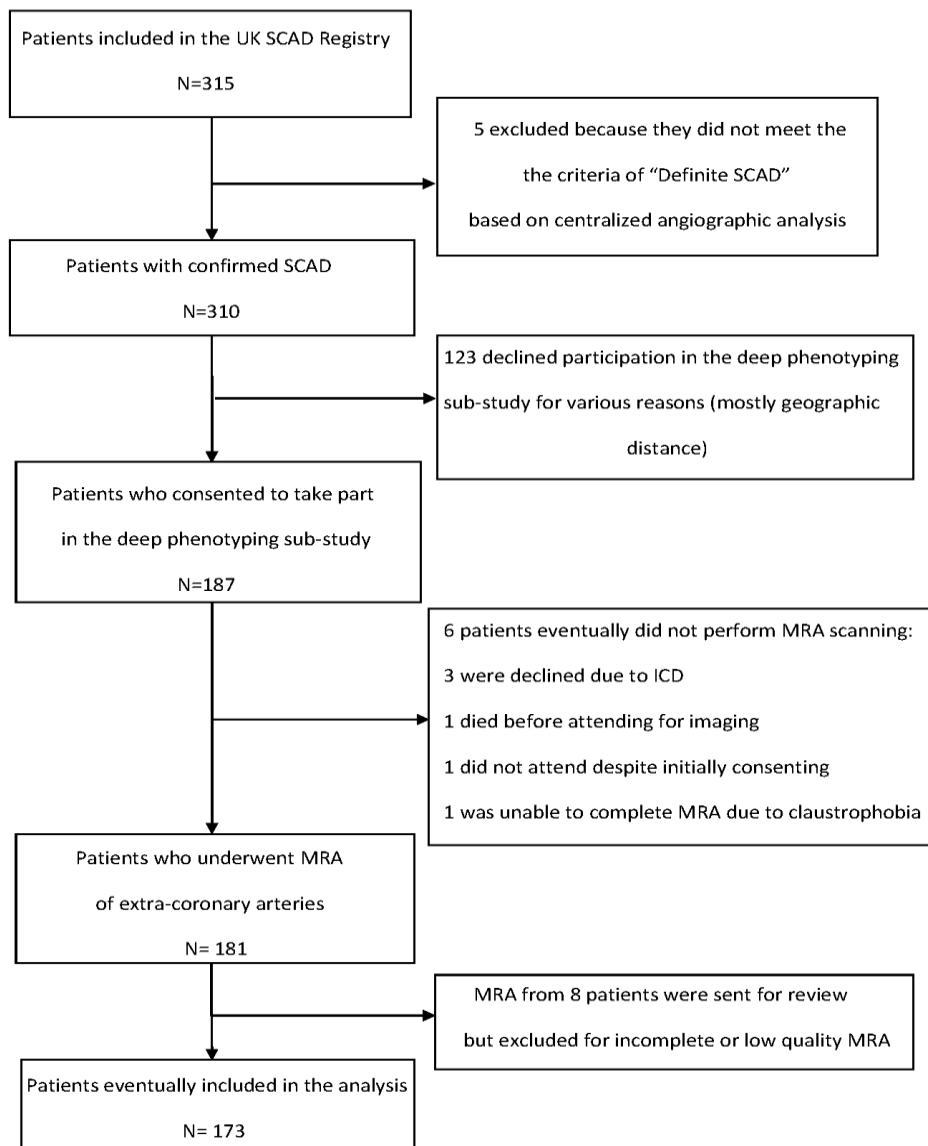


Figure S1: Flow-chart of patients from the UK SCAD Registry included in the current analysis.

eFigure. Flow Chart of Patients From the UK SCAD Registry Included in the Current Analysis