

Table SI. Clinical characteristics of the patients included in the study.

Characteristic	CVD (n=62)	HC (n=52)
Median age (IQR), years	33 (22-40)	34 (27-41)
Median gestational age (IQR), weeks	40.5 (39-41.5)	41 (39-42)
C-section delivery, n (%)	12 (19.4)	9 (17.3)
Vaginal delivery, n (%)	50 (80.6)	43 (82.7)
Varicose vein, n (%) ^a		
C1	37 (59.7)	0 (0)
C2	21 (33.8)	0 (0)
C3	4 (6.5)	0 (0)
Previous pregnancies, n (%)	33 (53.2)	19 (36.5)
Previous abortions, n (%)	14 (22.6)	9 (17.3)
Regular menstrual cycles, n (%)	50 (80.6)	42 (80.7)
Sedentary profession, n (%)	41 (66.1)	40 (76.9)

^ameasured using Clinical-Etiology-Anatomy-Pathophysiology classification. IQR, interquartile range; CVD, chronic venous disease; HC, healthy controls.

Table SII. Primer sequences and annealing temperature used for reverse transcription-quantitative PCR.

Gene name	Forward sequence (5'→3')	Reverse sequence (5'→3')	Annealing temperature
TBP	TGCACAGGAGCCAAGAGTGAA	CACATCACAGCTCCCCACCA	60°C
EGFL7	TCGTGCAGCGTGTGTACCAG	GCGGTAGGCGGTCCTATAGATG	59°C
TE	GTGTATACCCAGGTGGCGTG	CGAACTTTGCTGCTGCTTTAG	64°C
FBLN-4	GTCTTGGACATGCCAGGATTA	TGGAGATCGTGGGATAGTTTG	60°C
FBN-1	GGTGAATGTACAAACACAGTCAGCA	ATAGGAACAGAGCACAGCTTGTTGA	60°C
LOX	GCAGATGTCAGAGATTATGATCA	ATCGCCTGTGGTAGCCATAGT	60°C
LOXL-1	GCACCTCTCATACCCAGGGC	TGGCAGTCGATGTCCGCAT	60°C

TBP, TATA-box binding protein; EGFL7, EGF-like domain-containing protein 7; TE, tropoelastin; FBLN-4, fibulin 4; FBN-1, fibrillin 1; LOX, lysyl oxidase; LOXL-1, lysyl oxidase-like 1.

Table SIII. Primary and secondary antibodies used for immunohistochemistry analysis.

A. Primary antibodies					
Antibody	Species	Dilution	Provider	Cat. no.	Protocol specifications
EGFL7	Rabbit (monoclonal)	1:500	Abcam	ab256451	EDTA (pH 9) before incubation with blocking solution
TE	Rabbit (polyclonal)	1:750	Dr Mecham, Washington University, USA	NA	NA
FBLN-4	Rabbit (monoclonal)	1:250	Abcam	ab125073	Citrate buffer in heat (pH 6.0)
FBN-1	Rabbit (polyclonal)	1:100	Abcam	ab53076	Triton X100 0.1% in PBS, 10 min
LOX	Rabbit (polyclonal)	1:500	Dr Sommer, CNRS-UMR (Paris, France)	NA	Glycine HCl, 30 min at RT.
LOXL-1	Rabbit (polyclonal)	1:250	Dr Sommer, CNRS-UMR (Paris, France)	NA	0.2% Hyaluronidase, 30 min at 42°C Glycine HCl, 30 min at RT. 0.2% Hyaluronidase, 30 min at 42°C
B. Secondary antibodies					
Antibody	Species	Dilution	Provider	Cat. no.	Protocol specifications
IgG	Mouse polyclonal	1:1,000	Sigma-Aldrich; Merck KGaA	B5283	NA

TBP, TATA-box binding protein; EGFL7, EGF-like domain-containing protein 7; TE, tropoelastin; FBLN-4, fibulin 4; FBN-1, fibrillin 1; LOX, lysyl oxidase; LOXL-1, lysyl oxidase-like 1; RT, room temperature; NA, not applicable; CNRS-UMR (Centre national de la recherche scientifique, Paris, France).