Supplemental material

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RMD Open

Table S1. Pregnancy history of participants

Parameters		Total (n=378)	Control (n=249)	Case (n=129)	p*
Age at first pregnancy of more than 28 WG before SSc diagnosis (years)	Mean ± SD	25.7 +/- 4. 9	25.9 +/- 4.9	25.3 +/- 4.9	0.30
	Median (q1-q3)	25.0 (22.0-28.0)	25.0 (23.0-28.0)	24.0 (22.0-28.0)	
	min-max	16.0-47.0	16.0-47.0	16.0-41.0	
Time between first pregnancy of more than 28 WG and SSc diagnosis (years)	Mean ± SD	26.6 +/- 14.0	28.0 +/- 14.0	24.2 +/- 13.7	0.02
	Median (q1-q3)	26.0 (16.0-36.0)	27.0 (18.0-38.0)	23.0 (14.0-33.0)	
	min-max	0.0-66.0	0.0-66.0	1.0-54.0	
Time between first pregnancy of more than 28 WG and inclusion in the study (years)	Mean ± SD	36.0 +/- 14.3	35.9 +/- 14.6	36.1 +/- 13.8	0.93
	Median (q1-q3)	37.5 (25.0-47.0)	37.0 (26.0-46.0)	39.0 (25.0-47.0)	
	min-max	1.0-68.0	1.0-68.0	2.0-62.0	
Number of live births	Median (q1-q3) Min-max	2 (2-3) 1-5	2 (2-3) 1-5	2 (2-3) 1-5	0.07
History of pre-eclampsia	n (%)	17 (4.5%)	12 (4.8%)	5 (3.9%)	0.67
Term at pre-eclampsia diagnosis (months)	Mean ± SD	6.5 ± 1.4	6.1 ± 1.4	7.5 ± 1.1	0.06
	Median (q1-q3)	6.0 (6.0-8.0)	6.0 (6.0-7.0)	7.5 (7.0-8.0)	
	min-max	3.0-9.0	3.0-8.0	6.0-9.0	
Term at delivery in pregnancies complicated with pre-eclampsia (months)	Mean ± SD Median (q1-q3) min-max	7.9 ± 1.0 8.0 (8.0-9.0) 6.0-9.0	7.9 ± 1.0 8.0 (8.0-9.0) 6.0-9.0	7.8 ± 1.2 8.0 (7.0-9.0) 6.0-9.0	0.97
Weight of newborn in pregnancies complicated with pre-eclampsia (grams)	Mean ± SD Median (q1-q3) min-max	2461 +/- 1008 2610 (1380-3200) 765-4460	2760 +/- 949 3000 (2600-3320) 765-4460	1861 +/- 884 1800 (1200-1960) 1000-3800	0.04
History of vasculo-placental disorder	n (%)	33 (9.4%)	21 (9.1%)	12 (10.0%)	0.77
History of placental abruption	n (%)	6 (1.7%)	4 (1.7%)	2 (1.7%)	1.0
History of IUGR	n (%)	13 (3.6%)	9 (3.8%)	4 (3.2%)	1.0

SSc = systemic sclerosis; WG = weeks of gestation; IUGR = intrauterine growth restriction

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Table S2. Univariable analysis for parameters associated with a vascular phenotype of SSc

Parameters	Odds Ratio	Confidence interval	p-Value	Number of observations
Smoking status	1.13	0.73 to 1.76	0.59	376
Chronic arterial hypertension	1.49	0.93 to 2.38	0.10	378
History of pre-eclampsia	0.80	0.27 to 2.31	0.68	378
History of vasculo-placental disorder	1.12	0.53 to 2.35	0.77	352
Age at SSc diagnosis (years)*	0.97	0.96 to 0.99	0.003	371
Disease duration (years)*	1.04	1.02 to 1.07	0.0009	371
Disease duration ≥ 5 years	2.50	1.53 to 4.08	0.0003	371
Type of SSc (diffuse versus limited/sine sclerodema)	1.85	1.10 to 3.12	0.02	378
Rodnan skin score (points)*	1.11	1.06 to 1.15	<0.0001	351
Anti-topoisomerase antibodies	2.25	1.31 to 3.87	0.003	338
Anti-RNA polymerase III antibodies	0.87	0.29 to 2.56	0.80	336
Anti-centromere antibodies	0.57	0.36 to 0.90	0.01	338
Persistent antiphospholipid antibodies	2.03	0.69 to 5.92	0.20	353
Interstitial lung disease	1.97	1.25 to 3.11	0.003	378
Lower digestive tract involvement	1.64	0.99 ; 2.72	0.05	378

SSc = systemic sclerosis