

Table S1: General data of patients.

Body weight (Kg)	68 ± 11
BMI (kg/mt ²)	26.8 ± 4,7
Systolic Blood pressure (mmHg)	129 ± 20
Diastolic blood pressure (mmHg)	77 ± 7
Ankle/brachial index	Right 0.90 ± 0.19
	Left 0.94 ± 0.15
< 0.9	7 (39%)
Skin folds	2 (2-3)
Neck (right)	2 (2-3)
Neck (left)	2,5 (2-3)
Axillae (right)	2,5 (2-3)
Axillae (left)	2 (1-2)
Elbow (right)	2 (1-2)
Elbow (left)	2 (0,75-2)
Popliteal (right)	2 (0,75-2)
Popliteal (left)	
PHENODEX	
Skin	3 (2-3)
Eye	2 (2-3)
Gastrointestinal	0 (0-0)
Vascular	0 (0-0,15)
Cardiac	0 (0-0)
Total PHENODEX	5,5 (4-6)
Hemoglobin (g/dL)	13.1 ± 1.1
VCM (fl)	90 ± 5
HCM (pg)	29 ± 2
RDW	13 ± 1
Platelets (mm ³)	249 ± 49
Neutrophils (mm ³)	4.30 ± 1.30
Glucose (mg/dL)	91 ± 10
Creatinine (mg/dL)	0.69 ± 0.13
ALT (UI/L)	31 ± 20
Cholesterol (mg/dL)	182 ± 51
HDL cholesterol (mg/dL)	67 ± 13
LDL cholesterol (mg/dL)	96 ± 44
Triglycerides (mg/dL)	97 ± 60
TSH (μUI/mL)	1.81 ± 1.1
Calcium (mg/dL)	8.99 ± 0.43
Phosphate (mg/dL)	3.4 ± 0.43

Data are shown as number (%), mean ± SD or median (IQR).

Table S2 18F-NaF TBRmax and TBRmean in vessels and skin according to the severity of skin, eye and vascular stage according to the Phenodex score and the presence of nephrolithiasis.

Phenodex	Averaged Skin		Averaged Vascular		Averaged Calcium Score
	TBRmax	TBRmean	TBRmax	TBRmean	
Skin	0.97 (0.97-	0.71 (0.71-	1.63 (1.63-	1.58 (1.58-	
	0.97)	0.71)	1.63)	1.58)	4.92 (4.92-4.92)
	4.79 (2.47-	2.94 (1.65-	2.09 (1.98-	1.73 (1.56-	78 (0.51-255)
	8.57)	5.64)	2.82)	2.34)	81 (0.84-339)
	4.22 (3.22-	2.87 (2.22-	2.62 (2.28-	2.15 (1.86-	
	8.00)	5.67)	2.80)	2.34)	
Eye	0.97 (0.97-	0.71 (0.71-	1.63 (1.63-	1.58 (1.58-	
	0.97)	0.71)	1.63)	1.58)	4.92 (4.92-4.92)
	4.79 (3.49-	2.94 (2.41-	2.50 (1.98-	2.04 (1.56-	40 (0.38-267)
	8.58)	5.62)	2.77)	2.31)	255 (43-494)
	3.63 (2.22-	2.38 (1.67-	2.63 (2.49-	2.25 (1.93-	
	5.55)	4.15)	3.03)	2.59)	
Vascular ¹	3.85 (2.20-	2.53 (1.67-	2.44 (1.98-	1.93 (1.68-	
	8.27)	5.31)	2.78)	2.33)	1.82 (0.51-78)
	8.57 (3.52-	6.08 (2.64-	2.27 (1.78-	1.90 (1.49-	302 (302-302)
	13.6)	9.53)	2.77)	2.32)	447 (279-1241)
	5.26 (2.95-	3.49 (1.94-	2.58 (2.21-	2.21 (1.71-	
	6.71)	4.92)	2.84)	2.39)	
Nephrolithiasis	4.07 (2.40-	2.64 (1.63-	2.56 (1.88-	2.16 (1.57-	
	6.53)	4.21)	2.87)	2.39)	118 (1.60-290)
	7.04 (2.87-	5.22 (2.05-	2.38 (2.01-	1.91 (1.73-	
	11.3)	7.66)	2.62)	2.11)	2.46 (0.12-407)

¹ $p < 0.01$ for Calcium Score column. Data shown as median (IQR).

Table S3. Skin TBRmax and TBRmean in the areas according to the clinical severity (range 0-3).

	Right		Left	
	TBRmax	TBRmean	TBRmax	TBRmean
Neck				
1	1.05 (1.05-1.05)	0.79 (0.79-0.79)	1.15 (1.15-1.15)	0.97 (0.97-0.97)
2	5.77 (3.18-12.4)	4.14 (2.29-9.31)	5.30 (3.27-12.09)	3.53 (2.70-8.54)
3	7.57 (4.27-17.87)	5.57 (3.00-9.48)	8.18 (3.40-16.40)	6.69 (2.22-9.08)
Axillae				
1	4.02 (3.21-4.82)	3.34 (3.28-3.40)	4.67 (3.52-5.82)	3.27 (2.52-4.01)
2	9.92 (5.21-17.20)	5.71 (2.96-9.48)	10.14 (3.48-17.7)	6.25 (2.15-10.81)
3	6.09 (3.31-7.86)	4.62 (2.27-5.58)	5.26 (2.55-7.48)	3.52 (1.82-5.41)
Elbow				
0	0.74 (0.74-0.74)	0.55 (0.55-0.55)	0.60 (0.60-0.60)	0.51 (0.51-0.51)
1	1.12 (0.83-1.47)	0.92 (0.65-1.01)	0.96 (0.40-1.06)	0.71 (0.33-0.86)
2	3.74 (2.18-5.56)	2.73 (1.60-3.87)	3.81 (1.82-6.02)	2.46 (1.93-3.21)
Poplit				
0	2.49 (1.21-7.68)	1.74 (0.87-5.63)	2.32 (1.48-8.81)	1.56 (1.13-6.14)
1	2.70 (1.23-4.89)	2.12 (0.69-3.46)	2.54 (1.26-5.74)	2.04 (0.73-3.51)
2	4.66 (2.90-5.43)	2.78 (1.70-3.91)	3.36 (2.81-4.60)	2.46 (1.93-3.21)

Data shown as median (IQR).

Table S4. TBRmax and TBRmean in vascular territories according to the presence of vascular calcification.

Territory	N	Calcium Score	TBR max	TBRmean
Right Carotid				
No	14	0	1.70 (1.35-2.05)	1.54 (1.20-1.79)
Yes	4	363 (163-1041)	2.22 (1.52-3.17)	1.95 (1.46-2.56)
Left Carotid				
No	13	0	1.81 (1.39-2.13)	1.59 (1.22-1.75)
Yes	5	281 (18-723)	2.34 (1.74-3.09)	1.96 (1.50-2.54)
Ascending				
No	14	0	1.48 (1.39-2.01)	1.19 (1.09-1.60)
Yes	4	45 (43-49)	1.66 (1.65-1.86)	1.30 (1.27-1.48)
Aortic Arch				
No	8	0	2.03 (1.59-2.65)	1.66 (1.26-2.19)
Yes	10	31 (10-514)	2.16 (1.82-2.29)	1.69 (1.42-1.81)
Desc. aorta				
No	12	0	2.62 (2.19-3.08)	1.98 (1.75-2.69)
Yes	6	711 (56-1827)	3.21 (2.22-5.31)	2.62 (1.74-4.60)
Abd. Aorta				
No	9	0	3.74 (2.50-4.77)	3.30 (2.55-3.75)
Yes	9	440 (191-4398)	4.00 (3.46-5.33)	3.33 (2.93-5.07)
Right Iliac ¹				
No	10	0	1.94 (1.21-2.10)	1.67 (1.04-1.91)
Yes	8	680 (231-2055)	2.77 (2.19-3.38)	2.00 (0.95-2.74)
Left Iliac				
No	10	0	1.63 (1.35-2.38)	1.51 (1.13-1.96)
Yes	8	309 (112-1860)	2.22 (1.86-3.37)	1.76 (1.39-2.82)
Right Femoral				
No	8	0	3.11 (2.48-3.41)	2.68 (2.14-2.94)
Yes	10	469 (206-1485)	2.63 (2.19-3.35)	1.95 (1.56-2.84)
Left Femoral				
No	9	0	2.89 (2.51-3.91)	2.45 (2.03-3.27)
Yes	9	594 (273-1686)	2.85 (2.17-3.73)	2.05 (1.82-2.79)
Right Popl ^{3,4}				
No	6	0	1.27 (0.88-1.80)	1.0 (0.76-1.35)
Yes	12	318 (13-815)	1.82 (1.37-2.25)	1.51 (1.21-1.86)
Left Popl ^{1,2}				
No	7	0	1.10 (0.88-1.61)	0.95 (0.78-1.31)
Yes	11	369 (22-996)	2.40 (1.97-2.68)	2.08 (1.64-2.39)

¹ $p < 0.05$ for TBRmax; ² $p < 0.05$ for TBRmean; ^{3 4} $p = 0.075$ for TBRmax and TBR mean. Data shown and median (IQR).