

AUTHOR AFFILIATIONS

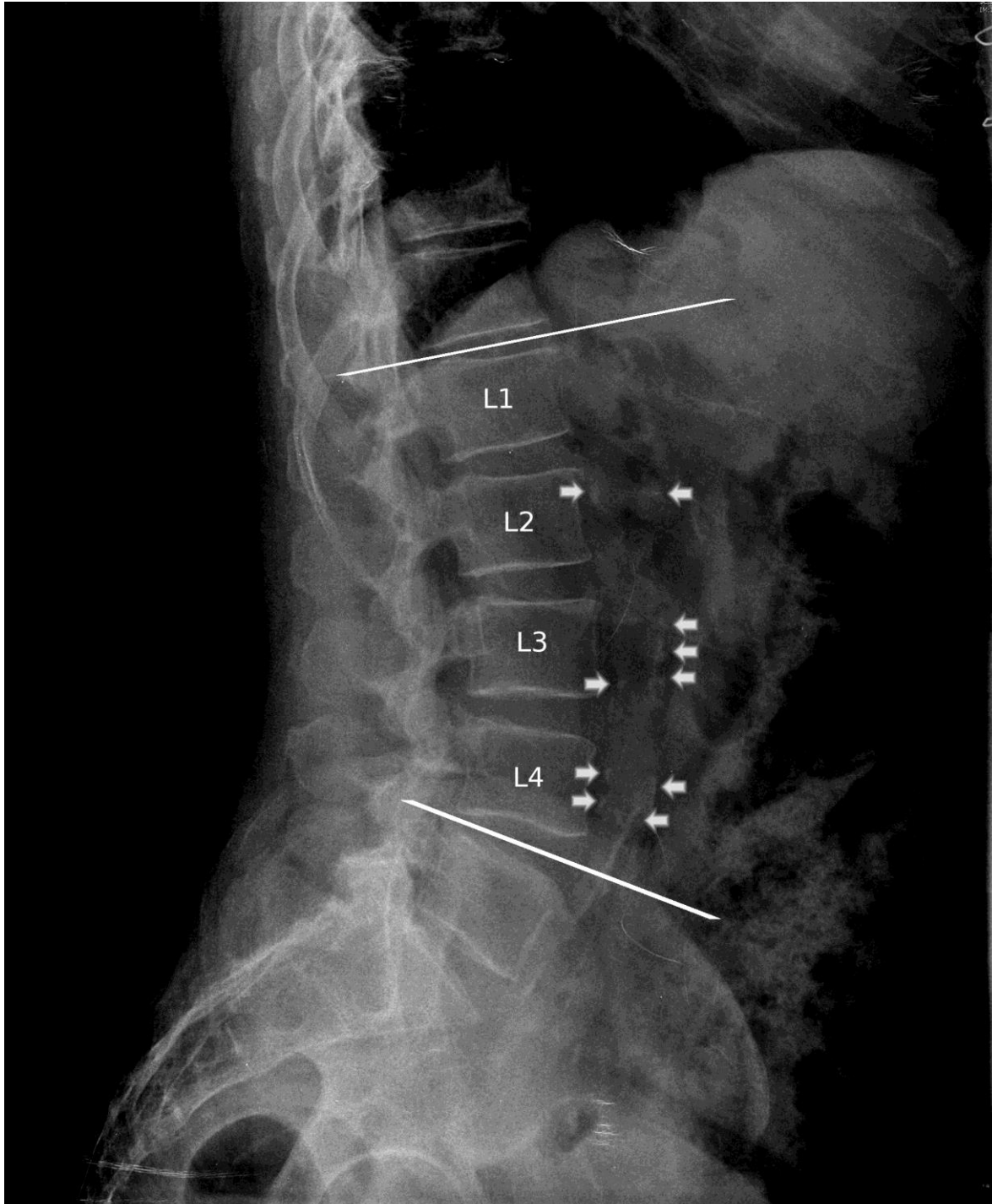
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SUPPLEMENTAL FIGURE 1. Adragao score is the sum of pelvis and hands score. Pelvis films are divided into four sections by two imaginary lines: a horizontal line over the upper limit of both femoral heads and a median vertical line over the vertebral column. Hands films are divided for each hand by a horizontal line over the upper limit of the metacarpal bones. Pelvis films evaluate iliac and femoral arteries (ileo-femoral score) and hands films evaluate radial and digital arteries (hands score). Any vascular calcification lining the vessel walls, either in an irregular pattern or in a linear pattern, was considered. The presence of vascular calcifications in each section was rated as 1 and its absence as 0. The total vascular calcification score was the sum of all sections and ranged from 0 to 8. In the example, pelvis score = 1 + 1 + 1 + 1 = 4; Hands score is 2; total score is the sum (6).



SUPPLEMENTAL FIGURE 2. Kauppila score. A lateral plain radiograph of the abdomen is obtained that includes the last two thoracic vertebrae and the first two sacral vertebrae. The aorta is identified as the tubular structure coursing in front of the anterior surface of the spine. A semiquantitative scoring system is utilized. Only the segments of abdominal aorta in front of the first to the fourth lumbar vertebra are considered. Points are assigned from 1–3 (1: small; 2 moderate; 3: large) according to the length of each calcified plaque identified along the anterior and posterior profile of the aorta in front of each of the lumbar vertebrae taken into consideration. With this numerical grading, the score could vary from a minimum of 0 to a maximum of 24 points. In the example, Kauppila score = 0 + 2 + 4 + 4 = 10.



SUPPLEMENTAL TABLE 1: Correlations between vascular calcification scores and baseline patient characteristics and centralized laboratory values.

Parameter	Kauppila Score		Adragao Score		Adragao Score-hands	
	r_s	P	r_s	P	r_s	p
Age	0.43	<0.001	0.20	0.003	0.13	0.001
Systolic BP	0.08	0.06	0.06	0.18	-0.01	0.79
Diastolic BP	-0.24	<0.001	-0.18	<0.001	-0.12	0.003
Pulse pressure	0.23	<0.001	0.17	<0.001	0.06	0.17
Waist circumference	0.15	0.001	0.10	0.02	0.10	0.02
eGFR	0.02	0.59	-0.08	0.07	-0.09	0.03
hsCRP	0.01	0.77	0.05	0.29	0.04	0.34
Ca _{alb}	-0.01	0.79	-0.07	0.09	-0.03	0.42
P	0.09	0.03	0.09	0.03	0.13	0.02
iPTH	0.01	0.76	0.06	0.18	0.10	0.01
25(OH)D	-0.02	0.61	-0.03	0.49	-0.04	0.35
1,25(OH) ₂ D	-0.01	0.83	-0.01	0.83	0.03	0.43

Note: Abbreviations: BP, Blood pressure; Ca_{alb}, calcium adjusted for albumin levels; eGFR, estimated glomerular filtration rate; hsCRP, high-sensitive c reactive protein; iPTH, intact parathyroid hormone; P, phosphorus; r_s , Spearman's rank correlation coefficient; 1,25(OH)₂D, 1,25(OH)₂vitamin D; 25(OH)D, 25-hydroxivitamin D.

SUPPLEMENTAL TABLE 2: Age-adjusted Cox regression analysis of the factors associated with all-cause mortality and for cardiovascular cause.

All-cause mortality (70 events)				Cardiovascular mortality (25 events)			
Factor	HR	95% CI	P	Factor	HR	95% CI	P
Age (unadjusted)	1.09	1.05-1.12	<0.001	Age (unadjusted)	1.11	1.06-1.17	<0.001
Sex (female)	0.80	0.46-1.26	0.28	Sex (female)	0.79	0.34-1.79	0.57
Comorbidity ^a	1.93	1.18-3.16	0.009	Comorbidity ^a	3.91	1.46-10.52	0.007
Smoking (active)	1.28	0.54-3.00	0.58	Smoking (active)	1.63	0.37-7.17	0.52
Diabetes mellitus	2.08	1.30-3.33	0.002	Diabetes mellitus	3.79	1.63-8.78	0.002
Etiology (diabetic nephropathy)	2.35	1.41-3.93	0.001	Etiology (diabetic nephropathy)	4.37	1.96-9.76	<0.001
Overweight ^b (BMI=25.0 to 29.9)	0.54	0.30-0.95	0.03	Overweight ^b (BMI=25.0 to 29.9)	0.43	0.16-1.11	0.08
Obesity (BMI>29.9)	0.58	0.31-1.07	0.08	Obesity (BMI>29.9)	0.60	0.22-1.62	0.32
Pathological waist ^c	0.55	0.32-0.96	0.04	Pathological waist ^c	0.42	0.18-0.97	0.04
Systolic blood pressure	1.00	0.99-1.01	0.41	Systolic blood pressure	0.99	0.97-1.01	0.16
Diastolic blood pressure	0.97	0.95-0.99	0.007	Diastolic blood pressure	0.95	0.91-0.98	0.004
Adragao score ≥3	2.76	1.57-4.85	<0.001	Adragao score ≥3	3.46	1.27-9.45	0.02
Adragao (numerical)	1.22	1.10-1.35	<0.001	Adragao (numerical)	1.30	1.10-1.55	0.003
Adragao (only hands, ≥1)	5.02	1.67-15.10	0.004	Adragao (only hands, ≥1)	4.41	1.70-11.46	0.002
Adragao (only hands, numerical)	1.57	1.12-2.20	0.008	Adragao (only hands, numerical)	1.65	1.23-2.21	0.001
Kaupilla score >6	1.50	0.86-2.59	0.15	Kaupilla score >6	1.78	0.67-4.68	0.25
Kaupilla (numerical)	1.08	1.03-1.13	0.001	Kaupilla (numerical)	1.08	1.00-1.17	0.04
ABI<0.9 or >1.3	1.36	0.84-2.21	0.22	ABI<0.9 or >1.3	1.18	0.53-2.64	0.69
eGFR (MDRD)	0.96	0.94-0.99	0.004	eGFR (MDRD)	0.95	0.91-0.99	0.03
Proteinuria (g/24h, log) ^d	1.22	0.97-1.52	0.08	Proteinuria (g/24h, log)	1.68	1.08-2.61	0.02
Albuminuria (mg/g, log) ^e	1.04	0.85-1.27	0.70	Albuminuria (mg/g, log)	1.02	0.75-1.39	0.92
Calcium	0.93	0.69-1.27	0.65	Calcium	1.31	0.75-2.30	0.34
Phosphorus	2.04	1.50-2.76	<0.001	Phosphorus	2.41	1.40-4.14	0.001
iPTH (log)	1.06	0.91-1.23	0.46	iPTH (log)	1.55	0.86-2.81	0.15
25-OH vitamin D	0.99	0.98-0.99	0.04	25-OH vitamin D	0.98	0.96-1.01	0.15
1,25(OH) ₂ vitamin D	0.97	0.95-0.99	0.01	1,25(OH) ₂ vitamin D	1.00	0.96-1.05	0.86
Albumin	0.54	0.31-0.94	0.03	Albumin	0.75	0.26-2.15	0.59
hs-CRP (log)	1.11	0.82-1.50	0.49	hs-CRP (log)	1.42	0.88-2.29	0.16
Transferrin	0.98	0.95-1.01	0.10	Transferrin	0.98	0.93-1.03	0.35
Total cholesterol	1.00	0.99-1.00	0.10	Total cholesterol	0.99	0.98-1.00	0.07
LDL cholesterol	0.99	0.98-1.00	0.09	LDL cholesterol	0.99	0.98-1.01	0.18
Glucose	1.01	1.00-1.01	0.08	Glucose	1.01	1.00-1.02	0.08
Hemoglobin	0.75	0.65-0.87	<0.001	Hemoglobin	0.65	0.51-0.84	0.001
Ferritin (log)	1.16	0.89-1.52	0.26	Ferritin (log)	1.44	0.91-2.25	0.12

Note: Abbreviations: eGFR, estimated glomerular filtration rate; hs-CRP, high-sensitive C reactive protein.

^aIncludes background of coronary disease, congestive cardiac insufficiency, cerebrovascular disease or peripheral vascular disease. ^bThere was only one malnourished patient (BMI<17.0), who was excluded from the analysis. ^cWeight >94 cm for men and >80 cm for women. ^dAvailable in 596 patients. ^eAvailable in 233 patients.