

Supplementary files

Supplementary Table S1. Bone histomorphometric parameters and serum markers of bone metabolism of the total ESKD cohort and according to the presence of diabetes mellitus.

	ESKD Patients All		Diabetes (<i>n</i> = 14)		Non-Diabetes (<i>n</i> = 54)		<i>p</i> -Value
Histomorphometric bone parameters							
B.Ar (%)	22.11	±6.44	21.59	±5.59	22.25	±6.69	0.9090
Min.Area (%)	98.3	(2.10)	98.0	±1.29	98.3	(2.24)	0.7219
O.Ar (%)	1.70	(2.09)	2.42	±1.22	1.60	(2.16)	0.2679
O.Pm (%)	19.92	(14.95)	19.67	±8.34	19.92	(16.52)	0.6110
E.Pm (%)	4.42	(4.92)	5.24	±3.59	4.41	(4.97)	0.9698
O.Wi (m)	7.408	(2.768)	8.208	±1.925	7.329	(2.954)	0.3249
Ob.Pm(T) (%)	1.33	(3.98)	2.70	±2.41	1.27	(3.87)	0.3510
Oc.Pm(T) (%)	0.63	(1.17)	0.34	(1.03)	0.67	(1.35)	0.4137
Tb.Th (m)	145.4	(42.0)	127.1	(37.0)	147.7	±25.5	0.2066
Tb.N (mm⁻¹)	1.936	±0.4654	1.977	±0.4372	1.925	±0.476	0.7086
Tb.Sp (m)	379.7	(188.0)	379.6	(153.5)	379.7	(187.1)	0.7086
Serum markers of bone metabolism							
BsAP (g/L)	19.95	(18.48)	35.71	±21.71	19.60	(14.62)	0.1393
P1NP (g/L)	83.65	(72.17)	91.44	± 63.02	88.35	(72.97)	0.5135
TRAP5b (U/L)	5.74	(3.63)	5.98	±3.04	5.93	±2.38	0.8513
lnPTH (pg/mL)	5.3	(1.1)	5.1	±1.1	5.3	(0.9)	0.4450
FGF23 (pg/mL)	1434.0	(6806.8)	1225.0	(4532.3)	1665.0	(7701.1)	0.9701
OPG (ng/mL)	9.2	(6.8)	12.2	±4.8	8.9	(6.2)	0.1137
sRANKL (ng/mL)	0.087	(0.098)	0.086	(0.116)	0.087	(0.096)	0.9368

Values are presented as mean ± SD or median (IQR) when variables were not normally distributed (*n* = 68). * *p* ≤ 0.05, ** *p* ≤ 0.01. B.Ar: bone area (% of tissue area), Min.Ar: Mineralized bone area (% of bone area), O.Ar: osteoid area (% of bone area), O.Pm: osteoid perimeter, E.Pm: eroded perimeter, O.Wi: osteoid width, Ob.Pm(T): osteoblast perimeter (relative to the total perimeter), Oc.Pm(T): osteoclast perimeter (relative to the total perimeter), Tb.Th: trabecular thickness, Tb.N: trabecular number, Tb.Sp: trabecular spacing, BsAP: bone-specific alkaline phosphatase, P1NP: procollagen type 1 N-terminal propeptide, TRAP5b: Tartrate-resistant acid phosphatase 5b, lnPTH: natural logarithm parathyroid hormone, FGF23: fibroblast growth factor 23, OPG: osteoprotegerin, sRANKL: soluble receptor activator of nuclear factor kappa-B ligand.

Supplementary Table S2. Spearman correlation matrix of skeletal sclerostin expression vs. serum sclerostin levels.

Number of Sclerostin Positive Osteocytic Lacunae/m ² Bone Area		
	Spearman <i>r</i>	<i>p</i> -value
Serum sclerostin levels		
Tecomedical	0.3040	0.0117 *
DiaSorin	0.3301	0.0060 **
BioMedica	0.2887	0.0170 *
R&D	0.2574	0.0341 *