

Table S1: Additional DXA and MicroCT parameters of the trabecular and cortical bone in ovariectomized mice supplemented with dried plum or the crude extract for 5 or 10 weeks.

	Sham-Con	OVX-Con	OVX-DP	OVX-Crude	P-Value
5 weeks					
Whole Body					
BMC (mg)	524.77 ± 11.34 ^b	472.46 ± 7.47 ^c	552.85 ± 9.09 ^{ab}	567.27 ± 11.41 ^a	<0.0001
BMA (cm ²)	10.17 ± 0.23 ^b	9.72 ± 0.15 ^b	10.94 ± 0.16 ^a	10.99 ± 0.19 ^a	<0.0001
Femur Mid-Diaphysis					
Medullary Area (um ²)	37.57 ± 0.50	38.03 ± 0.70	37.72 ± 0.68	37.62 ± 0.60	0.9550
Cortical Porosity (%)	4.44 ± 0.10	4.55 ± 0.10	4.65 ± 0.05	4.37 ± 0.09	0.1331
10 weeks					
Whole Body					
BMC (mg)	540.36 ± 8.69 ^a	453.71 ± 8.32 ^c	531.14 ± 10.74 ^{ab}	507.70 ± 9.96 ^b	<0.0001
BMA (cm ²)	10.20 ± 0.28 ^a	9.24 ± 0.13 ^b	10.32 ± 0.12 ^a	9.97 ± 0.16 ^a	<0.0001
Femur Mid-Diaphysis					
Medullary Area (um ²)	36.76 ± 0.27	37.50 ± 0.39	32.54 ± 3.07	36.90 ± 0.55	0.0752
Cortical Porosity (%)	4.27 ± 0.04	4.50 ± 0.07	4.47 ± 0.12	4.29 ± 0.05	0.0505

Data were analyzed using 1-way ANOVA and are presented as mean ± SE. Within a given row, groups that do not share the same superscript letter are significantly different from each other. Bone mineral content (BMC), bone mineral area (BMA). Sham-operated (SHAM), ovariectomized (OVX), control diet (Con), diet supplemented with dried plum (DP), diet supplemented with crude polyphenol extract (Crude).

Table S2: Simple effects of the PP and CHO components of the crude extract on other whole body DXA and trabecular and cortical microCT parameters.

					<i>P-Values</i>			
	OVX-Con	OVX-Crude	OVX-PP	OVX-CHO	PP vs Con	CHO vs Con	PP vs Crude	CHO vs Crude
5 weeks								
Whole Body								
BMC (mg)	472.46 ± 7.47	567.27± 11.41	510.31±10.37	531.93 ±7.05	0.0184	<0.0001	<0.0001	0.0105
BMA (cm²)	9.72 ± 0.15	10.99 ± 0.19	10.14 ± 0.15	10.53 ± 0.13	0.1759	0.0003	<0.0001	0.0620
Distal Femur								
TbTh (mm)	0.041 ± 0.001	0.041 ± 0.001	0.041± 0.002	0.042 ± 0.001	0.7550	0.9079	0.7413	0.9215
TbN (1/mm²)	3.09 ± 0.10	3.81 ± 0.04	3.22 ± 0.06	3.71 ± 0.11	0.2509	<0.0001	<0.0001	0.4110
TbSp (mm)	0.32± 0.01	0.26 ± 0.003	0.31 ± 0.007	0.27 ± 0.008	0.2141	0.0001	<0.0001	0.4130
Lumbar Vertebra								
TbTh (mm)	0.043 ± 0.001	0.048 ± 0.0004	0.046± 0.001	0.047 ± 0.001	0.0113	0.0003	0.0657	0.3479
TbN (1/mm²)	3.94 ± 0.09	3.95 ± 0.06	3.80 ± 0.08	3.96 ± 0.07	0.2073	0.8652	0.1774	0.9416
TbSp (mm)	0.260± 0.01	0.255 ± 0.004	0.267 ± 0.006	0.255 ± 0.005	0.1885	0.8139	0.1385	0.9588
Femur Mid-Diaphysis								
Medullary Area (um²)	38.03 ± 0.70	37.62 ± 0.60	39.17 ± 1.16	39.75 ± 0.79	0.3524	0.1738	0.1963	0.0865
Cortical Porosity (%)	4.55 ± 0.10	4.37 ± 0.09	4.73 ± 0.15	4.57 ± 0.09	0.2669	0.9212	0.0229	0.2159
10 weeks								
Whole Body								
BMC (mg)	453.71± 8.32	507.70 ± 9.96	499.13 ± 6.25	524.10 ± 5.53	0.0004	<0.0001	0.4975	0.1727
BMA (cm²)	9.24 ± 0.13	9.97 ± 0.16	9.64 ± 0.05	10.11 ± 0.12	0.0420	<0.0001	0.1190	0.4633
Distal Femur								
TbTh (mm)	0.045 ± 0.001	0.045 ± 0.001	0.047 ± 0.002	0.043 ± 0.001	0.4481	0.2021	0.4481	0.2427
TbN (1/mm²)	2.81 ± 0.08	3.28 ± 0.08	2.98 ± 0.05	3.53 ± 0.11	0.1936	<0.0001	0.0304	0.0520
TbSp (mm)	0.36 ± 0.01	0.30 ± 0.01	0.33 ± 0.01	0.28 ± 0.01	0.0673	<0.0001	0.0346	0.0914
Lumbar Vertebra								
TbTh (mm)	0.047 ±0.0004	0.050 ± 0.001	0.050 ± 0.001	0.050 ± 0.001	0.0041	0.0029	0.5906	0.4979
TbN (1/mm²)	3.37 ± 0.08	3.88 ± 0.19	3.67 ± 0.04	4.13 ± 0.11	0.1246	0.0002	0.2465	0.1460
TbSp	0.30 ± 0.01	0.26 ± 0.01	0.27 ± 0.003	0.24 ± 0.01	0.0721	0.0001	0.4567	0.0673
Femur Mid-Diaphysis								
Medullary Area (um²)	37.50 ± 0.39	36.90 ± 0.55	36.43 ± 0.48	36.46 ± 0.39	0.1167	0.0839	0.5020	0.4806
Cortical Porosity (%)	4.50 ± 0.07	4.29 ± 0.05	4.12 ± 0.10	4.36 ± 0.10	0.0068	0.2118	0.2337	0.5694

Data are presented as mean ± SE. Bone mineral content (BMC), bone mineral area (BMA). Ovariectomized (OVX), control diet (Con), diet supplemented with crude polyphenol extract (Crude), phenolic enriched diet (PP), and carbohydrate enriched diet (CHO).