

## Supplemental Table S2 Correlation at baseline between osteoclast parameters, demographics, RA characteristics and bone phenotype

Osteoclastic parameters included the number of osteoclast precursors (PBMC-CD14+ cells), and characteristics of PBMC-derived osteoclasts (osteoclast generated in vitro, osteoclast apoptosis and bone resorption). Correlations with these osteoclastic parameters and demographics or RA activity (DAS28 for tender or swollen joints, HAQ), as well as RA phenotype (seropositivity, erosions), and bone parameters (serum 25-OH vitamin D, lumbar or femoral T-score or BMD)

	PBMC- CD14+ cells			Osteoclasts/well			in vitro bone resorption			Osteoclast apoptosis		
	n	r	p	n	r	p	n	r	p	n	r	p
Age	139	0.06	0.481	140	0.000	0.999	139	0.134	0.115	100	0.063	0.534
BMI	139	0.085	0.317	140	0.067	0.429	139	0.204	0.016	100	0.093	0.358
Physical activity (hrs)	84	0.063	0.571	84	-0.086	0.436	84	-0.18	0.101	73	-0.169	0.152
<b>Disease Activity</b>												
DAS28 Swollen	139	-0.098	0.251	140	-0.165	0.051	139	0.019	0.827	100	-0.079	0.435
DAS28 Tender	139	-0.124	0.146	140	-0.18	0.033	139	0.054	0.53	100	-0.107	0.288
Index DAS28	138	-0.191	0.025	139	-0.202	0.017	138	0.028	0.741	99	-0.059	0.56
Disease activity (yes/no)	138	-0.149	0.08	139	-0.264	0.002	138	-0.033	0.702	99	-0.065	0.526
HAQ	139	-0.206	0.015	140	-0.073	0.394	139	-0.126	0.138	100	0.029	0.773
CRP	139	-0.113	0.185	140	-0.01	0.906	139	0.056	0.516	100	-0.055	0.587
<b>RA phenotype</b>												
RF	139	0.094	0.273	140	-0.047	0.585	139	0.075	0.382	100	-0.034	0.74
Anti-CCP	106	0.048	0.628	106	-0.099	0.312	105	-0.113	0.251	82	-0.086	0.441
RF+ or anti-CCP+	126	0.147	0.100	127	-0.124	0.165	126	-0.152	0.090	92	-0.045	0.672
Erosion SHS mean	139	-0.073	0.395	140	-0.15	0.077	139	-0.136	0.11	100	-0.133	0.186
Erosion SHS mean/yrs	136	-0.078	0.369	137	-0.16	0.062	136	-0.03	0.73	97	-0.144	0.16
<b>Bone phenotype</b>												
25OHD	131	0.092	0.296	131	-0.031	0.721	131	-0.191	0.028	95	0.059	0.572
Lumbar BMD	129	0.049	0.578	130	-0.049	0.582	129	0.288	0.001	92	-0.034	0.749
Lumbar ScoreT	132	0.004	0.963	133	-0.01	0.912	132	0.201	0.021	94	-0.007	0.946
Femoral BMD	127	0.051	0.567	128	0.035	0.697	127	0.127	0.155	91	-0.041	0.697
Femoral ScoreT	130	0.011	0.903	131	0.095	0.278	130	0.009	0.916	93	-0.063	0.546

Erosion SHS

Erosion score from the Sharp/van der Heijde modified method (SHS)

Total SHS

Total score from the Sharp/van der Heijde modified method (SHS)

Osteoclasts/well: number of multinucleated TRAP positive cells formed in cultures of PBMC-derived precursors

 p<0.05  
 Trends