

**Supplementary tables for:**

**Chong, et al. Association of adipokines with severity of knee osteoarthritis assessed clinically and on magnetic resonance imaging**

*Supplementary Table I: Assay information for Adipokines*

	Adipokine Function	Total samples available for measurement (%)	Mean intra assay CV (%)	Mean Inter assay CV (%)	Samples with un-detectable concentrations (%)	LLOD (pg/mL)	Manufacturer
(s) Leptin	Appetite regulation	139 (100)	16	23	0	19.0	Merck Group
(s) Adiponectin	Glucose level regulation	139 (100)	2	10	0	6.0	Merck Group
(s) Resistin	Regulation of production of LDL	139 (100)	2	8	0	2.6	Merck Group
(s) hs-CRP	Marker of systemic inflammation	139 (100)	8.3	8.3	0	0.1	MP Biomedicals

*CV, coefficient of variations; hs-CRP, high sensitivity C-Reactive protein; LDL, Low-Density Lipoprotein; LLOD, Lower Limit of Detection; pg/mL, picograms per milliliter; (s), serum; %, percentage.*

*Supplementary Table II. Spearman's correlations between biomarkers.*

	Spearman's Rho			
	(s)Leptin	(s)Resistin	(s)Adiponectin	(s)hs-CRP
(s)Leptin	1.00	0.16	-0.14	0.33**
(s)Resistin	0.16	1.000	0.12	0.12
(s)Adiponectin	-0.14	0.122	1.00	0.02
(s)hs-CRP	0.33**	0.12	0.02	1.00

*\*p<0.05, \*\*p<0.01, hs-CRP, high sensitivity C-Reactive protein; (s), serum.*

Supplementary Table III. Association of adipokines and hs-CRP with MRI and other features, Univariable analysis. (Participants with KL $\geq$ 2, n=53)

Dependent Variable	$\beta$ (95% confidence intervals)			
	(s) Leptin	(s) Adiponectin	(s) Resistin	(s) hs-CRP
OST Size	<b>1.20 (0.02, 2.37), p=0.046</b>	-1.16 (-4.10, 1.78), p=0.440	0.96 (-1.93, 3.85), p=0.514	<b>2.48 (0.80, 4.16), p=0.004</b>
% Cart Full Thickness Loss	0.29 (-0.16, 2.62), p=0.206	-0.18 (-1.30, 0.94), p=0.759	-0.26 (-1.36, 0.84), p=0.641	0.01 (-0.67, 0.70), p=0.967
BML Size	0.46 (-0.01, 0.94), p=0.057	-0.45 (-1.64, 0.74), p=0.460	-0.18 (-1.35, 0.99), p=0.768	-0.07 (-0.80, 0.66), p=0.850
Infrapatellar synovitis	0.18 (-0.14, 0.50), p=0.281	-0.13 (-0.91, 0.66), p=0.756	-0.30 (-1.07, 0.47), p=0.442	-0.29 (-0.19, 0.76), p=0.236
Effusion size	0.11 (-0.17, 0.38), p=0.444	0.05 (-0.62, 0.72), p=0.877	0.07 (-0.59, 0.72), p=0.841	0.07 (-0.34, 0.48), p=0.730
Meniscus Extrusion	0.26 (-0.01, 0.53), p=0.057	-0.70 (-0.74, 0.60), p=0.837	0.27 (-0.39, 0.92), p=0.424	<b>0.58 (0.20, 0.96), p=0.003</b>
KL Sum Score	-0.03 (-0.38, 0.33), p=0.885	0.35 (-0.49, 1.20), p=0.412	-0.28 (-1.09, 0.53), p=0.498	-0.12 (-0.63, 0.40), p=0.664
WOMAC Pain	3.39 (-2.56, 9.35), p=0.264	-3.03 (-17.64, 11.58), p=0.684	-6.09 (-19.90, 7.76), p=0.390	-2.15 (-11.03, 6.73), p=0.635
WOMAC Function	5.96 (-0.25, 12.17), p=0.060	4.85 (-10.67, 20.36), P=0.540	0.70 (-14.11, 15.51), p=0.927	5.22 (-4.14, 14.58), p=0.274

*Bold, statistically significant.*

*BML, Bone Marrow Lesion; Cart, Cartilage; hs-CRP, high sensitivity C-Reactive protein KL Sum Score, KL, Kellgren and Lawrence grading; MRI, Magnetic Resonance Imaging; OST, Osteophyte; (s), serum; WOMAC, Western Ontario and McMaster Universities Osteoarthritis Index.*