

Supplementary sheet 1

Fatty acid profile by gas chromatography analysis	Follicular fluid proportions (%)		p-value
	BSA	OA	
Saturated fatty acids (SFAs)			
C10:0 (Capric acid)	0.10±0.07	0.09±0.03	0.926
C11:0 (Undecyclic acid)	0.03±0.007	0.02±0.005	0.619
C12:0 (Lauric acid)	0.43±0.07	0.43±0.05	0.950
C13:0 (Tridecyclic acid)	0.13±0.02	0.15±0.02	0.539
C14:0 (Myristic acid)	2.34±0.18	2.41±0.44	0.885
C15:0 (Pentadecyclic acid)	1.76±0.35	1.53±0.14	0.598
C16:0 (Palmitic acid)	19.05±2.00	15.52±2.2	0.304
C17:0 (Margaric acid)	1.75±0.38	1.14±0.20	0.239
C18:0 (Stearic acid)	13.91±0.73	8.06±0.61	0.004
C20:0 (Arachidic acid)	0.59±0.12	0.49±0.08	0.525
C22:0 (Behenic acid)	1.53±0.07	1.44±0.05	0.388
C23:0 (Tricosylic acid)	0.61±0.05	0.36±0.17	0.238
C24:0 (Lignoceric acid)	2.49±0.12	1.92±0.27	0.135
Total SFAs	44.71±3.6	33.56±2.89	0.075
Monounsaturated fatty acids (MUFAs)			
C16:1cis-9 (Palmitoleic acid)	3.56±0.46	1.68±0.54	0.058
C18:1trans-9 (Vaccenic acid)	0.14±0.05	0.14±0.05	0.946
C18:1trans-11 (Elaidic acid)	0.35±0.07	0.12±0.02	0.047
C18:1cis-9 (Oleic acid)	13.59±2.5	46.51±5.8	0.007
C18:1cis-11 (Gondoic acid)	0.92±0.37	0.58±0.32	0.934
Total MUFAs	18.55±2.69	49.02±5.08	0.006
Polyunsaturated fatty acids (PUFAs)			
C18:2n-6 (Linoleic acid)	18.61±1.44	8.64±3.33	0.052
C18:3n-6 (Gamma-linolenic acid)	0.33±0.05	0.20±0.10	0.323
C18:3n-3 (Alpha-linolenic acid)	8.84±1.05	3.67±1.58	0.053
C20:3n-6 (Dihomo-gamma-linolenic acid)	2.23±0.27	0.75±0.30	0.024
C20:4n-6 (Arachidonic acid)	3.00±0.34	1.60±0.59	0.111
C20:5n-3 (Eicosapentaenoic acid)	1.53±0.37	0.68±0.40	0.199
C22:5n-3 (Dicosapantaenoic acid)	1.83±0.25	1.78±0.04	0.865
C22:6n-3 (Docosahexaenoic acid)	0.36±0.11	0.10±0.05	0.107
Total PUFAs	36.74±3.32	17.42±6.32	0.054
Total ω -3 PUFAs	12.57±1.74	6.23±1.99	0.075
Total ω -6 PUFAs	24.17±1.71	11.18±4.32	0.049

Proportional fatty acid profiles of follicular fluid samples obtained 48h post intrafollicular injection of BSA vehicle control (BSA) and BSA conjugated oleic acid (OA). Fatty acids were determined by gas chromatography. The data are shown as means±SEM, n=3. P-values are from unpaired t-test.