

Parameter (Unit)	C/VEH (n=6)	C/HDM (n=8)	HFHC/VEH (n=6)	HFHC/HDM (n=8)	Factor / Interaction	F-value (df)	P-value
I. METABOLIC PROFILE							
Body Mass (g)	352 ± 12	348 ± 15	365 ± 18	362 ± 21	HFHC diet	0.004 (1, 25)	0.952
Total Fat Index (%)	3.2 ± 0.3	3.4 ± 0.4	5.6 ± 0.6	5.9 ± 0.7	HFHC diet	26.13 (1, 22)	< 0.0001
Visceral Fat Index (%)	1.2 ± 0.1	1.3 ± 0.2	2.4 ± 0.3	2.5 ± 0.4	HFHC diet	48.00 (1, 22)	< 0.0001
Serum Glucose (mmol/L)	5.1 ± 0.3	5.4 ± 0.4	6.8 ± 0.5	7.0 ± 0.6	HFHC diet	8.724 (1, 23)	0.007
Serum Insulin (pmol/L)	125 ± 18	132 ± 22	215 ± 35	228 ± 41	HFHC diet	5.015 (1, 19)	0.037
HOMA-IR	4.1 ± 0.6	4.5 ± 0.8	6.2 ± 1.1	6.8 ± 1.3	HFHC diet	1.971 (1, 23)	0.174
Cholesterol (mmol/L)	1.8 ± 0.1	1.9 ± 0.2	2.6 ± 0.3	2.8 ± 0.3	HFHC diet	25.06 (1, 23)	< 0.0001
NEFA (mmol/L)	0.42 ± 0.05	0.48 ± 0.06	0.78 ± 0.12	0.85 ± 0.15	Interaction	5.74 (1, 25)	0.024
II. INFLAMMATION							
Serum IL-6 (pg/mL)	45.2 ± 5.1	112.4 ± 12.5	52.8 ± 6.3	84.6 ± 9.2	Interaction	14.30 (1, 22)	0.001
BALF IL-6 (pg/mL)	12.5 ± 2.1	68.4 ± 8.4	14.2 ± 3.2	74.5 ± 9.8	HDM treat.	6.808 (1, 17)	0.018
Blood Eosinophils (%)	1.5 ± 0.2	2.1 ± 0.4	1.7 ± 0.3	2.3 ± 0.5	HDM treat.	1.45 (1, 20)	0.242
Total IgE (units)	0.39 ± 0.01	0.46 ± 0.04	0.41 ± 0.03	0.40 ± 0.04	HDM treat.	0.74 (1, 24)	0.398
III. LUNG FUNCTION							

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Tidal Volume (TV)	6.8 ± 0.4	5.1 ± 0.3	5.4 ± 0.4	3.8 ± 0.3	Interaction	5.053 (1, 20)	0.036
Minute Volume (MV)	645 ± 35	485 ± 35	510 ± 38	342 ± 28	Interaction	10.82 (1, 22)	0.003
EF50	18.1 ± 1.1	14.2 ± 0.9	14.9 ± 1.1	9.8 ± 0.7	Interaction	4.396 (1, 25)	0.046
PIF	22.5 ± 1.5	18.6 ± 1.2	19.2 ± 1.4	13.5 ± 1.1	Interaction	10.29 (1, 25)	0.004
PEF	24.8 ± 1.8	19.2 ± 1.4	20.5 ± 1.6	14.2 ± 1.2	Interaction	7.702 (1, 21)	0.011