

Effects of Crystalline Silica Inhalation in a High-fat Western Diet-Induced Metabolic Dysfunction Rat Model in a Western Diet-Induced F344 Rat Model. Silica Alters Adipose Tissue Function and Inhibits Western Diet-Induced Systemic Inflammation

Data Dictionary

Field name	Field contents
ID#	Identification number of animals in the study
Diet	Type of food given to the animal
STD	Standard rat chow diet
HFWD	High-fat Western diet
Treatment	Silica or air exposure
Time (wk)	Week post-exposure to silica or filtered air
Weight (g)	Body weight
Length (cm)	Length measured from nose to base of tail
Girth (cm)	Abdominal circumference
BMI (g/cm ²)	Calculation of body mass divided by length ²
Fat Pad Wt. (g)	Epididymal fat pad weight
HDL (mg/dL)	High-density lipoprotein
Leptin (pg/ml)	Leptin concentration
Adiponectin (ng/ml)	Adiponectin concentration
Insulin (ng/ml)	Insulin concentration
Pre	Measurement made prior to silica (or air) exposure
0 wk	0-week post-exposure to silica or air exposure treatment
4 wk	4-week post-exposure to silica or air exposure treatment
8 wk	8-week post-exposure to silica or air exposure treatment
Fasting glucose	Measurement of blood glucose following 12 hours of fasting
Sample	Sample number recorded during Laser Doppler Flowmetry data acquisition
Time	Times measurement recorded during Laser Doppler Flowmetry data acquisition
PU	Perfusion units for Laser Doppler Flowmetry study data
RBC	Red blood cells (erythrocytes)
RET	Reticulocytes, immature red blood cells
PLT	Platelets
WBC	White blood cells
NEUT	Neutrophils
LYMPH	Lymphocytes
MONO	Monocytes
EO	Eosinophils
BASO	Basophils
K/ μ l	Units used in measurement of blood cell concentrations

Hz	Hertz, frequency unit used in Laser Doppler Flowmetry study
CREA	Creatine
BUN	Blood urea nitrogen
BUN/CREA	Ratio of blood urea nitrogen to creatine
PHOS	Phosphate
CA	Calcium
TP	Total protein
ALB	Albumin protein
GLOB	Globulin protein
ALB/GLOB	Albumin to globulin ratio
ALT	Alanine aminotransferase
ALKP	Alkaline phosphatase protein
GGT	Gamma-glutamyl transferase
TBIL	Total bilirubin
CHOL	Total cholesterol
TRIG	Triglyceride
AMYL	Amylase protein
cm	centimeter
g	gram
wk	week
dL	deciliter
pg	picogram
ng	nanogram
h	hour
d	day
mL	milliliter
IFN γ	Interferon Gamma
IL-10	Interleukin-10
IL-13	Interleukin-13
IL-1 β	Interleukin-1 Beta
IL-4	Interleukin-4
IL-5	Interleukin-5
IL-6	Interleukin-6
KCGRO	Keratinocyte chemoattractant (KC)/human growth regulated oncogene (GRO)
TNF α	Tumor Necrosis Factor Alpha
ND	Not detected or below detectable limits
mg	milligram
K/ μ L	Thousand cells per microliter
M/ μ L	Million cells per microliter
RBC	Red blood cell
RET	Reticulocyte

WBC	White blood cell
NEUT	Neutrophil
LYMPH	Lymphocyte
MONO	Monocyte
EO	Eosinophil
BASO	Basophil
PU	Arbitrary unit measure of blood flow
Freq	Unit measure of signal frequency AUC in the range of 0.2-0.4 Hz
Hz	Hertz
AUC	Area under the curve
LOQ	Lower limit of quantification
<LOQ	Below lower limit of quantification