

## Key of terms to identify data sets and variable in data sets

Term	Where is it used	Definition
Acute  Subchronic	In the name of data files for the acute study (Experiment 1:1 day exposure)  In the name of data files for the sub chronic study(Experiment 2: 4 week exposure)	Data file names identify which study the data were collected for and for (acute or one day exposure or repeated exposures referred to as subchronic).
Air or crude oil vapor (COV)	Air or COV within the file name or a heading in a dataset indicate which condition animals were in	Air or COV were used in the datafile names or in the headings for the datasets to designate whether animals were exposed to air or oil vapor. The number following that is the animal number.
Acetylcholine (ACh)  Phenylephrine (PE)	In datafile column heading and file names  In datafile column heading and file names	Drug used to dilate the ventral tail artery.  Drug used to stimulate $\alpha$ 1 adrenoreceptors the ventral tail artery.
"0" in a dataset  A blank spot in a dataset	In the PE datafiles  In the ACh datafiles	A "0" in the dataset indicates that a vessel constricted to a point that the internal diameter could no longer be picked up using densitometry or by measuring it using a metric ruler on the video screen.  A blank spot in a dataset indicates that there was no data for that specific data point.
day 1, 28 or 90	Used in the file names or within the data files	This designates the number of days after the exposure measures were collected or samples were taken.
vascular end systolic pressure	Column heading	Measures of systolic blood pressure after treatment with different doses of dobutamine

vascular end diastolic pressure	Column heading	Measures of diastolic blood pressure after treatment with different doses of dobutamine
D (dobutamine and then the dose in µg/kg body weight)	Row heading	Designates the concentration of dobutamine (µg/kg body weight)
Heart or kidney	Datafile name	Designates the tissue the measure was collected in
Nitrate nitrite NOx	Datafile name  In the column headings of the datafiles	Measures of nitrate nitrite (Nox) concentrations in tissues. Concentrations were normalized to protein levels in the samples
Hydrogen peroxide H2O2	Datafile name  In the column headings of the datafiles	Measures of hydrogen peroxide (H2O2) concentrations in tissues. Concentrations were normalized to protein levels in the samples.
ROS (reactive oxygen species)	Datafile name	Measure of general levels of reactive oxygen species using a fluorescent dye
Fluorescence	In the column headings of the datafiles	Intensity of the fluorescent signal which is a measure of the concentrations of reactive oxygen species.
PCR	Datafile name	Files with data collected by quantitative polymerase chain reaction (PCR)
A blank in the data set	In PCR datafiles	A blank spot in a dataset indicates that there was no data for that specific data point.
protein	Datafile name	Files with luminescent data from protein array assays

Definitions used to describe data set names and variables in the data sets

Study	Control animals	COV
Acute	<u>1 day</u> : 1, 2, 5, 6, 9, 10,13,14, <u>28 days</u> : 17, 18, 21, 22, 25, 26, 29, 30	<u>1 day</u> : 3, 4, 7, 8, 11, 12, 15, 16, <u>28 days</u> : 19, 20, 23, 24, 27, 28, 31, 32
sub chronic	<u>1 day</u> : 10, 11, 18, 19, 26, 27, 38, 39 <u>28 days</u> : 5, 6, 14,15, 34 35, <u>90 days</u> : 22, 23 30, 31, 42, 43, 46, 47	<u>1 day</u> : 12, 13, 20, 21, 28, 29, 40, 41 <u>28 days</u> : 7, 8, 16, 17, 36, 37, <u>90 days</u> : 24, 25, 32, 33, 44, 45, 48, 49

The animal numbers in each group for the acute and sub chronic studies