

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 α 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 |

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|---|--|--|
| 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