

Experiment Number: 60311 - 02
Test Type: 14-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Cobalt
CAS Number: 7440-48-4

Date Report Requested: 09/13/2016
Time Report Requested: 14:38:57
First Dose M/F: 08/02/04 / 08/02/04
Lab: BNW

NTP Study Number: C60311
Lock Date: 11/29/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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MALE MICE

FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 2.5 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 5 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 10 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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MALE MICE

FIRST TERMINAL SACRIFICE AT 17 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 20 MG/M3

TOTAL 5

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 5

UNCENSORED DEATH DAYS

None

CENSORED DEATH DAYS

None

DOSE = 40 MG/M3

TOTAL 5

UNCENSORED DEATHS 3

CENSORED DEATHS 0

TERMINAL 2

UNCENSORED DEATH DAYS

5 5 8

CENSORED DEATH DAYS

None

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MALE MICE
FIRST TERMINAL SACRIFICE AT 17 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	2	4	6	8	10	12	14	16	18	17(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.5 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 MG/M3	100.0	100.0	60.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0

- (A) FIRST TERMINAL SACRIFICE
(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".
(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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Lab: BNW

MALE MICE

FIRST TERMINAL SACRIFICE AT 17 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0 (0.0)	17.0 (0.0)	17.0 (0.0)	17.0 (0.0)

DOSE	20 MG/M3	40 MG/M3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	40.0%
SIGNIFICANCE (B) (LIFE TABLE)	----	P=0.172
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	6.0 (1.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0 (0.0)	10.4 (2.7)

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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Lab: BNW

FEMALE MICE

FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 2.5 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 5 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 10 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 20 MG/M3

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 40 MG/M3

TOTAL 5	UNCENSORED DEATHS 3	CENSORED DEATHS 0	TERMINAL 2
UNCENSORED DEATH DAYS			
6 7 9			
CENSORED DEATH DAYS			
None			

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	2	4	6	8	10	12	14	16	18	17(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.5 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 MG/M3	100.0	100.0	80.0	60.0	40.0	40.0	40.0	40.0	40.0	40.0

(A) FIRST TERMINAL SACRIFICE
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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
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FEMALE MICE

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0 (0.0)	17.0 (0.0)	17.0 (0.0)	17.0 (0.0)

DOSE	20 MG/M3	40 MG/M3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	40.0%
SIGNIFICANCE (B) (LIFE TABLE)	----	P=0.167
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	7.3 (0.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0 (0.0)	11.2 (2.4)

*** END OF REPORT ***

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)