

**Experiment Number:** 20303 - 06  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Vinylidene chloride  
**CAS Number:** 75-35-4

**Date Report Requested:** 03/26/2012  
**Time Report Requested:** 12:00:38  
**First Dose M/F:** 06/20/05 / 06/20/05  
**Lab:** BNW

F2\_M3

**NTP Study Number:** C20303  
**Lock Date:** 05/19/2008  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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**MALE MICE**

FIRST TERMINAL SACRIFICE AT **729** DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

**DOSE = Control**

TOTAL 50	UNCENSORED DEATHS 21						CENSORED DEATHS 0						TERMINAL 29
UNCENSORED DEATH DAYS													
443	488	501	512	535	550	589	596	610	623	629	639	642	652
661	670	694	704	708	712	719							
CENSORED DEATH DAYS													
None													

**DOSE = 6.25 ppm**

TOTAL 50	UNCENSORED DEATHS 10						CENSORED DEATHS 0						TERMINAL 40
UNCENSORED DEATH DAYS													
521	619	639	641	658	662	664	680	701	718				
CENSORED DEATH DAYS													
None													

**DOSE = 12.5 ppm**

TOTAL 50	UNCENSORED DEATHS 18						CENSORED DEATHS 0						TERMINAL 32
UNCENSORED DEATH DAYS													
404	428	429	508	509	514	570	599	600	604	606	637	641	642
648	648	659	726										
CENSORED DEATH DAYS													
None													

**DOSE = 25 ppm**

TOTAL 50	UNCENSORED DEATHS 31						CENSORED DEATHS 0						TERMINAL 19
UNCENSORED DEATH DAYS													
425	470	471	525	527	532	537	548	549	563	563	575	577	579
584	589	601	617	619	620	632	633	635	645	662	663	673	693
701	704	705											
CENSORED DEATH DAYS													
None													

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**MALE MICE**

FIRST TERMINAL SACRIFICE AT 729 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
Control	100.0	100.0	100.0	100.0	100.0	98.0	90.0	84.0	70.0	58.0
6.25 ppm	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	86.0	80.0
12.5 ppm	100.0	100.0	100.0	100.0	98.0	94.0	88.0	80.0	66.0	64.0
25 ppm	100.0	100.0	100.0	100.0	98.0	94.0	86.0	66.0	48.0	38.0

(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 729 DAYS

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	Control	6.25 ppm	12.5 ppm	25 ppm
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	58.0%	80.0%	64.0%	38.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.001	P=0.022N	P=0.791N	P=0.038
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	613.2 (17.7)	650.3 (17.1)	576.2 (21.5)	594.1 (12.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	680.4 (11.0)	713.3 (5.6)	674.0 (12.9)	645.4 (12.2)

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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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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 731 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = Control**

TOTAL 50                                      UNCENSORED DEATHS 14                                      CENSORED DEATHS 0                                      TERMINAL 36  
UNCENSORED DEATH DAYS  
325    440    491    509    572    590    599    605    611    628    635    647    649    726  
CENSORED DEATH DAYS  
None

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**DOSE = 6.25 ppm**

TOTAL 50                                      UNCENSORED DEATHS 25                                      CENSORED DEATHS 0                                      TERMINAL 25  
UNCENSORED DEATH DAYS  
471    478    478    529    554    558    563    582    584    590    592    596    600    603  
606    610    642    648    648    649    673    690    690    705    719  
CENSORED DEATH DAYS  
None

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**DOSE = 12.5 ppm**

TOTAL 50                                      UNCENSORED DEATHS 20                                      CENSORED DEATHS 0                                      TERMINAL 30  
UNCENSORED DEATH DAYS  
392    524    536    576    599    611    613    620    632    639    648    648    653    653  
665    668    670    689    703    704  
CENSORED DEATH DAYS  
None

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**DOSE = 25 ppm**

TOTAL 50                                      UNCENSORED DEATHS 26                                      CENSORED DEATHS 0                                      TERMINAL 24  
UNCENSORED DEATH DAYS  
413    415    415    440    443    502    508    512    519    556    562    564    592    599  
614    626    640    652    655    658    669    673    697    715    719    724  
CENSORED DEATH DAYS  
None

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FIRST TERMINAL SACRIFICE AT 731 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
Control	100.0	100.0	100.0	98.0	98.0	96.0	92.0	84.0	74.0	72.0
6.25 ppm	100.0	100.0	100.0	100.0	100.0	94.0	92.0	72.0	60.0	50.0
12.5 ppm	100.0	100.0	100.0	100.0	98.0	98.0	94.0	90.0	70.0	60.0
25 ppm	100.0	100.0	100.0	100.0	94.0	90.0	82.0	72.0	60.0	48.0

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FIRST TERMINAL SACRIFICE AT 731 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	Control	6.25 ppm	12.5 ppm	25 ppm
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	72.0%	50.0%	60.0%	48.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.064	P=0.046	P=0.399	P=0.027
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	573.4 (27.2)	602.3 (13.7)	622.2 (16.3)	580.1 (19.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	686.9 (12.5)	666.7 (11.4)	687.5 (10.0)	652.5 (14.8)

\*\*\* END OF REPORT \*\*\*

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