

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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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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MALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

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

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FEMALE MICE

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

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

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

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

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