

Experiment Number: 20314 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/NCTR

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Glycidamide
CAS Number: 5694-00-8

Date Report Requested: 12/17/2014
Time Report Requested: 07:40:57
First Dose M/F: 06/02/05 / 06/02/05
Lab: NCTR

NTP Study Number: C20314
Lock Date: 10/03/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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MALE MICE

FIRST TERMINAL SACRIFICE AT 726 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL WATER

TOTAL 48 UNCENSORED DEATHS 3 CENSORED DEATHS 0 TERMINAL 45
UNCENSORED DEATH DAYS
223 694 715
CENSORED DEATH DAYS
None

DOSE = 0.0875 GLYCID

TOTAL 48 UNCENSORED DEATHS 7 CENSORED DEATHS 0 TERMINAL 41
UNCENSORED DEATH DAYS
400 526 617 639 652 673 701
CENSORED DEATH DAYS
None

DOSE = 0.175 GLYCID

TOTAL 48 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 34
UNCENSORED DEATH DAYS
231 387 519 558 565 603 604 609 618 637 665 687 701 716
CENSORED DEATH DAYS
None

DOSE = 0.35 GLYCID

TOTAL 48 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 28
UNCENSORED DEATH DAYS
171 352 413 497 537 548 552 559 563 581 600 637 639 645
646 660 660 687 719 721
CENSORED DEATH DAYS
None

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MALE MICE

FIRST TERMINAL SACRIFICE AT 726 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0.70 GLYCID

TOTAL 48	UNCENSORED DEATHS 23								CENSORED DEATHS 0				TERMINAL 25
UNCENSORED DEATH DAYS													
99	388	472	530	558	569	574	574	579	583	586	590	604	623
626	653	659	669	694	705	708	708	721					
CENSORED DEATH DAYS													
None													

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MALE MICE

FIRST TERMINAL SACRIFICE AT 726 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	726(A)
CONTROL WATER	100.0	100.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	93.8
0.0875 GLYCID	100.0	100.0	100.0	100.0	97.9	97.9	95.8	95.8	89.6	85.4
0.175 GLYCID	100.0	100.0	97.9	97.9	95.8	95.8	93.8	85.4	77.1	70.8
0.35 GLYCID	100.0	97.9	97.9	95.8	93.8	93.8	89.6	77.1	64.6	58.3
0.70 GLYCID	100.0	97.9	97.9	97.9	95.8	93.8	91.7	72.9	64.6	52.1

(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 726 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL WATER	0.0875 GLYCID	0.175 GLYCID	0.35 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	93.8%	85.4%	70.8%	58.3%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.303	P=0.007	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	544.0 (160.6)	601.1 (39.5)	578.6 (34.9)	569.4 (29.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	714.6 (10.5)	707.8 (8.4)	683.0 (13.9)	660.7 (16.6)

DOSE	0.70 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	52.1%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	585.7 (27.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	658.8 (16.6)

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT **733** DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL WATER

TOTAL 48 UNCENSORED DEATHS 7 CENSORED DEATHS 0 TERMINAL 41
UNCENSORED DEATH DAYS
 399 559 636 683 688 708 722
CENSORED DEATH DAYS
None

DOSE = 0.0875 GLYCID

TOTAL 48 UNCENSORED DEATHS 6 CENSORED DEATHS 0 TERMINAL 42
UNCENSORED DEATH DAYS
 501 537 537 540 698 704
CENSORED DEATH DAYS
None

DOSE = 0.175 GLYCID

TOTAL 48 UNCENSORED DEATHS 10 CENSORED DEATHS 0 TERMINAL 38
UNCENSORED DEATH DAYS
 519 541 546 565 582 586 625 701 707 726
CENSORED DEATH DAYS
None

DOSE = 0.35 GLYCID

TOTAL 48 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 31
UNCENSORED DEATH DAYS
 243 379 512 520 533 544 621 622 644 667 673 674 701 701
 726 726 732
CENSORED DEATH DAYS
None

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 733 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0.70 GLYCID

TOTAL 48	UNCENSORED DEATHS 40								CENSORED DEATHS 0				TERMINAL 8
UNCENSORED DEATH DAYS													
276	282	331	384	394	421	428	477	498	498	520	527	533	534
541	544	547	548	548	555	558	562	562	576	597	614	614	618
630	639	645	647	652	653	659	665	687	691	691	697		
CENSORED DEATH DAYS													
None													

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FEMALE MICE
 FIRST TERMINAL SACRIFICE AT 733 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	733(A)
CONTROL WATER	100.0	100.0	100.0	100.0	97.9	97.9	97.9	95.8	93.8	85.4
0.0875 GLYCID	100.0	100.0	100.0	100.0	100.0	100.0	91.7	91.7	91.7	87.5
0.175 GLYCID	100.0	100.0	100.0	100.0	100.0	100.0	95.8	87.5	85.4	79.2
0.35 GLYCID	100.0	100.0	97.9	97.9	95.8	95.8	87.5	87.5	81.3	64.6
0.70 GLYCID	100.0	100.0	100.0	93.8	87.5	83.3	66.7	47.9	25.0	16.7

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 733 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL WATER	0.0875 GLYCID	0.175 GLYCID	0.35 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	85.4%	87.5%	79.2%	64.6%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=1.000N	P=0.553	P=0.030
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	627.9 (43.4)	586.2 (36.8)	609.8 (24.0)	601.1 (32.4)
MEAN LIFE SPAN (D) (STANDARD ERROR)	717.7 (8.0)	714.6 (8.3)	707.3 (8.7)	686.3 (14.5)

DOSE	0.70 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	16.7%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	551.1 (17.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	581.4 (17.4)

*** 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)