

**Experiment Number:** 20601 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Antimony trioxide  
**CAS Number:** 1309-64-4

**Date Report Requested:** 12/03/2014  
**Time Report Requested:** 09:59:56  
**First Dose M/F:** 10/06/08 / 10/06/08  
**Lab:** BNW

F1\_M3

<b>NTP Study Number:</b>	C20601		
<b>Lock Date:</b>	06/22/2011		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25022 ACCK 25019 MSAC	25021 TSAC	25020 NATD
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include ALL		
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	3.0.2.2_002		
<b>PWG Approval Date:</b>	NONE		

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**MALE MICE**

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

**DOSE = Control**

TOTAL 50	UNCENSORED DEATHS 12	CENSORED DEATHS 0	TERMINAL 38								
UNCENSORED DEATH DAYS											
512	590	599	626	627	662	663	664	670	677	702	702
CENSORED DEATH DAYS											
None											

**DOSE = 3 mg/m3**

TOTAL 50	UNCENSORED DEATHS 19	CENSORED DEATHS 1	TERMINAL 30										
UNCENSORED DEATH DAYS													
365	393	449	460	473	495	514	564	590	604	628	632	640	651
684	705	705	705	705									
CENSORED DEATH DAYS													
71													

**DOSE = 10 mg/m3**

TOTAL 50	UNCENSORED DEATHS 23	CENSORED DEATHS 0	TERMINAL 27										
UNCENSORED DEATH DAYS													
253	279	468	492	509	521	554	576	591	607	639	639	646	655
666	669	669	675	676	681	701	705	719					
CENSORED DEATH DAYS													
None													

**DOSE = 30 mg/m3**

TOTAL 50	UNCENSORED DEATHS 33	CENSORED DEATHS 0	TERMINAL 17										
UNCENSORED DEATH DAYS													
472	474	490	510	529	530	536	554	554	579	579	579	593	612
621	632	632	639	640	646	646	646	646	663	665	673	674	691
691	696	696	716	721									
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	100.0	98.0	94.0	84.0	76.0
3 mg/m3	100.0	100.0	100.0	98.0	95.9	89.8	85.7	79.6	71.4	61.2
10 mg/m3	100.0	100.0	98.0	96.0	96.0	94.0	88.0	82.0	72.0	54.0
30 mg/m3	100.0	100.0	100.0	100.0	100.0	96.0	86.0	74.0	50.0	34.0

(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

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	Control	3 mg/m3	10 mg/m3	30 mg/m3
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	76.0%	61.2%	54.0%	34.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.134	P=0.027	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	641.2 (15.7)	576.9 (25.6)	590.9 (26.1)	612.9 (12.4)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	707.9 (6.5)	658.1 (18.6)	665.5 (15.4)	652.4 (11.3)

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE  
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**FEMALE MICE**  
 FIRST TERMINAL SACRIFICE AT 731 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

**DOSE = Control**

TOTAL 50	UNCENSORED DEATHS 13	CENSORED DEATHS 1	TERMINAL 36									
UNCENSORED DEATH DAYS												
395	472	551	576	605	614	621	677	684	694	716	721	725
CENSORED DEATH DAYS												
255												

**DOSE = 3 mg/m3**

TOTAL 50	UNCENSORED DEATHS 19	CENSORED DEATHS 0	TERMINAL 31										
UNCENSORED DEATH DAYS													
444	511	558	559	590	606	613	631	632	635	645	660	671	677
708	711	713	719	719									
CENSORED DEATH DAYS													
None													

**DOSE = 10 mg/m3**

TOTAL 50	UNCENSORED DEATHS 24	CENSORED DEATHS 0	TERMINAL 26										
UNCENSORED DEATH DAYS													
404	423	493	512	519	521	526	530	554	589	589	596	600	624
639	651	654	673	684	685	703	709	713	722				
CENSORED DEATH DAYS													
None													

**DOSE = 30 mg/m3**

TOTAL 50	UNCENSORED DEATHS 35	CENSORED DEATHS 0	TERMINAL 15										
UNCENSORED DEATH DAYS													
404	414	422	424	470	488	493	513	526	549	572	582	593	600
606	607	609	624	628	640	670	672	674	674	677	680	691	691
691	696	701	710	719	719	726							
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	100.0	98.0	95.9	95.9	89.8	85.7	73.5
3 mg/m3	100.0	100.0	100.0	100.0	100.0	98.0	96.0	90.0	76.0	62.0
10 mg/m3	100.0	100.0	100.0	100.0	96.0	96.0	84.0	74.0	66.0	52.0
30 mg/m3	100.0	100.0	100.0	100.0	92.0	90.0	82.0	72.0	60.0	30.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	Control	3 mg/m3	10 mg/m3	30 mg/m3
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	73.5%	62.0%	52.0%	30.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.303	P=0.032	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	619.3 (28.1)	631.7 (17.3)	596.4 (18.6)	604.4 (16.6)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	692.4 (13.4)	693.3 (9.4)	666.4 (13.1)	642.4 (14.3)

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

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