

**Experiment Number:** 97010-01  
**Test Type:** 1-YEAR  
**Species/Strain:** Mouse/SKH-1/NCTR

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** alpha/beta Hydroxy acids (glycolic acid, salicylic acid)  
**CAS Number:** HYDROXGLYSAL

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 12:42:28  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**C Number:** C97010A  
**Lock Date:** Not Entered.  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Male  
**PWG Approval Date:** NONE

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**Lab:** NCTR

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = NO CREAMNO SSL</b>				
TOTAL 36	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 31	
<b>UNCENSORED DEATH DAYS</b>				
78	169	274	275	300
<b>CENSORED DEATH DAYS</b>				
none				
<b>DOSE = CTLCREAMNO SSL</b>				
TOTAL 18	UNCENSORED DEATHS 2	CENSORED DEATHS 0	TERMINAL 16	
<b>UNCENSORED DEATH DAYS</b>				
63	125			
<b>CENSORED DEATH DAYS</b>				
none				
<b>DOSE = NO CREAM0.3 MED</b>				
TOTAL 36	UNCENSORED DEATHS 4	CENSORED DEATHS 0	TERMINAL 32	
<b>UNCENSORED DEATH DAYS</b>				
7	168	172	287	
<b>CENSORED DEATH DAYS</b>				
none				
<b>DOSE = CTLCREAM0.3 MED</b>				
TOTAL 18	UNCENSORED DEATHS 4	CENSORED DEATHS 0	TERMINAL 14	
<b>UNCENSORED DEATH DAYS</b>				
175	207	239	340	
<b>CENSORED DEATH DAYS</b>				
none				

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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: NCTR

Male MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = NO CREAM0.6 MED</b>													
TOTAL 36			UNCENSORED DEATHS 7				CENSORED DEATHS 26				TERMINAL 3		
<b>UNCENSORED DEATH DAYS</b>													
268	285	301	304	306	325	340							
<b>CENSORED DEATH DAYS</b>													
282	289	289	296	296	296	296	296	297	297	303	311	311	318
318	324	324	325	325	332	332	332	339	339	346	346		
<b>DOSE = CTLCREAM0.6 MED</b>													
TOTAL 18			UNCENSORED DEATHS 3				CENSORED DEATHS 15				TERMINAL 0		
<b>UNCENSORED DEATH DAYS</b>													
307	314	314											
<b>CENSORED DEATH DAYS</b>													
261	268	282	289	289	296	296	304	304	317	317	317	317	332
332													
<b>DOSE = NO CREAM0.9 MED</b>													
TOTAL 36			UNCENSORED DEATHS 24				CENSORED DEATHS 12				TERMINAL 0		
<b>UNCENSORED DEATH DAYS</b>													
5	183	204	217	221	228	229	232	232	232	239	239	239	239
245	246	252	252	252	260	260	260	267	268				
<b>CENSORED DEATH DAYS</b>													
252	252	252	263	273	273	274	282	283	297	304	332		
<b>DOSE = 2% BHA NO SSL</b>													
TOTAL 18			UNCENSORED DEATHS 1				CENSORED DEATHS 0				TERMINAL 17		
<b>UNCENSORED DEATH DAYS</b>													
264													
<b>CENSORED DEATH DAYS</b>													
none													

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Date Report Requested: 10/19/2014  
 Time Report Requested: 12:42:28  
 First Dose M/F: NA / NA  
 Lab: NCTR

Male MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = 2% BHA 0.3 MED</b>									
TOTAL 18		UNCENSORED DEATHS 4			CENSORED DEATHS 2			TERMINAL 12	
<b>UNCENSORED DEATH DAYS</b>									
26	156	204	276						
<b>CENSORED DEATH DAYS</b>									
318	360								
<b>DOSE = 2% BHA 0.6 MED</b>									
TOTAL 18		UNCENSORED DEATHS 6			CENSORED DEATHS 10			TERMINAL 2	
<b>UNCENSORED DEATH DAYS</b>									
194	233	286	331	332	342				
<b>CENSORED DEATH DAYS</b>									
296	296	311	317	318	318	325	332	339	339
<b>DOSE = 4% AHA NO SSL</b>									
TOTAL 18		UNCENSORED DEATHS 3			CENSORED DEATHS 0			TERMINAL 15	
<b>UNCENSORED DEATH DAYS</b>									
7	147	340							
<b>CENSORED DEATH DAYS</b>									
none									
<b>DOSE = 4% BHA NO SSL</b>									
TOTAL 18		UNCENSORED DEATHS 1			CENSORED DEATHS 0			TERMINAL 17	
<b>UNCENSORED DEATH DAYS</b>									
162									
<b>CENSORED DEATH DAYS</b>									
none									

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 Species/Strain: Mouse/SKH-1/NCTR

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Date Report Requested: 10/19/2014  
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 First Dose M/F: NA / NA  
 Lab: NCTR

Male MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = 4% AHA 0.3 MED</b>										
TOTAL 18			UNCENSORED DEATHS 2			CENSORED DEATHS 2			TERMINAL 14	
<b>UNCENSORED DEATH DAYS</b>										
19	302									
<b>CENSORED DEATH DAYS</b>										
318	332									
<b>DOSE = 4% BHA 0.3 MED</b>										
TOTAL 18			UNCENSORED DEATHS 3			CENSORED DEATHS 0			TERMINAL 15	
<b>UNCENSORED DEATH DAYS</b>										
323	336	336								
<b>CENSORED DEATH DAYS</b>										
none										
<b>DOSE = 4% AHA 0.6 MED</b>										
TOTAL 18			UNCENSORED DEATHS 7			CENSORED DEATHS 11			TERMINAL 0	
<b>UNCENSORED DEATH DAYS</b>										
81	153	163	211	227	268	302				
<b>CENSORED DEATH DAYS</b>										
220	268	282	289	289	310	310	311	317	325	332
<b>DOSE = 4% BHA 0.6 MED</b>										
TOTAL 18			UNCENSORED DEATHS 8			CENSORED DEATHS 9			TERMINAL 1	
<b>UNCENSORED DEATH DAYS</b>										
233	268	303	340	342	344	358	359			
<b>CENSORED DEATH DAYS</b>										
296	304	310	311	318	325	360	360	360		

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 Lab: NCTR

Male MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = 10% AHA NO SSL</b>										
TOTAL 18		UNCENSORED DEATHS 1			CENSORED DEATHS 0			TERMINAL 17		
<b>UNCENSORED DEATH DAYS</b>										
15										
<b>CENSORED DEATH DAYS</b>										
none										
<b>DOSE = 10% AHA 0.3 MED</b>										
TOTAL 18		UNCENSORED DEATHS 4			CENSORED DEATHS 3			TERMINAL 11		
<b>UNCENSORED DEATH DAYS</b>										
207	282	320	335							
<b>CENSORED DEATH DAYS</b>										
297	318	346								
<b>DOSE = 10% AHA 0.6 MED</b>										
TOTAL 18		UNCENSORED DEATHS 7			CENSORED DEATHS 11			TERMINAL 0		
<b>UNCENSORED DEATH DAYS</b>										
2	169	199	261	261	268	354				
<b>CENSORED DEATH DAYS</b>										
275	282	282	282	289	290	290	290	317	325	360

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Male MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	37	74	111	148	185	222	259	296	333	363(A)
NO CREAMNO SSL	100.0	100.0	97.2	97.2	94.4	94.4	94.4	88.9	86.1	86.1
CTLCREAMNO SSL	100.0	94.4	94.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9
NO CREAM0.3 MED	97.2	97.2	97.2	97.2	91.7	91.7	91.7	88.9	88.9	88.9
CTLCREAM0.3 MED	100.0	100.0	100.0	100.0	94.4	88.9	83.3	83.3	83.3	77.8
NO CREAM0.6 MED	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4	76.3	63.6
CTLCREAM0.6 MED	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0
NO CREAM0.9 MED	97.2	97.2	97.2	97.2	94.4	86.1	47.2	29.7	0.0	0.0
2% BHA NO SSL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4	94.4	94.4
2% BHA 0.3 MED	94.4	94.4	94.4	94.4	88.9	83.3	83.3	77.8	77.8	77.8
2% BHA 0.6 MED	100.0	100.0	100.0	100.0	100.0	94.4	88.9	83.3	62.5	41.7
4% AHA NO SSL	94.4	94.4	94.4	88.9	88.9	88.9	88.9	88.9	88.9	83.3
4% BHA NO SSL	100.0	100.0	100.0	100.0	94.4	94.4	94.4	94.4	94.4	94.4
4% AHA 0.3 MED	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	88.9	88.9
4% BHA 0.3 MED	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4	83.3
4% AHA 0.6 MED	100.0	100.0	94.4	94.4	83.3	77.8	71.8	65.8	0.0	0.0
4% BHA 0.6 MED	100.0	100.0	100.0	100.0	100.0	100.0	94.4	88.9	83.0	36.9
10% AHA NO SSL	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
10% AHA 0.3 MED	100.0	100.0	100.0	100.0	100.0	94.4	94.4	88.9	82.5	76.2
10% AHA 0.6 MED	94.4	94.4	94.4	94.4	88.9	83.3	83.3	66.7	66.7	0.0

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**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>NO CREAMNO SSL</b>	<b>CTLCREAMNO SSL</b>	<b>NO CREAM0.3 MED</b>	<b>CTLCREAM0.3 MED</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	86.1%	88.9%	88.9%	77.8%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	219.2 (41.9)	94.0 (31.0)	158.5 (57.5)	240.3 (35.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	343.0 (9.9)	333.1 (20.7)	340.3 (12.2)	335.7 (14.3)

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**Lab:** NCTR

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>NO CREAM0.6 MED</b>	<b>CTLCREAM0.6 MED</b>	<b>NO CREAM0.9 MED</b>	<b>2% BHA NO SSL</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	63.6%	0.0%	0.0%	94.4%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	304.1 (9.0)	311.7 (2.3)	229.2 (10.6)	264.0 (.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	316.0 (4.0)	303.1 (4.7)	245.5 (8.3)	357.5 (5.5)

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**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>2% BHA 0.3 MED</b>	<b>2% BHA 0.6 MED</b>	<b>4% AHA NO SSL</b>	<b>4% BHA NO SSL</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	77.8%	41.7%	83.3%	94.4%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	165.5 (52.6)	286.3 (24.9)	164.7 (96.5)	162.0 (.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	316.4 (22.3)	313.1 (10.0)	329.9 (22.5)	351.8 (11.2)

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**Lab:** NCTR

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>4% AHA 0.3 MED</b>	<b>4% BHA 0.3 MED</b>	<b>4% AHA 0.6 MED</b>	<b>4% BHA 0.6 MED</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	88.9%	83.3%	0.0%	36.9%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	160.5 (141.5)	331.7 (4.3)	200.7 (28.3)	318.4 (16.3)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	336.3 (19.1)	357.8 (2.9)	258.8 (16.4)	325.2 (8.5)

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**Lab:** NCTR

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>10% AHA NO SSL</b>	<b>10% AHA 0.3 MED</b>	<b>10% AHA 0.6 MED</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	94.4%	76.2%	0.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	15.0 (.)	286.0 (28.6)	216.3 (42.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	343.7 (19.3)	338.8 (9.8)	266.4 (18.9)

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**First Dose M/F:** NA / NA  
**Lab:** NCTR

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

(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)