

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

Final 2 - Data Changes through 12-15-17 CDMA Core Rats Only

NTP Study Number:

C20105B

Lock Date:

12/29/2015

Cage Range:

ALL

Date Range:

ALL

Reasons For Removal:

25022 ACCK

25021 TSAC

25020 NATD

25019 MSAC

Removal Date Range:

ALL

Treatment Groups:

Include ALL

Study Gender:

Both

TDMSE Version:

3.0.2.3_002

PWG Approval Date:

NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0.0W/kg(CDMA)chr

TOTAL 90				UNCENSORED DEATHS 64				CENSORED DEATHS 1				TERMINAL 25			
UNCENSORED DEATH DAYS															
212	248	294	440	496	498	510	510	527	541	552	555	563	565		
567	569	577	580	580	582	584	590	595	600	604	604	610	616		
624	624	629	630	641	642	645	648	654	655	657	658	659	662		
662	662	663	663	666	671	677	681	685	687	688	691	691	704		
705	705	711	715	715	719	721	722								
CENSORED DEATH DAYS															
562															

DOSE = 1.5W/kg(CDMA)chr

TOTAL 90				UNCENSORED DEATHS 47				CENSORED DEATHS 0				TERMINAL 43			
UNCENSORED DEATH DAYS															
388	404	447	491	517	525	542	550	550	552	568	573	582	591		
597	605	608	610	614	615	615	624	634	637	647	655	662	663		
666	674	686	693	693	694	695	697	701	704	705	705	710	711		
711	717	719	719	722											
CENSORED DEATH DAYS															
None															

DOSE = 3.0W/kg(CDMA)chr

TOTAL 90				UNCENSORED DEATHS 34				CENSORED DEATHS 0				TERMINAL 56			
UNCENSORED DEATH DAYS															
317	353	383	393	471	495	577	592	595	604	606	610	614	619		
632	642	642	647	652	664	677	684	684	688	694	697	698	711		
713	717	720	726	726	728										
CENSORED DEATH DAYS															
None															

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MALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 6.0W/kg(CDMA)chr

TOTAL 90

UNCENSORED DEATHS 47

CENSORED DEATHS 0

TERMINAL 43

UNCENSORED DEATH DAYS

153	201	289	348	371	425	433	440	469	475	488	497	500	510
528	529	531	545	547	552	567	567	580	581	582	586	590	592
594	594	608	608	608	621	622	630	650	665	665	665	680	693
708	713	717	717	720									

CENSORED DEATH DAYS

None

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MALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
0.0W/kg(CDMA)chr	100.0	100.0	97.8	96.7	96.7	95.6	88.9	70.9	48.4	28.1
1.5W/kg(CDMA)chr	100.0	100.0	100.0	100.0	97.8	96.7	92.2	82.2	68.9	47.8
3.0W/kg(CDMA)chr	100.0	100.0	100.0	97.8	95.6	94.4	93.3	88.9	77.8	62.2
6.0W/kg(CDMA)chr	100.0	98.9	97.8	95.6	93.3	88.9	80.0	66.7	55.6	47.8

(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 RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0.0W/kg(CDMA)chr	1.5W/kg(CDMA)chr	3.0W/kg(CDMA)chr	6.0W/kg(CDMA)chr
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	28.1%	47.8%	62.2%	47.8%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.070N	P=0.005N	P<0.001N	P=0.072N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	609.4 (12.9)	625.3 (12.3)	616.8 (19.4)	552.2 (18.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	642.4 (10.8)	675.3 (8.5)	687.2 (9.3)	637.2 (13.5)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0.0W/kg(CDMA)chr

TOTAL 90				UNCENSORED DEATHS 41				CENSORED DEATHS 1				TERMINAL 48	
UNCENSORED DEATH DAYS													
268	353	464	464	489	489	492	492	493	508	513	524	531	531
531	547	550	550	550	565	578	608	614	622	622	629	634	636
641	656	660	662	662	662	668	690	707	709	711	712	719	
CENSORED DEATH DAYS													
202													

DOSE = 1.5W/kg(CDMA)chr

TOTAL 90				UNCENSORED DEATHS 45				CENSORED DEATHS 0				TERMINAL 45	
UNCENSORED DEATH DAYS													
300	300	300	319	339	407	464	493	532	550	570	578	579	605
612	614	614	623	628	635	647	649	649	656	657	660	674	675
676	695	696	696	699	699	699	706	711	711	711	714	723	724
729	729	731											
CENSORED DEATH DAYS													
None													

DOSE = 3.0W/kg(CDMA)chr

TOTAL 90				UNCENSORED DEATHS 40				CENSORED DEATHS 0				TERMINAL 50	
UNCENSORED DEATH DAYS													
16	268	416	417	450	464	483	493	493	493	503	516	531	531
545	545	545	550	559	598	627	631	643	648	652	656	662	663
669	674	678	699	702	704	707	711	711	711	724	728		
CENSORED DEATH DAYS													
None													

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 6.0W/kg(CDMA)chr

TOTAL 90

UNCENSORED DEATHS 29

CENSORED DEATHS 0

TERMINAL 61

UNCENSORED DEATH DAYS

305	492	522	536	550	557	560	579	579	587	593	626	633	638
651	663	668	669	674	678	694	695	696	702	702	711	711	717
720													

CENSORED DEATH DAYS

None

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	737(A)
0.0W/kg(CDMA)chr	100.0	100.0	98.9	97.8	97.8	95.5	83.1	76.4	61.8	53.9
1.5W/kg(CDMA)chr	100.0	100.0	100.0	94.4	93.3	92.2	90.0	84.4	71.1	50.0
3.0W/kg(CDMA)chr	98.9	98.9	97.8	97.8	95.6	92.2	81.1	77.8	68.9	55.6
6.0W/kg(CDMA)chr	100.0	100.0	100.0	98.9	98.9	98.9	95.6	87.8	82.2	67.8

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SURVIVAL SUMMARY STATISTICS				
DOSE	0.0W/kg(CDMA)chr	1.5W/kg(CDMA)chr	3.0W/kg(CDMA)chr	6.0W/kg(CDMA)chr
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	53.9%	50.0%	55.6%	67.8%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.020N	P=1.000	P=0.841N	P=0.037N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	578.2 (15.5)	608.4 (19.1)	575.4 (22.2)	624.4 (16.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	658.7 (12.1)	672.7 (11.7)	665.2 (13.0)	700.7 (7.7)

*** END OF REPORT ***

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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)