

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/25/2018

Time Report Requested: 17:04:16

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

HISTORICAL CONTROL STUDIES

From August 2017 report

SAME ROUTE

ALL ROUTES

20601-04 -- Antimony trioxide (INHALATION AIR)

20725-04 -- 2,3-Butanedione (INHALATION AIR)

20203-04 -- Green Tea Extract (GAVAGE WATER)

10260-02 -- 2-Hydroxy-4-methoxybenzophenone (ORAL FEED)

20515-04 -- Metal Working Fluids: CIMSTAR 3800 (INHALATION AIR)

20523-04 -- Metal Working Fluids: TRIM VX (INHALATION AIR)

10472-04 -- p-Chloro-a,a,a-trifluorotoluene (INHALATION AIR)

20209-04 -- Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)] (GAVAGE CORN OIL)

20320-04 -- Tetrabromobisphenol A (GAVAGE CORN OIL)

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF CELL PHONE RADIATION: GSM

FEMALE MICE

Organ

Skin

Morphology

Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/90 (1%)	1/89 (1%)	5/90 (6%)	4/90 (4%)
POLY-3 RATE (b)	1/80.44	1/81.33	5/86.68	4/84.38
POLY-3 PERCENT (g)	1.2%	1.2%	5.8%	4.7%
TERMINAL (d)	0/66 (0%)	0/63 (0%)	4/80 (5%)	3/72 (4%)
FIRST INCIDENCE	674	523	654	488
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	3/449 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.093	P=0.758N	P=0.124	P=0.197
POLY 1.5	P=0.090	P=0.757N	P=0.119	P=0.193
POLY 6	P=0.096	P=0.760	P=0.129	P=0.199
COCH-ARM / FISHERS	P=0.082	P=0.749	P=0.105	P=0.184
MAX-ISO-POLY-3	P=0.126	P=0.496N	P=0.064	P=0.100
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.002**	P=1.000	P<0.001**	P=0.002**
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	P=0.654			

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DOSE	Males			
	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/90 (1%)	1/89 (1%)	5/90 (6%)	4/90 (4%)
POLY-3 RATE (b)	1/80.44	1/81.33	5/86.68	4/84.38
POLY-3 PERCENT (g)	1.2%	1.2%	5.8%	4.7%
TERMINAL (d)	0/66 (0%)	0/63 (0%)	4/80 (5%)	3/72 (4%)
FIRST INCIDENCE	674	523	654	488
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	3/449 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.093	P=0.758N	P=0.124	P=0.197
POLY 1.5	P=0.090	P=0.757N	P=0.119	P=0.193
POLY 6	P=0.096	P=0.760	P=0.129	P=0.199
COCH-ARM / FISHERS	P=0.082	P=0.749	P=0.105	P=0.184
MAX-ISO-POLY-3	P=0.126	P=0.496N	P=0.064	P=0.100
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.002**	P=1.000	P<0.001**	P=0.002**
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	P=0.654			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females			
	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/90 (7%)	1/90 (1%)	7/90 (8%)	1/90 (1%)
POLY-3 RATE (b)	6/80.87	1/83.90	7/83.84	1/83.71
POLY-3 PERCENT (g)	7.4%	1.2%	8.4%	1.2%
TERMINAL (d)	2/67 (3%)	0/72 (0%)	3/69 (4%)	0/72 (0%)
FIRST INCIDENCE	607	562	646	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	5/450 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.125N	P=0.054N	P=0.527	P=0.055N
POLY 1.5	P=0.129N	P=0.057N	P=0.512	P=0.058N
POLY 6	P=0.120N	P=0.051N	P=0.544	P=0.051N
COCH-ARM / FISHERS	P=0.133N	P=0.059N	P=0.500	P=0.059N
MAX-ISO-POLY-3	P=0.044N*	P=0.025N*	P=0.412	P=0.025N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.128	P=1.000	P<0.001**	P=1.000
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	P<0.001**			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 106 WEEKS**

DOSE	Females			
	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/90 (6%)	1/90 (1%)	7/90 (8%)	1/90 (1%)
POLY-3 RATE (b)	5/80.87	1/83.90	7/83.84	1/83.71
POLY-3 PERCENT (g)	6.2%	1.2%	8.4%	1.2%
TERMINAL (d)	1/67 (2%)	0/72 (0%)	3/69 (4%)	0/72 (0%)
FIRST INCIDENCE	607	562	646	607
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	5/450 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.193N	P=0.097N	P=0.407	P=0.098N
POLY 1.5	P=0.199N	P=0.101N	P=0.394	P=0.102N
POLY 6	P=0.187N	P=0.092N	P=0.423	P=0.092N
COCH-ARM / FISHERS	P=0.203N	P=0.105N	P=0.383	P=0.105N
MAX-ISO-POLY-3	P=0.091N	P=0.046N*	P=0.300	P=0.046N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.128	P=1.000	P<0.001**	P=1.000
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	P=0.004**			

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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (n) No statistics are calculated if all dose groups have fewer than two tumors.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
- ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
- N Indicates a negative trend for all tests
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***