

Experiment Number: 20105 - 75
Test Type: CHRONIC
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Cell Phone Radiation: CDMA
CAS Number: CELLPRADCDMA

Date Report Requested: 01/25/2018
Time Report Requested: 17:21:10
First Dose M/F: 06/18/12 / 06/18/12
Lab: IIT

Custom Report - Skin Pools

NTP Study Number: C20105B
Lock Date: 04/07/2016
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: 2.5.0.0_sfh
PWG Approval Date: 08/24/2017

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HISTORICAL CONTROL STUDIES

From November 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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**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%)	1/91 (1%)	2/90 (2%)	0/90 (0%)
POLY-3 RATE (b)	1/80.44	1/87.34	2/84.50	0/82.78
POLY-3 PERCENT (g)	1.2%	1.1%	2.4%	0%
TERMINAL (d)	0/66 (0%)	1/83 (1%)	1/71 (1%)	0/71 (0%)
FIRST INCIDENCE	674	729 (T)	689	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	3/449 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.365N	P=0.742N	P=0.517	P=0.494N
POLY 1.5	P=0.364N	P=0.747N	P=0.512	P=0.495N
POLY 6	P=0.369N	P=0.736N	P=0.520	P=0.495N
COCH-ARM / FISHERS	P=0.368N	P=0.749N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.294N	P=0.476N	P=0.300	P=0.159N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.540	P=1.000	P=0.110	P=1.000
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	P=0.654			

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 TERMINAL SACRIFICE AT 105 WEEKS**

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%)	1/91 (1%)	2/90 (2%)	0/90 (0%)
POLY-3 RATE (b)	1/80.44	1/87.34	2/84.50	0/82.78
POLY-3 PERCENT (g)	1.2%	1.1%	2.4%	0%
TERMINAL (d)	0/66 (0%)	1/83 (1%)	1/71 (1%)	0/71 (0%)
FIRST INCIDENCE	674	729 (T)	689	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	3/449 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.365N	P=0.742N	P=0.517	P=0.494N
POLY 1.5	P=0.364N	P=0.747N	P=0.512	P=0.495N
POLY 6	P=0.369N	P=0.736N	P=0.520	P=0.495N
COCH-ARM / FISHERS	P=0.368N	P=0.749N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.294N	P=0.476N	P=0.300	P=0.159N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.540	P=1.000	P=0.110	P=1.000
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%)	2/89 (2%)	4/90 (4%)	3/90 (3%)
POLY-3 RATE (b)	6/80.87	2/83.93	4/84.05	3/82.85
POLY-3 PERCENT (g)	7.4%	2.4%	4.8%	3.6%
TERMINAL (d)	2/67 (3%)	1/74 (1%)	2/69 (3%)	2/71 (3%)
FIRST INCIDENCE	607	715	669	731
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	5/450 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.280N	P=0.127N	P=0.349N	P=0.235N
POLY 1.5	P=0.279N	P=0.135N	P=0.360N	P=0.241N
POLY 6	P=0.281N	P=0.117N	P=0.335N	P=0.228N
COCH-ARM / FISHERS	P=0.279N	P=0.143N	P=0.373N	P=0.248N
MAX-ISO-POLY-3	P=0.199N	P=0.070N	P=0.243N	P=0.146N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.021*	P=0.322	P=0.012*	P=0.062
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%)	2/89 (2%)	4/90 (4%)	3/90 (3%)
POLY-3 RATE (b)	5/80.87	2/83.93	4/84.05	3/82.85
POLY-3 PERCENT (g)	6.2%	2.4%	4.8%	3.6%
TERMINAL (d)	1/67 (2%)	1/74 (1%)	2/69 (3%)	2/71 (3%)
FIRST INCIDENCE	607	715	669	731
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	5/450 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.388N	P=0.206N	P=0.476N	P=0.346N
POLY 1.5	P=0.388N	P=0.216N	P=0.488N	P=0.353N
POLY 6	P=0.390N	P=0.193N	P=0.463N	P=0.338N
COCH-ARM / FISHERS	P=0.389N	P=0.227N	P=0.500N	P=0.360N
MAX-ISO-POLY-3	P=0.339N	P=0.118N	P=0.346N	P=0.227N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	P=0.021*	P=0.322	P=0.012*	P=0.062
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 ***