

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

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

NTP Study Number: C20105B

Lock Date: 12/29/2015

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25017 SSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.2.3_002

PWG Approval Date: NONE

Experiment Number: 20105 - 56

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Date Report Requested: 01/02/2018

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Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

	DAY ON TEST																
		0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	
HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	ANIMAL ID	0 0 5 0 5	0 0 5 0 5	0 0 5 2 2	0 0 2 2 2	0 0 3 3 3	0 0 3 3 3	0 0 5 5 5	0 0 5 6 7	0 0 5 7 8	0 0 5 8 9	0 0 5 9 2	0 0 5 9 0	0 0 5 0 3			

*** TOTALS****ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Lymphoid Tissue, Hyperplasia																	1 1.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell																	1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

	DAY ON TEST																	
		0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6		
HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	ANIMAL ID	0 0 5 0 5	0 0 5 0 5	0 0 5 2 2	0 0 2 2 8	0 0 3 3 1	0 0 3 3 2	0 0 3 3 7	0 0 5 6 6	0 0 5 7 8	0 0 5 9 9	0 0 5 8 9	0 0 5 2 2	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	
		5 0 0 5	5 0 0 5	5 2 2 2	2 2 2 8	3 3 3 1	3 3 3 2	5 6 6 7	5 6 6 8	5 7 8 9	5 8 9 2	5 9 0 0	5 0 0 3	0 0 0 0	0 0 0 0	0 0 0 0	* TOTALS	
		Aorta	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
		Heart	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
		Cardiomyopathy				1		2									2 1.5	
		Ventricle Right, Cardiomyopathy															1 1.0	
ENDOCRINE SYSTEM																		
Adrenal Cortex		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Adrenal Medulla		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Islets, Pancreatic		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Parathyroid Gland		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	M	+ +							9	
Pituitary Gland		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Thyroid Gland		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
GENERAL BODY SYSTEM																		
NONE																		
GENITAL SYSTEM																		
Epididymis		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Preputial Gland		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Inflammation, Chronic Active		2 1		3 1				2 1 2									7 1.7	

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

	DAY ON TEST																
		0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	
HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	ANIMAL ID	0 0 5 0 5	0 0 5 0 5	0 0 5 2 2	0 0 2 2 2	0 0 3 3 3	0 0 3 3 3	0 0 5 5 5	0 0 5 5 5	0 0 5 6 6	0 0 7 7 8	0 0 8 8 9	0 0 8 8 9	0 0 9 9 9	0 0 9 9 9	0 0 9 9 9	0 0 9 9 9
		5 5 0 7	5 5 0 8	5 5 2 5	5 5 2 6	5 3 3 8	5 3 3 1	5 5 7	5 5 6	6 6 6	7 8 8	8 9 9	2 2 2	0 0 0	3 0 3	* TOTALS	
Prostate		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Seminal Vesicle		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Testis		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
HEMATOPOIETIC SYSTEM																	
Bone Marrow		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Lymph Node, Mandibular Hemorrhage		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	2 1.0
Lymph Node, Mesenteric		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Spleen		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Thymus Hemorrhage		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	5 1.0
INTEGUMENTARY SYSTEM																	
Mammary Gland		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
Skin		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	
MUSCULOSKELETAL SYSTEM																	
Bone		+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	10	

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CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

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

Lab: IIT

	DAY ON TEST																			
		0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6	0 0 9 6				
HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	ANIMAL ID	0 0 5 0 5	0 0 5 0 5	0 0 5 2 2	0 0 2 2 2	0 0 3 3 3	0 0 3 3 3	0 0 5 5 5	0 0 5 6 7	0 0 5 8 9	0 0 5 9 2	0 0 5 9 0	0 0 5 0 3	* TOTALS						
		+ + + + + + + + + + + + + + + +	10																	
Skeletal Muscle																				
NERVOUS SYSTEM																				
Brain		+ + + + + + + + + + + + + + + +	10																	
Nerve Trigeminal		+ + + + + + + + + + + + + + + +	10																	
Peripheral Nerve, Sciatic		+ + + + + + + + + + + + + + + +	10																	
Peripheral Nerve, Tibial		+ + + + + + + + + + + + + + + +	10																	
Spinal Cord, Cervical		+ + + + + + + + + + + + + + + +	10																	
Spinal Cord, Lumbar		+ + + + + + + + + + + + + + + +	10																	
Spinal Cord, Thoracic		+ + + + + + + + + + + + + + + +	10																	
Trigeminal Ganglion		+ + + + + + + + + + + + + + + +	10																	
RESPIRATORY SYSTEM																				
Lung		+ + + + + + + + + + + + + + + +	10																	
Inflammation, Chronic Active		+ + + + + + + + + + + + + + + +	1 1.0																	
Nose		+ + + + + + + + + + + + + + + +	10																	
Trachea		+ + + + + + + + + + + + + + + +	10																	
SPECIAL SENSES SYSTEM																				

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CAS Number: CELLPRADCDMA

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Species/Strain: RATS/HSD

Lab: IIT

		DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		4	6	4	4	6	4	4	4	6	4	4	6	4	6	6	6
HARLAN SPRAGUE DAWLEY RATS MALE		ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0W/kg(CDMA)chr			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
			0	0	0	2	2	2	3	3	3	5	6	7	8	9	0
			5	7	8	5	6	8	1	2	7	6	8	9	2	0	3
* TOTALS																	
Eye			+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland			+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM																	
Kidney			+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive			1	1	1	1	2	1	1	1	1	1	1	1	1	1	9 1.1
Urinary Bladder			+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

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

Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 1.5W/kg(CDMA)chr	DAY ON TEST															
		0 0 9 6	0 0 9 6	0 0 9 4	0 0 9 6											
ANIMAL ID	0 1 3 4 1	0 1 3 4 2	0 1 3 4 7	0 1 3 5 0	0 1 3 6 3	0 1 3 7 0	0 1 3 7 1	0 1 3 8 5	0 0 4 9 5	0 1 4 0 7	0 0 4 0 4	0 1 4 1 6	0 1 4 2 8	0 1 4 0 0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		* TOTALS														

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Lymphoid Tissue, Hyperplasia																1 1.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell																1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

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Species/Strain: RATS/HSD

Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 1.5W/kg(CDMA)chr	DAY ON TEST	0 0 9 6	0 0 9 6	0 0 9 4	0 0 9 6	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 4	0 0 9 6			
	ANIMAL ID	0 1 3 4 1	0 1 3 4 2	0 1 3 4 7	0 1 3 5 9	0 1 3 6 0	0 1 3 7 0	0 1 3 7 1	0 1 3 8 5	0 0 4 0 4	0 1 4 0 6	0 1 4 1 8	0 1 4 2 0		
	Aorta	+ + + + + + + + + + + +													10
	Heart	+ + + + + + + + + + + +													10
	Artery, Inflammation, Chronic Active														1 1.0
	Ventricle Right, Cardiomyopathy	1		1		1	1	1	1	1					5 1.0
	* TOTALS														
	ENDOCRINE SYSTEM	+ + + + + + + + + + + +													10
	Adrenal Cortex	+ + + + + + + + + + + +													10
	Adrenal Medulla	+ + + + + + + + + + + +													10
	Islets, Pancreatic	+ + + + + + + + + + + +													10
	Parathyroid Gland	+ + + + + + + + + + M +													9
	Pituitary Gland Pars Intermedia, Cyst Rathke's Cleft, Cyst	+ + + + + + + + + + + +	X												10 1 1 1
	Thyroid Gland	+ + + + + + + + + + + +													10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

+ + + + + + + + + + + +

10

Preputial Gland

+ + + + + + + + + + + +

10

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Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|--|
| | | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | | |
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | | ANIMAL ID | | | | | | | | | | | | | | | | |
| | | 0
1
3
4
1 | 0
1
3
4
2 | 0
1
3
4
7 | 0
1
3
5
0 | 0
1
3
6
3 | 0
1
3
7
0 | 0
1
3
7
1 | 0
1
3
8
9 | 0
1
3
9
5 | 0
1
4
7
7 | 0
1
4
8
4 | 0
1
4
9
4 | 0
1
4
6
7 | 0
1
4
6
8 | 0
1
4
2
0 | * TOTALS | |
| Inflammation, Chronic Active | | | | | | | | 1 | 1 | | | 3 | | | | | 3 1.7 | |
| Prostate | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| Seminal Vesicle | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| Testis | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| Lymph Node, Mandibular Hemorrhage | | | | | | | | + | + | + | + | + | + | + | + | | 10 1 2.0 | |
| Lymph Node, Mesenteric | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| Spleen | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| Thymus Hemorrhage | | | | | | | | + | + | + | + | + | + | + | + | | 10 3 1.3 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | M | + | + | + | + | + | + | + | | 9 | |
| Skin | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | + | + | + | + | + | + | + | + | | 10 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|---------------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-------|
| | | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | |
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | ANIMAL ID | 0
1
3
4
1 | 0
1
3
4
2 | 0
1
3
3
7 | 0
1
3
3
9 | 0
1
3
5
0 | 0
1
3
6
3 | 0
1
3
7
0 | 0
1
3
7
1 | 0
1
3
7
9 | 0
1
3
5
5 | 0
1
3
7
7 | 0
1
3
7
8 | 0
0
0
0
7 | 0
1
1
4
4 | * TOTALS | |
| | | Skeletal Muscle | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | NERVOUS SYSTEM | | | | | | | | | | | | | | | |
| | | Brain | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Nerve Trigeminal | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Peripheral Nerve, Sciatic | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Peripheral Nerve, Tibial | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Spinal Cord, Cervical | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Spinal Cord, Lumbar | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Spinal Cord, Thoracic | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | Trigeminal Ganglion | | + + + + + + + + + + | | | | | | | | | | | | | 9 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | |
| Lung | Congestion | | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | 1 | | | | | | | | | | | | | | | 1 1.0 |
| Nose | | | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | | | | | |
| Trachea | | | | + + + + + + + + + + + + | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| DAY ON TEST
HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 6 | 6 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 4 | 4 | 5 | 6 | 7 | 7 | 7 | 8 | 9 | 0 | 0 | 1 | 2 | 0 |
| | | 1 | 2 | 7 | 9 | 0 | 3 | 0 | 1 | 9 | 5 | 7 | 4 | 6 | 8 | 0 |
| * TOTALS | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Retina, Developmental Malformation | | | | | | | | | X | | | | | | | 1 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | 1 | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | 2 | | | | | | | 1 2.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nephropathy, Chronic Progressive | | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 1.0 |
| Urinary Bladder | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | |
| ANIMAL ID | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | * TOTALS |
| Esophagus | | + | + | + | + | + | + | + | + | + | + | M | | | | 9 |
| Intestine Large, Cecum | | + | + | + | + | + | + | + | + | + | + | M | | | | 9 |
| Intestine Large, Colon | | + | + | + | + | + | + | + | + | + | + | M | | | | 9 |
| Intestine Large, Rectum | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |
| Intestine Small, Duodenum | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |
| Intestine Small, Ileum | | + | + | + | + | + | + | + | + | + | + | M | | | | 9 |
| Intestine Small, Jejunum | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |
| Liver | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | | 1 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | 1 1.0 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | M | | | | 9 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | | | | | 10 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| | | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | * TOTALS | |
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | ANIMAL ID | 0
1
5
5
5 | 0
1
5
5
5 | 0
1
5
5
5 | 0
1
5
5
5 | 0
1
6
6
0 | 0
1
6
6
0 | 0
1
6
6
1 | 0
1
6
6
2 | 0
1
6
6
2 | 0
1
6
6
3 | 0
1
6
6
3 | 0
1
6
6
4 | 0
1
6
6
4 | 0
1
6
6
7 | 0
1
6
6
7 | |
| | | 8
8 | 8
8 | 1
1 | 5
5 | 6
8 | 8
1 | 3
3 | 3
3 | 1
1 | 6
6 | 7
7 | 2
2 | 3
3 | 4
4 | 7
7 | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Aorta | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | | | | | | | 1 | | | 1 | | 1 | | | | | 3 1.0 |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | 1 1.0 |
| Ventricle Right, Cardiomyopathy | | | | | | | | | | | | | | | | | 4 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | M | | | 9 |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Rathke's Cleft, Cyst | | | | | | | | | | | | | X | | | | 1 |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | M | | | | 9 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | |
| Epididymis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Granuloma Sperm | | 3 | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

**HARLAN SPRAGUE DAWLEY RATS
MALE**
3.0W/kg(CDMA)chr

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 4 | 6 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 4 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5 | 6 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| 8 | 8 | 1 | 5 | 6 | 8 | 1 | 3 | 3 | 1 | 6 | 7 | 2 | 4 | 7 | 7 | 7 |

*** TOTALS**

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic Active | | 2 | 1 | 1 | | 2 | | 1 | | | 2 | | | | | 6 1.5 |

| | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | M | | | | | 9 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|

| | | | | | | | | | | | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|-------|
| Lymph Node
Inguinal, Pigment | | | | | | | | | | + | | | | | | 1 2.0 |
| | | | | | | | | | | 2 | | | | | | |

| | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | M | | | | | 9 |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|

| | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | M | | | | | 9 |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|

| | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | M | | | | | 9 |
|--------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|

| | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|----------|
| Thymus
Hemorrhage | + | + | + | + | + | + | + | + | + | + | M | | | | | 10 4 1.0 |
| | | 1 | | 1 | | 1 | | 1 | | 1 | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

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I .. Insufficient tissue

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

DAY ON TEST

**HARLAN SPRAGUE DAWLEY RATS
MALE**
3.0W/kg(CDMA)chr
 ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 4 | 6 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5 | 6 | 8 | 9 | 9 | 9 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 |
| 8 | 8 | 1 | 5 | 6 | 8 | 1 | 3 | 3 | 1 | 6 | 7 | 2 | 4 | 7 | |

*** TOTALS****MUSCULOSKELETAL SYSTEM**

| | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|--|---|
| Bone | + | + | + | + | + | + | + | + | + | M | | 9 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | M | | 9 |

NERVOUS SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|--|----|
| Brain | + | + | + | + | + | + | + | + | + | M | | 10 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | M | | 10 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | M | | 9 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | M | | 9 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | M | | 10 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | M | | 10 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | M | | 10 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | M | | 10 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|--|-------|
| Lung | + | + | + | + | + | + | + | + | + | M | | 10 |
| Inflammation, Chronic Active | 2 | | | | | | | | | | | 1 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | M | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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Experiment Number: 20105 - 56

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Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
6 | 0
0
9
6 | 0
0
9
6 | |
| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | ANIMAL ID | 0
1
5
5
5 | 0
1
5
5
5 | 0
1
5
5
5 | 0
1
5
5
5 | 0
1
6
6
6 |
| | | 8
8 | 8
8 | 1
1 | 5
5 | 6
8 | 8
1 | 3
3 | 3
3 | 1
1 | 6
6 | 7
7 | 2
2 | 3
3 | 3
4 | 4
7 | * TOTALS |
| Trachea | | + + | + + | + + | + + | + + | + + | + + | + + | + + | + M | | | | | | 9 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |
| Eye | | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | | | | | | 10 |
| Harderian Gland
Inflammation, Chronic Active | | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | | | | | | 10 |
| | | 1 | | 2 | | | | | | | | 1 | | | | | 3 1.3 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | |
| Kidney
Congestion
Nephropathy, Chronic Progressive | | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | | | | | | 10 |
| | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | | | | | 2 2.0 |
| | | | | | | | | | | | | 1 | | | | | 8 1.1 |
| Urinary Bladder | | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | | | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 6 | 5 | 0 | 1 | 8 | 9 | 3 | 4 | 8 | 1 | 2 | 6 | 0 | 9 | |
| | 3 | 9 | 9 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | |
| | 4 | 6 | 4 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | |
| | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 8 | 9 | 9 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | |
| | 9 | 2 | 6 | 5 | 0 | 1 | 8 | 9 | 3 | 4 | 8 | 1 | 2 | 6 | 0 | 9 |
| | 10 | | | | | | | | | | | | | | | |
| | 11 | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | 3 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | |
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | |
| | | 0
1
7
9
2 | 0
1
8
0
6 | 0
1
8
1
5 | 0
1
8
1
5 | 0
1
8
1
8 | 0
1
8
2
9 | 0
1
8
2
3 | 0
1
8
3
4 | 0
1
8
4
8 | 0
1
8
5
1 | 0
1
8
6
2 | 0
1
8
7
6 | 0
1
8
8
0 | 0
1
8
9
9 | 0
1
8
8
9 | 0
1
8
8
9 |

* TOTALS

| | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 1.0 |
| Ventricle Right, Cardiomyopathy | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland
Pars Intermedia, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|
| Epididymis
Hypospermia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 1 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST
ANIMAL ID | | | | | | | | | | | | | | | | | * TOTALS |
|--|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| 6 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | |
| 2 | 6 | 5 | 0 | 1 | 8 | 9 | 3 | 4 | 8 | 1 | 2 | 6 | 0 | 9 | | | | |
| | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | 3 1.3 |
| Prostate | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Inflammation, Chronic Active | | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| Seminal Vesicle | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Testis | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Germ Cell, Degeneration | | 4 | | | | | | | | | | | | | | | | 1 4.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | |
|------------------------|--|---|---|---|--|--|--|---|---|---|---|---|--|--|--|--|--|-------|
| Bone Marrow | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Lymph Node, Mandibular | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Hemorrhage | | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| Lymph Node, Mesenteric | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Hemorrhage | | | 1 | | | | | | | | | | | | | | | 1 1.0 |
| Spleen | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Thymus | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |
| Hemorrhage | | | | | | | | 1 | | | | | | | | | | 2 1.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---|---|--|--|--|---|---|---|---|---|--|--|--|--|--|----|
| Mammary Gland | | + | + | + | | | | + | + | + | + | M | | | | | | 9 |
| Skin | | + | + | + | | | | + | + | + | + | + | | | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | |
| ANIMAL ID | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | * TOTALS |
| | | 0
1
7
9
2 | 0
1
8
0
6 | 0
1
8
1
5 | 0
1
8
1
0 | 0
1
8
1
9 | 0
1
8
1
3 | 0
1
8
2
4 | 0
1
8
2
8 | 0
1
8
3
1 | 0
1
8
4
2 | 0
1
8
4
6 | 0
1
8
4
0 | 0
1
8
5
9 | 0
1
8
5
9 | 0
1
8
5
9 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Congestion | | | | 1 | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | 1 | | | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|
| | | 0
0
9
6 | 0
0
9
4 | 0
0
9
6 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
6 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | 0
0
9
4 | |
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | |
| | | 0
1
7
9
2 | 0
1
8
0
6 | 0
1
8
1
5 | 0
1
8
1
5 | 0
1
8
1
9 | 0
1
8
2
3 | 0
1
8
2
4 | 0
1
8
3
8 | 0
1
8
4
1 | 0
1
8
5
2 | 0
1
8
6
6 | 0
1
8
5
0 | 0
1
8
4
2 | 0
1
8
5
6 | 0
1
8
5
0 | 0
1
8
5
9 |
| Nose | | + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | 10 |
| Trachea | | + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | 10 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |
| Eye | | + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | 10 |
| Harderian Gland
Inflammation, Chronic Active | | + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | 10 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | |
| Kidney
Nephropathy, Chronic Progressive
Pelvis, Dilation | | + + +
1 1
2 | | + + + + +
1 1 1 1 1 | | + + + + +
1 1 1 1 1 | | + + + + +
1 1 1 1 1 | | + + + + +
1 1 1 1 1 | | + + + + +
1 1 1 1 1 | | + + + + +
1 1 1 1 1 | | + + + + +
1 1 1 1 1 | 10
9 1.0
1 2.0 |
| Urinary Bladder | | + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | | + + + + + | 10 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | |
| ANIMAL ID | | | | | | | | | | | | | | | | * TOTALS |
| | 0
0
6
0
1
6 | 0
0
6
0
1
2 | 0
0
6
3
2
0 | 0
0
6
4
3
8 | 0
0
6
5
4
0 | 0
0
6
6
5
0 | 0
0
6
7
6
2 | 0
0
6
7
7
7 | 0
0
6
8
8
3 | 0
0
6
8
8
6 | 0
0
6
8
8
2 | 0
0
6
7
7
0 | 0
0
6
7
0
2 | 0
0
6
7
0
2 | 0
0
6
7
0
2 | 0
0
6
7
0
2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | 1 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| <hr/> | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | |
| Aorta | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Heart | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Adrenal Medulla | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Islets, Pancreatic | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Parathyroid Gland | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Pituitary Gland | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Pars Distalis, Cyst | | | X | | | X | | | | | | | | | 2 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | 1 | |
| Thyroid Gland | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |
| Inflammation, Chronic Active | | | | | | | | | 1 | 1 | 1 | 1 | 1 | | 4 1.0 | |
| Ovary | | + | + | + | | + | | + | + | + | + | + | + | + | 10 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|
| | | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | ANIMAL ID | 0
0
6
0 | 0
0
6
0 | 0
0
6
6 | 0
0
6
6 | 0
0
5
4 | 0
0
5
5 | 0
0
6
6 | 0
0
7
7 | 0
0
7
7 | 0
0
8
8 | 0
0
8
8 | 0
0
8
8 | 0
0
0
0 | 0
0
0
0 | |
| | | 6
6
1
6 | 6
6
1
2 | 6
6
3
3 | 6
6
4
4 | 6
5
5 | 6
6
6 | 6
6
6 | 7
7
7 | 7
7
8 | 8
8
8 | 8
8
8 | 0
0
0 | 0
0
0 | 0
0
0 | |
| | | 6
2
7 | 7
0
8 | 0
0
0 | 0
0
2 | 7
7
3 | 3
6
6 | 2
2
5 | 5
5
0 | 0
0
0 | 2
0
2 | 0
0
0 | 0
0
0 | 0
0
0 | 0
0
0 | |
| | | * TOTALS | | | | | | | | | | | | | | |
| | | Follicle, Cyst | X | | | | | | | | | | | | | 1 |
| | | Uterus | + | + | + | | + | + | + | + | + | + | + | + | | 10 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Lymph Node, Mandibular | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Lymph Node, Mesenteric | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Spleen | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Thymus | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Hemorrhage | | | | | | | | | | | | | | | | 1 1.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Skin | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| Skeletal Muscle | | + | + | + | | + | | + | + | + | + | + | + | + | | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 |
| ANIMAL ID | | | | | | | | | | | | | | | | * TOTALS |
| | 0
0
6
0
1
6 | 0
0
6
0
1
2 | 0
0
6
3
2
0 | 0
0
6
4
3
8 | 0
0
6
5
4
0 | 0
0
6
6
5
0 | 0
0
6
7
6
2 | 0
0
6
7
7
7 | 0
0
6
8
8
6 | 0
0
6
8
8
2 | 0
0
6
8
8
5 | 0
0
6
8
8
0 | 0
0
6
8
8
2 | 0
0
6
8
8
0 | 0
0
6
8
8
2 | 0
0
6
8
8
2 |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trigeminal Ganglion | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | 9 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | 1 | | | | | | | | | | | 2 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------|
| | | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | |
| ANIMAL ID | | 0
0
6
0
1
6 | 0
0
6
0
1
2 | 0
0
6
3
2
0 | 0
0
6
4
3
8 | 0
0
5
4
5
0 | 0
0
6
6
2
0 | 0
0
6
6
7
2 | 0
0
6
7
3
7 | 0
0
8
8
8
5 | 0
0
8
8
0
5 | 0
0
7
0
0
0 | 0
0
7
0
0
2 | 0
0
7
0
0
0 | 0
0
7
0
0
0 | 0
0
7
0
0
0 | |
| | | * TOTALS | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | 1 | | | | | | | | | | | | | | | |
| Kidney
Nephropathy, Chronic Progressive | | + + + | | + 1 | + 1 | + 1 | + + + + + + + | | | | | | | | | | 10 3 1.0 |
| Urinary Bladder | | + + + | | + + + + + + + + + | | | | | | | | | | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 6 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 6 | 7 | 8 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 3 |
| | 4 | 2 | 4 | 8 | 8 | 0 | 2 | 3 | 6 | 7 | 8 | 9 | 8 | 8 | 9 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | 1 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST
ANIMAL ID | | | | | | | | | | | | | | | | |
|--|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | 0
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9
3 | 0
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3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 |
| | | 0
1
4
6
4 | 0
1
4
7
2 | 0
1
4
8
4 | 0
1
4
8
8 | 0
1
5
9
0 | 0
1
5
0
0 |
| | | | | | | | | | | | | | | | | | |

* TOTALS

| | | |
|-------|-----------------------------|----|
| Heart | + + + + + + + + + + + + + + | 10 |
|-------|-----------------------------|----|

ENDOCRINE SYSTEM

| | | |
|---|-------------------------------|------|
| Adrenal Cortex | + + + + + + + + + + + + + + | 10 |
| Adrenal Medulla | + + + + + + + + + + + + + + | 10 |
| Islets, Pancreatic | + + + + + + + + + + + + + + | 10 |
| Parathyroid Gland | + + + + + + + + + + + + + + | 10 |
| Pituitary Gland
Rathke's Cleft, Cyst | + + + + + + + + + + + + + + X | 10 1 |
| Thyroid Gland | + + + + + + + + + + + + + + | 10 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | |
|--|-----------------------------|-------------|
| Clitoral Gland
Inflammation, Chronic Active | + + + + + + + + + + + + + + | 10
4 1.3 |
| Ovary | + + + + + + + + + + + + + + | 10 |
| Uterus | + + + + + + + + + + + + + + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|--|
| | | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | ANIMAL ID | 0
1
4
6
4 | 0
1
4
7
2 | 0
1
4
8
8 | 0
1
5
0
0 | 0
1
5
0
2 | 0
1
5
0
3 | 0
1
5
0
6 | 0
1
5
0
7 | 0
1
5
0
8 | 0
1
5
0
9 | 0
1
5
1
8 | 0
1
5
1
9 | 0
1
5
3
8 | | |
| | | | | | | | | | | | | | | | * TOTALS | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus
Hemorrhage | + | + | + | + | + | + | + | + | 1 | 1 | + | + | + | + | + | 10
2 1.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | | 0
0
9
6 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
6 | | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | ANIMAL ID | 0
1
4
6
4 | 0
1
4
7
2 | 0
1
4
8
8 | 0
1
4
8
8 | 0
1
5
0
0 | 0
1
5
0
2 | 0
1
5
0
3 | 0
1
5
0
6 | 0
1
5
0
7 | 0
1
5
0
8 | 0
1
5
0
9 | 0
1
5
0
8 | 0
1
5
0
8 | 0
1
5
0
9 | 0
1
5
0
9 | * TOTALS |
| | | Peripheral Nerve, Sciatic | | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| | | Peripheral Nerve, Tibial | | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | Spinal Cord, Cervical | | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | Spinal Cord, Lumbar | | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | Spinal Cord, Thoracic | | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | Trigeminal Ganglion | | | + | + | + | + | + | + | + | + | + | + | + | + | 9 |
| | | Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| | | Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| | | Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| | | SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | |
| | | Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| URINARY SYSTEM | | Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| | | Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| | | Nephropathy, Chronic Progressive | | | | | 1 | | | 1 | | | | | | 1 | 3 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)chr | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 6 | 6 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 6 | 7 | 8 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 3 |
| | | 4 | 2 | 4 | 8 | 8 | 0 | 2 | 3 | 6 | 7 | 8 | 9 | 8 | 8 | 9 | 9 |

* TOTALS

Urinary Bladder

+ + + + + + + + + + + + + + + +

10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 6 | 3 | 3 | 6 | 3 | 6 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 6 | 6 | 6 | 8 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 5 | 5 |
| | 4 | 6 | 9 | 0 | 8 | 4 | 5 | 3 | 6 | 8 | 1 | 3 | 8 | 0 | 0 | 3 | * |
| | * TOTALS | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | 2 3.5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | ANIMAL ID | 0
1
6
6
4 | 0
1
6
6
6 | 0
1
6
8
8 | 0
1
6
8
9 | 0
1
7
9
5 | 0
1
7
0
5 | 0
1
7
1
3 | 0
1
7
2
6 | 0
1
7
2
8 | 0
1
7
3
1 | 0
1
7
3
3 | 0
1
7
4
8 | 0
1
7
5
0 | 0
1
7
5
3 | 0
1
7
5
3 | |
| | | * TOTALS | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | | | | 1 | | | | | | | | | | | | | 2 1.0 |
| Ventricle Right, Cardiomyopathy | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | M | + | | | 9 |
| Pituitary Gland
Pars Intermedia, Cyst | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 2 |
| Thyroid Gland
Ectopic Thymus | | + | + | + | + | + | + | + | + | + | + | + | X | | | | 10 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | |
| Clitoral Gland
Inflammation, Chronic Active | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 4 1.0 |
| Ovary | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST
ANIMAL ID | | | | | | | | | | | | | | | |
|--|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
6 | 0
0
9
3 |
| Follicle, Cyst | | X | | | | | | | | | | | | | | * TOTALS |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node
Pigment | | | | | | | | | | | | | | | | 1
2 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus
Hemorrhage | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10
1 1.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skeletal Muscle | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

* TOTALS

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| | | 0
0
9
3 | 0
0
9
6 | 0
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3 | 0
0
9
6 | 0
0
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6 | 0
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3 | 0
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6 | 0
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3 | 0
0
9
6 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | 0
0
9
3 | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | ANIMAL ID | 0
1
6
6
4 | 0
1
6
6
6 | 0
1
6
8
8 | 0
1
6
8
9 | 0
1
7
9
5 | 0
1
7
0
5 | 0
1
7
1
3 | 0
1
7
2
6 | 0
1
7
2
8 | 0
1
7
3
1 | 0
1
7
3
3 | 0
1
7
4
8 | 0
1
7
5
0 | 0
1
7
5
3 | 0
1
7
5
8 | |
| | | * TOTALS | | | | | | | | | | | | | | | |
| Harderian Gland | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | 10 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | |
| Kidney | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | 10 |
| Nephropathy, Chronic Progressive | | 1 1 | | | | | | | | | | | | | | | 4 1.0 |
| Urinary Bladder | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal
- 3) Moderate
- 2) Mild
- 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 5 | 5 | 5 | 6 |
| | 5 | 7 | 2 | 3 | 7 | 0 | 4 | 9 | 1 | 8 | 6 | 1 | 0 | 7 | 7 | 6 |
| | * TOTALS | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver
Infiltration Cellular, Mixed Cell
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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2) Mild 4) Marked

Experiment Number: 20105 - 56

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:50

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
|---|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
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3 | 0
0
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3 | 0
0
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3 | 0
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3 | |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | | ANIMAL ID | | | | | | | | | | | | | | | * TOTALS |
| Stomach, Glandular | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | |
| Aorta | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | 1 1.0 | |
| Heart | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | 2 1.0 | |
| Endocardium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | 1 3.0 | |
| Ventricle Right, Cardiomyopathy | | | | | | | | | | | | | | | | 1 1.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| Adrenal Medulla | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| Islets, Pancreatic | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| Parathyroid Gland | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 9 | |
| Pituitary Gland | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| Thyroid Gland | | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | 10 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | ANIMAL ID | 0
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3 | 0
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* TOTALS

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Inflammation, Chronic Active | | | | | 1 | | | | | | | | | 1 | 2 | 1.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | I | + | | | 9 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Extramedullary Hematopoiesis | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Hyperplasia, Epithelial | | | | | 1 | | | | | | | | | | 1 | 1.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:50

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | |
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| ANIMAL ID | | 0
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*** TOTALS****MUSCULOSKELETAL SYSTEM**

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skeletal Muscle
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

1 1.0

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 9 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

1 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Lab: IIT

| | DAY ON TEST | | | | | | | | | | | | | | | | |
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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | ANIMAL ID | | | | | | | | | | | | | | | | |
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| Trachea | | + + + + | + + + + | + + + + | + + + + | | | | | | | | | | | | 10 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |
| Eye | | + + + + | + + + + | + + + + | + + + + | | | | | | | | | | | | 10 |
| Conjunctiva, Inflammation, Chronic Active | | | | | | 1 | | | | | | | | | | | 1 1.0 |
| Harderian Gland | | + + + + | + + + + | + + + + | + + + + | | | | | | | | | | | | 10 |
| Inflammation, Chronic | | | | | 1 | | | | | | | | | | | | 1 1.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | |
| Kidney | | + + + + | + + + + | + + + + | + + + + | | | | | | | | | | | | 10 |
| Infiltration Cellular, Mixed Cell | | | | | 1 | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Nephropathy, Chronic Progressive | | | | | | 1 | 1 | 1 | | | | | | | | | 4 1.0 |
| Urinary Bladder | | + + + + | + + + + | + + + + | + + + + | | | | | | | | | | | | 10 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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