

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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

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Lab: IIT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS	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
MALE	4	6	4	4	6	4	4	4	4	6	4	4	4	6	6	6	
0.0W/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	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	
	0	7	8	5	2	6	2	3	3	3	5	6	7	8	9	0	
* 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
Pancreas	+		+	+		+	+	+	+		+	+	+				10
Salivary Glands	+		+	+		+	+	+	+		+	+	+				10
Stomach, Forestomach	+		+	+		+	+	+	+		+	+	+				10
Stomach, Glandular	+		+	+		+	+	+	+		+	+	+				10

CARDIOVASCULAR SYSTEM

Aorta	+		+	+		+	+	+	+		+	+	+				10
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* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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CAS Number: CELLPRADCDMA

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

Lab: IIT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE		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	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1.5W/kg(CDMA)chr																
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
		3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
		4	4	4	4	5	6	7	7	8	9	0	0	1	1	2	2
		1	2	7	9	0	3	0	1	9	5	7	4	6	8	0	0
* 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
Pancreas					+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands					+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach					+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular					+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

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Time Report Requested: 13:31:50

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

Lab: IIT

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

Heart				+		+	+	+	+	+	+	+	+	+	+	+		10
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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
Prostate				+		+	+	+	+	+	+	+	+	+	+		10
Seminal Vesicle				+		+	+	+	+	+	+	+	+	+	+		10

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Lab: IIT

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

ALIMENTARY SYSTEM

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
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M		9
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

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

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HARLAN SPRAGUE DAWLEY RATS MALE 3.0W/kg(CDMA)chr	DAY ON TEST															* TOTALS	
	0 9 4	0 9 6	0 9 4	0 9 6	0 9 4	0 9 4	0 9 4	0 9 4	0 9 4	0 9 4	0 9 4	0 9 6	0 9 6	0 9 4	0 9 4		0 9 6
ANIMAL ID	0 1 5 5 8	0 1 5 6 8	0 1 5 8 1	0 1 5 9 5	0 1 5 9 6	0 1 5 9 8	0 1 6 9 1	0 1 6 0 3	0 1 6 0 3	0 1 6 1 2	0 1 6 0 1	0 1 6 2 2	0 1 6 6 7	0 1 6 3 2	0 1 6 3 4	0 1 6 4 7	
	Heart	+	+		+	+	+	+	+	+				+	+		10
	ENDOCRINE SYSTEM																
	Adrenal Cortex	+	+		+	+	+	+	+	+				+	+		10
Adrenal Medulla	+	+		+	+	+	+	+	+				+	+		10	
Islets, Pancreatic	+	+		+	+	+	+	+	+				+	+		10	
Parathyroid Gland	+	+		+	+	+	+	+	+				+	M		9	
Pituitary Gland	+	+		+	+	+	+	+	+				+	+		10	
Thyroid Gland	+	+		+	+	+	+	+	+				+	M		9	
GENERAL BODY SYSTEM																	
NONE																	
GENITAL SYSTEM																	
Epididymis	+	+		+	+	+	+	+	+				+	+		10	
Preputial Gland	+	+		+	+	+	+	+	+				+	+		10	
Prostate	+	+		+	+	+	+	+	+				+	+		10	
Seminal Vesicle	+	+		+	+	+	+	+	+				+	+		10	

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DAY ON TEST	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	9
HARLAN SPRAGUE DAWLEY RATS MALE	4	6	4	6	4	4	4	4	4	4	6	6	4	4	6	6	6	
3.0W/kg(CDMA)chr																		
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	
	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	2	6	7	2	4	7	7	
	* TOTALS																	
Testis	+	+		+	+	+	+	+	+					+	+		10	
HEMATOPOIETIC SYSTEM																		
Bone Marrow	+		+		+	+	+	+	+	+				+	M		9	
Lymph Node															+		1	
Lymph Node, Mandibular	+		+		+	+	+	+	+	+				+	M		9	
Lymph Node, Mesenteric	+		+		+	+	+	+	+	+				+	M		9	
Spleen	+		+		+	+	+	+	+	+				+	M		9	
Thymus	+		+		+	+	+	+	+	+				+	+		10	
INTEGUMENTARY SYSTEM																		
Mammary Gland	+		+		+	+	+	+	+	+				+	+		10	
Skin	+		+		+	+	+	+	+	+				+	+		10	
MUSCULOSKELETAL SYSTEM																		
Bone	+		+		+	+	+	+	+	+				+	M		9	
Skeletal Muscle	+		+		+	+	+	+	+	+				+	M		9	
NERVOUS SYSTEM																		

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HARLAN SPRAGUE DAWLEY RATS MALE 3.0W/kg(CDMA)chr	DAY ON TEST															* TOTALS
	0 9 4	0 9 6	0 9 4	0 9 6	0 9 4	0 9 4	0 9 4	0 9 4	0 9 4	0 9 4	0 9 6	0 9 6	0 9 4	0 9 4	0 9 6	
ANIMAL ID	0 1 5 5 8	0 1 5 6 8	0 1 5 8 1	0 1 5 9 5	0 1 5 9 6	0 1 5 9 8	0 1 6 0 1	0 1 6 0 3	0 1 6 1 3	0 1 6 2 1	0 1 6 2 6	0 1 6 2 7	0 1 6 3 2	0 1 6 3 4	0 1 6 4 7	
Brain	+	+		+	+	+	+	+	+			+	+		10	
Nerve Trigeminal	+		+	+	+	+	+	+				+	+		10	
Peripheral Nerve, Sciatic	+		+	+	+	+	+	+				+	M		9	
Peripheral Nerve, Tibial	+		+	+	+	+	+	+				+	M		9	
Spinal Cord, Cervical	+		+	+	+	+	+	+				+	+		10	
Spinal Cord, Lumbar	+		+	+	+	+	+	+				+	+		10	
Spinal Cord, Thoracic	+		+	+	+	+	+	+				+	+		10	
Trigeminal Ganglion	+		+	+	+	+	+	+				+	+		10	
RESPIRATORY SYSTEM																
Lung	+		+	+	+	+	+	+				+	+		10	
Nose	+		+	+	+	+	+	+				+	+		10	
Trachea	+		+	+	+	+	+	+				+	M		9	
SPECIAL SENSES SYSTEM																
Eye	+		+	+	+	+	+	+				+	+		10	
Harderian Gland	+		+	+	+	+	+	+				+	+		10	

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HARLAN SPRAGUE DAWLEY RATS MALE 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	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	
		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	
		5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	
		8	8	1	5	6	8	1	3	3	1	6	7	2	4	7	
* TOTALS																	

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE		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	4	4	4	6	6	6	4	4	4	4	6	4	4		
	6.0W/kg(CDMA)chr																
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
		7	7	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	5	5	9
		2	6	5	0	1	8	9	3	4	8	1	2	6	0		
* 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
Pancreas	+	+	+															10
Salivary Glands	+	+	+															10
Stomach, Forestomach	+	+	+															10
Stomach, Glandular	+	+	+															10

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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 6.0W/kg(CDMA)chr	DAY ON TEST															ANIMAL ID	
	0 9 6	0 9 4	0 9 4	0 9 4	0 9 6	0 9 6	0 9 6	0 9 4	0 9 4	0 9 4	0 9 4	0 9 4	0 9 6	0 9 4	0 9 4		
	0 1 7 9 2	0 1 7 9 6	0 1 8 0 5	0 1 8 1 0	0 1 8 1 1	0 1 8 1 1	0 1 8 1 1	0 1 8 2 3	0 1 8 2 4	0 1 8 3 8	0 1 8 4 1	0 1 8 4 2	0 1 8 4 6	0 1 8 5 0	0 1 8 5 9		
																	* TOTALS

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS FEMALE		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
		3	3	6	3	6	6	3	6	3	3	3	3	3	3	6	
0.0W/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	0	0
	ANIMAL ID	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	0
	0	1	1	2	3	4	5	6	6	7	7	8	8	0	0	0	
	6	2	7	0	8	0	0	2	7	3	6	2	5	0	2		
* 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
Pancreas	+	+		+			+		+	+	+	+	+	+		10
Salivary Glands	+	+		+			+		+	+	+	+	+	+		10
Stomach, Forestomach	+	+		+			+		+	+	+	+	+	+		10
Stomach, Glandular	+	+		+			+		+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID
	93	93	96	93	96	96	93	96	93	93	93	93	93	93	96		
HARLAN SPRAGUE DAWLEY RATS FEMALE	0	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	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	
	6	2	7	0	8	4	0	6	7	3	6	2	8	5	0	2	
	* TOTALS																

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+		+			+		+	+	+	+	+	+	+	10
Adrenal Medulla	+	+		+			+		+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+		+			+		+	+	+	+	+	+	+	10
Parathyroid Gland	+	+		+			+		+	+	+	+	+	+	+	10
Pituitary Gland	+	+		+			+		+	+	+	+	+	+	+	10
Thyroid Gland	+	+		+			+		+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+		+			+		+	+	+	+	+	+	+	10
Ovary	+	+		+			+		+	+	+	+	+	+	+	10
Uterus	+	+		+			+		+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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	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	
		3	3	6	3	6	6	3	6	3	3	3	3	3	3	6	
	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		
		6	6	6	6	6	6	6	6	6	6	6	7	7	7		
		6	2	7	0	8	0	2	7	3	6	2	5	0	2		
																* TOTALS	

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + +

10

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS FEMALE		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	6	
	1.5W/kg(CDMA)chr																
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
		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	1	3	3	3	3
		4	2	4	8	8	0	2	3	6	7	8	9	8	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
Pancreas																		10
Salivary Glands																		10
Stomach, Forestomach																		10
Stomach, Glandular																		10

CARDIOVASCULAR SYSTEM

Aorta																		10
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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															* TOTALS
	0 9 6	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	0 9 3	0 9 3	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	
ANIMAL ID	0 1 4 6 4	0 1 4 7 2	0 1 4 8 4	0 1 4 8 8	0 1 4 9 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 3 8	0 1 5 3 9	
Bone Marrow			+	+	+	+		+	+		+	+	+	+	10	
Lymph Node, Mandibular			+	+	+	+		+	+		+	+	+	+	10	
Lymph Node, Mesenteric			+	+	+	+		+	+		+	+	+	+	10	
Spleen			+	+	+	+		+	+		+	+	+	+	10	
Thymus			+	+	+	+		+	+		+	+	+	+	10	
INTEGUMENTARY SYSTEM																
Mammary Gland			+	+	+	+		+	+		+	+	+	+	10	
Skin			+	+	+	+		+	+		+	+	+	+	10	
MUSCULOSKELETAL SYSTEM																
Bone			+	+	+	+		+	+		+	+	+	+	10	
Skeletal Muscle			+	+	+	+		+	+		+	+	+	+	10	
NERVOUS SYSTEM																
Brain			+	+	+	+		+	+		+	+	+	+	10	
Nerve Trigeminal			+	+	+	+		+	+		+	+	+	+	10	
Peripheral Nerve, Sciatic			+	+	+	+		+	+		+	+	+	+	10	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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	
		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	
		6	6	3	3	3	3	6	3	3	6	3	3	3	3	6	
	ANIMAL ID	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		
		4	4	4	4	4	5	5	5	5	5	5	5	5	5		
		6	7	8	8	9	0	0	0	0	0	0	1	3	3		
		4	2	4	8	8	0	2	3	6	7	8	9	8	8	9	
																* TOTALS	

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + +

10

* .. Total animals with tissue examined microscopically; Total animals with tumor
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X .. Lesion present
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A .. Autolysis precludes evaluation
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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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
		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	6	
		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
		6	6	6	8	8	9	0	1	2	2	3	3	4	5	5	5
		4	6	9	0	8	4	5	3	6	8	1	3	8	0	3	
* 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
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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															* TOTALS
	0 9 3	0 9 6	0 9 3	0 9 3	0 9 6	0 9 3	0 9 6	0 9 3	0 9 6	0 9 3	0 9 6	0 9 3	0 9 3	0 9 3	0 9 6	
ANIMAL ID	0 1 6 6 4	0 1 6 6 6	0 1 6 6 9	0 1 6 8 8	0 1 6 8 8	0 1 6 9 4	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 3 8	0 1 7 4 0	0 1 7 5 3	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
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																
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
HEMATOPOIETIC SYSTEM																

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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															* TOTALS
	0 9 3	0 9 6	0 9 3	0 9 3	0 9 6	0 9 3	0 9 6	0 9 3	0 9 3	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	
ANIMAL ID	0 1 6 6 4	0 1 6 6 6	0 1 6 6 9	0 1 6 6 8	0 1 6 8 8	0 1 6 9 4	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	
Bone Marrow	+		+	+		+		+	+		+	+	+	+	10	
Lymph Node													+		1	
Lymph Node, Mandibular	+		+	+		+		+	+		+	+	+	+	10	
Lymph Node, Mesenteric	+		+	+		+		+	+		+	+	+	+	10	
Spleen	+		+	+		+		+	+		+	+	+	+	10	
Thymus	+		+	+		+		+	+		+	+	+	+	10	
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 tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS FEMALE		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	6	3	3	3	3	6	3	3	3	3	6	6	3	3		
	6.0W/kg(CDMA)chr																	
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
		8	8	8	8	8	9	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	6
		5	7	2	3	7	0	0	4	9	1	8	1	0	7	6		
* 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
Pancreas																		
			+	+	+	+				+	+	+	+			+	+	10
Salivary Glands																		
			+	+	+	+				+	+	+	+			+	+	10
Stomach, Forestomach																		
			+	+	+	+				+	+	+	+			+	+	10
Stomach, Glandular																		
			+	+	+	+				+	+	+	+			+	+	10

CARDIOVASCULAR SYSTEM

Aorta																		
			+	+	+	+				+	+	+	+			+	+	10

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: CDMA

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	0 9 6	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	0 9 6	0 9 3	0 9 3	0 9 3	
ANIMAL ID	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	
Bone Marrow			+	+	+	+			+	+	+	+			+	+	10
Lymph Node, Mandibular			+	+	+	+			+	+	+	+			I	+	9
Lymph Node, Mesenteric			+	+	+	+			+	+	+	+			+	+	10
Spleen			+	+	+	+			+	+	+	+			+	+	10
Thymus			+	+	+	+			+	+	+	+			+	+	10
INTEGUMENTARY SYSTEM																	
Mammary Gland									+	+	+	+			+	+	10
Adenocarcinoma															X		1
Skin			+	+	+	+			+	+	+	+			+	+	10
MUSCULOSKELETAL SYSTEM																	
Bone			+	+	+	+			+	+	+	+			+	+	10
Skeletal Muscle			+	+	+	+			+	+	+	+			+	+	10
NERVOUS SYSTEM																	
Brain			+	+	+	+			+	+	+	+			+	+	10
Nerve Trigeminal			+	+	+	+			+	+	+	+			+	+	10
Peripheral Nerve, Sciatic			+	+	+	+			+	+	+	+			+	+	10

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	0 9 6	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	0 9 3	0 9 3	0 9 3	0 9 3	0 9 6	0 9 6	0 9 3	0 9 3	0 9 3	
ANIMAL ID	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	0 1 8 7 5	
Peripheral Nerve, Tibial			+	+	+	+			+	+	+	+			+	+	10
Spinal Cord, Cervical			+	+	+	+			+	+	+	+			+	+	10
Spinal Cord, Lumbar			+	+	+	+			+	+	+	+			+	+	10
Spinal Cord, Thoracic			+	+	+	+			+	+	+	+			+	+	10
Trigeminal Ganglion			+	+	+	+			+	+	M	+			+	+	9
RESPIRATORY SYSTEM																	
Lung			+	+	+	+			+	+	+	+			+	+	10
Nose			+	+	+	+			+	+	+	+			+	+	10
Trachea			+	+	+	+			+	+	+	+			+	+	10
SPECIAL SENSES SYSTEM																	
Eye			+	+	+	+			+	+	+	+			+	+	10
Harderian Gland			+	+	+	+			+	+	+	+			+	+	10
URINARY SYSTEM																	
Kidney			+	+	+	+			+	+	+	+			+	+	10
Urinary Bladder			+	+	+	+			+	+	+	+			+	+	10

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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	
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		6	6	3	3	3	3	6	3	3	3	6	6	3	3		
		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		
		7	7	8	8	8	0	0	0	1	1	3	4	5	5		
		5	7	2	3	7	0	4	9	1	8	6	1	0	7		
																* TOTALS	

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + +

10

*** END OF REPORT ***

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