

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

Final1_Rats (GSM)

NTP Study Number: C20105
Lock Date: 11/06/2014
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

25020 NATD

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DAY ON TEST		0	0	0	0	0	0	0	0	0	
HARLAN SPRAGUE DAWLEY RATS MALE		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	3	3	3	3	
		9	9	9	9	9	0	0	0	0	
	0W/kg(GSM)PreC										
ANIMAL ID		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	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
Extramedullary Hematopoiesis								1			1 1.0
Inflammation, Focal		1	1	1	1						4 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
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HARLAN SPRAGUE DAWLEY RATS MALE 0W/kg(GSM)PreC	DAY ON TEST										ANIMAL ID	
	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	3	3	3	3	3	2	
	9	9	9	9	9	0	0	0	0	0	9	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	1	0	
	1	2	3	4	5	6	7	8	9	0		
											* TOTALS	

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10	
Heart	+	+	+	+	+	+	+	+	+	+	10	
Cardiomyopathy										1		1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Accessory Adrenal Cortical Nodule					X							1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	+	+	+	+	+	+	M	M	M	+	7	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
Pars Distalis, Cyst	X			X								2
Rathke's Cleft, Dilation	2	2	2		1	1	3	1	3			8 1.9
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Ectopic Thymus		X										1
Ultimobranchial Cyst		X		X								2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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HARLAN SPRAGUE DAWLEY RATS MALE 0W/kg(GSM)PreC	DAY ON TEST										* TOTALS
	0 2 9	0 2 9	0 2 9	0 2 9	0 2 9	0 2 9	0 3 0	0 3 0	0 3 0	0 3 0	
ANIMAL ID	0 2 0 1	0 0 2 2	0 0 2 3	0 0 2 4	0 0 2 5	0 0 2 6	0 0 2 7	0 0 2 8	0 0 2 9	0 0 0 0	
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	10 4 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular Hemorrhage	+	+	+	+	+	+	+	+	+	+	10 2 1.5
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

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

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10		
Hemorrhage		2										1 2.0	
Inflammation		1										1 1.0	
Perivascular, Infiltration Cellular, Eosinophil						1						1 1.0	

Nose	+	+	+	+	+	+	+	+	+	+	10		
Glands, Respiratory Epithelium, Cyst										X		1	
Respiratory Epithelium, Hyperplasia					1	1						2 1.0	

Trachea	+	+	+	+	+	+	+	+	+	+	10
---------	---	---	---	---	---	---	---	---	---	---	----

SPECIAL SENSES SYSTEM

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

Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	----

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Nephropathy, Chronic Progressive		1						1	1			3 1.0	

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
HARLAN SPRAGUE DAWLEY RATS	2	2	2	2	2	3	3	3	3	3			
MALE	9	9	9	9	9	0	0	0	0	0			
0W/kg(GSM)PreC	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2			
	0	0	0	0	0	0	0	0	0	1			
	1	2	3	4	5	6	7	8	9	0			* TOTALS
Pelvis, Dilation							2						1 2.0
Renal Tubule, Casts Protein							1						1 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			10

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

Heart

+ + + + + + + + + +

10

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Preputial Gland

+ + + + + + + + + +

10

Inflammation, Chronic

1 1 1 2

4 1.3

Bilateral, Inflammation, Chronic

2

1 2.0

Testes

+

1

Germinal Epithelium, Left, Degeneration

2

1 2.0

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

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HARLAN SPRAGUE DAWLEY RATS MALE 3W/kg(GSM)PreC	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
		2	2	2	2	2	3	3	3	3	3	3	3	3	3
		9	9	9	9	9	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	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2	2
		6	6	6	6	6	6	6	6	6	6	6	7	7	7
		1	2	3	4	5	6	7	8	9	0	0	0	0	0

* TOTALS

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

10

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephropathy, Chronic Progressive		1		1			1					1		
Renal Tubule, Casts Protein									1	1				

10

4 1.0
2 1.0

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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	0	0	0	0	
HARLAN SPRAGUE DAWLEY RATS MALE	2	2	2	2	2	3	3	3	3	3	2	
	9	9	9	9	9	0	0	0	0	0	3	
6W/kg(GSM)PreC	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	
	2	2	2	2	2	2	2	2	2	3	4	
	1	2	3	4	5	6	7	8	9	0	4	
* TOTALS												

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+		10
Cardiomyopathy							2					1 2.0

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Preputial Gland	+	+	+	+	+	+	+	+	+	+		10
Inflammation, Chronic	1		1							1		3 1.0
Bilateral, Inflammation, Chronic		2										1 2.0

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

Brain

+ + + + + + + + + +

10

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

+ + + + + + + + + +

10

Nephropathy, Chronic Progressive

1

1 1.0

Interstitial, Infiltration Cellular

1 1

2 1.0

Pelvis, Dilation

3

1 3.0

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HARLAN SPRAGUE DAWLEY RATS MALE 9W/kg(GSM)PreC	DAY ON TEST	0	0	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	0
		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
		9	9	9	9	9	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
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
		1	2	3	4	5	6	7	8	8	9	9	9	9	9	9	9	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
Extramedullary Hematopoiesis				1		1												1	3 1.0
Infiltration Cellular, Mononuclear Cell								1											1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

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CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy							1				1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Accessory Adrenal Cortical Nodule						X					1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	I	+	+	+	+	+	+	+	+	+	9
Pars Distalis, Cyst						X					1
Rathke's Cleft, Dilation			2	2	2	2				2	5 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Ectopic Thymus	X										1

GENERAL BODY SYSTEM

NONE											
------	--	--	--	--	--	--	--	--	--	--	--

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	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 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	3	3	3	3	3	
HARLAN SPRAGUE DAWLEY RATS MALE 9W/kg(GSM)PreC	9	9	9	9	9	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	
	3	3	3	3	3	3	3	3	3	3	
	8	8	8	8	8	8	8	8	8	9	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic				1	1					1	3 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular Hemorrhage	+	+	+	+	+	+	1	+	+	2	10 2 1.5
Lymph Node, Mesenteric Hemorrhage	+	+	+	+	2	+	+	+	+	+	10 1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											

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Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 9W/kg(GSM)PreC	DAY ON TEST										* TOTALS
	0 0 2 9	0 0 2 9	0 0 2 9	0 0 2 9	0 0 2 9	0 0 3 0	0 0 3 0	0 0 3 0	0 0 3 0	0 0 3 0	
ANIMAL ID	0 0 3 8 1	0 0 3 8 2	0 0 3 8 3	0 0 3 8 4	0 0 3 8 5	0 0 3 8 6	0 0 3 8 7	0 0 3 8 8	0 0 3 8 9	0 0 3 8 0	
Bone	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage				1							1 1.0
Alveolus, Infiltration Cellular, Histiocyte				1							1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Respiratory Epithelium, Hyperplasia				1							1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive			1		1	1	1				4 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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Species/Strain: RATS/HSD

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CAS Number: CELLPRADGSM

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First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

*** END OF MALE DATA ***

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

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Lab: IIT

HARLAN SPRAGUE DAWLEY RATS FEMALE 0W/kg(GSM)PreC	DAY ON TEST	0	0	0	0	0	0	0	0	0	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	3	3	3	3		3	2	2	2	2	2	2	2	2	2
		9	9	9	9	9	0	0	0	0	0	3	3	3	3	3	3	3	3	4	
												1	2	3	4	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									
Extramedullary Hematopoiesis							1				1 1.0									
Hepatodiaphragmatic Nodule		X									1									
Inflammation, Focal		1				1			1	1	4 1.0									
Pancreas	+	+	+	+	+	+	+	+	+	+	10									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10									
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10									

CARDIOVASCULAR SYSTEM

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Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
HARLAN SPRAGUE DAWLEY RATS FEMALE	9	9	9	9	9	0	0	0	0	0
0W/kg(GSM)PreC	1	2	3	4	5	6	7	8	9	4
* TOTALS										

Blood Vessel + + + + + + + + + + **10**

Heart + + + + + + + + + + **10**

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + **10**
 Accessory Adrenal Cortical Nodule X X X **4**

Adrenal Medulla + + + + + + + + + + **10**

Islets, Pancreatic + + + + + + + + + + **10**

Parathyroid Gland + + + + + + + + + + **10**

Pituitary Gland + + + + + + + + + + **10**
 Rathke's Cleft, Dilation 1 1 1 1 1 1 **6 1.0**

Thyroid Gland + + + + + + + + + + **10**
 Ectopic Thymus X X X **5**
 Ultimobranchial Cyst X X **3**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + + + + + + + + + + **10**
 Inflammation, Chronic 1 1 1 1 1 **5 1.0**

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 + .. Tissue examined microscopically M .. Missing tissue
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Lab: IIT

DAY ON TEST HARLAN SPRAGUE DAWLEY RATS FEMALE 0W/kg(GSM)PreC	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	3	3	3	3	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	2		
	3	3	3	3	3	3	3	3	3	3		
	1	2	3	4	5	6	7	8	9	4		
											* TOTALS	
Bilateral, Inflammation, Chronic				1								1 1.0
Ovary	+	+	+	+	+	+	+	+	+	+		10
Mineral			1									1 1.0
Uterus	+	+	+	+	+	+	+	+	+	+		10
HEMATOPOIETIC SYSTEM												
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
NERVOUS SYSTEM												

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

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HARLAN SPRAGUE DAWLEY RATS FEMALE 0W/kg(GSM)PreC	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			
	2	2	2	2	2	3	3	3	3	3	2			
	9	9	9	9	9	0	0	0	0	0	3			
	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2	2			
	3	3	3	3	3	3	3	3	3	3	3			
	1	2	3	4	5	6	7	8	9	4	0			
													* TOTALS	
Brain	+	+	+	+	+	+	+	+	+	+				10
RESPIRATORY SYSTEM														
Lung	+	+	+	+	+	+	+	+	+	+				10
Hemorrhage		1			1									2 1.0
Metaplasia, Osseous					1									1 1.0
Mineral					1									1 1.0
Alveolus, Inflammation, Chronic Active					1									1 1.0
Subpleura, Inflammation, Chronic						1			1					2 1.0
Nose	+	+	+	+	+	+	+	+	+	+				10
Respiratory Epithelium, Hyperplasia	1				1									2 1.0
Trachea	+	+	+	+	+	+	+	+	+	+				10
SPECIAL SENSES SYSTEM														
Eye	+	+	+	+	+	+	+	+	+	+				10
Harderian Gland	+	+	+	+	+	+	+	+	+	+				10
URINARY SYSTEM														
Kidney	+	+	+	+	+	+	+	+	+	+				10
Renal Tubule, Casts Protein		1		1										2 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+				10

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Lab: IIT

HARLAN SPRAGUE DAWLEY RATS FEMALE 3W/kg(GSM)PreC	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	3	3	3	3	
		9	9	9	9	9	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	3	
		9	9	9	9	9	9	9	9	0	
		1	2	3	4	5	6	7	8	9	
											* TOTALS

ALIMENTARY SYSTEM

Liver											1
Hepatodiaphragmatic Nodule											1

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1			1		2	1	1			5 1.2
Bilateral, Inflammation, Chronic		1	1						1		3 1.0

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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HARLAN SPRAGUE DAWLEY RATS FEMALE 3W/kg(GSM)PreC	DAY ON TEST	0	0	0	0	0	0	0	0	0	* TOTALS
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	3	3	3	3	
		9	9	9	9	9	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	3	
		9	9	9	9	9	9	9	9	0	
		1	2	3	4	5	6	7	8	9	

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	-----------

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive	1			1	1			1			4 1.0

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HARLAN SPRAGUE DAWLEY RATS FEMALE 6W/kg(GSM)PreC	DAY ON TEST	0	0	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	0
		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
		9	9	9	9	9	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
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		1	2	3	4	5	6	7	8	9	0	0	0	0	0	0	0	0	0
* TOTALS																			

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy				1	1														2 1.0

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	9
Inflammation, Chronic			2			1	1	1	1										5 1.2
Bilateral, Inflammation, Chronic		2																	1 2.0

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

* .. 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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Lab: IIT

HARLAN SPRAGUE DAWLEY RATS FEMALE 6W/kg(GSM)PreC	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	3	3	3	3	
		9	9	9	9	9	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	
											* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
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RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive	1						1	1			3 1.0

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+ .. 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 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

HARLAN SPRAGUE DAWLEY RATS FEMALE 9W/kg(GSM)PreC	DAY ON TEST	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
		2	2	2	2	2	3	3	3	3	3	3	3	3
		9	9	9	9	9	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	4	4	4	4	4	4
		1	1	1	1	1	1	1	1	1	1	1	2	2
		1	2	3	4	5	6	7	8	9	0	0	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
Infiltration Cellular, Mononuclear Cell							1							1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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HARLAN SPRAGUE DAWLEY RATS FEMALE 9W/kg(GSM)PreC	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
	2	2	2	2	2	3	3	3	3	3	0
	9	9	9	9	9	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
	4	4	4	4	4	4	4	4	4	4	4
	1	1	1	1	1	1	1	1	1	2	2
	1	2	3	4	5	6	7	8	9	0	0
* TOTALS											

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Accessory Adrenal Cortical Nodule								X			1
Hypertrophy, Focal						1					1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Rathke's Cleft, Dilation	1	1		1						1	4 1.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Ectopic Thymus		X	X		X	X					4
Ultimobranchial Cyst								X			1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1	1	1				1	1		1	6 1.0

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	* TOTALS
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
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
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	10

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	10
Subpleura, Inflammation, Chronic	1		1	1	1				1	5 1.0
Nose	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	10
Retina, Dysplasia					2					1 2.0
Harderian Gland	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive		1		1	1	1				4 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	10

*** END OF REPORT ***

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