

**Experiment Number:** 20105 - 13

**Test Type:** 28-DAY

**Route:** Whole Body Exposure

**Species/Strain:** RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

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 25020 NATD

**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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Harlan Sprague Dawley RATS MALE

0W/kg(GSM)PreC

3W/kg(GSM)PreC

6W/kg(GSM)PreC

9W/kg(GSM)PreC

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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>
<b>Early Deaths</b>				
<b>Natural Death</b>			<b>1</b>	
<b>Survivors</b>				
<b>Terminal Sacrifice</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>

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**ALIMENTARY SYSTEM**

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(10)
Extramedullary Hematopoiesis	1 (10%)			3 (30%)
Infiltration Cellular, Mononuclear Cell				1 (10%)
Inflammation, Focal	4 (40%)			
Pancreas	(10)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)

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**CARDIOVASCULAR SYSTEM**

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(10)	(10)	(10)
Cardiomyopathy	1 (10%)		1 (10%)	1 (10%)

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**ENDOCRINE SYSTEM**

a - Number of animals examined microscopically at site and number of animals with lesion

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Harlan Sprague Dawley RATS MALE	0W/kg(GSM)PreC	3W/kg(GSM)PreC	6W/kg(GSM)PreC	9W/kg(GSM)PreC
Adrenal Cortex	(10)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)			1 (10%)
Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(7)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(9)
Pars Distalis, Cyst	2 (20%)			1 (11%)
Rathke's Cleft, Dilation	8 (80%)			5 (56%)
Thyroid Gland	(10)	(0)	(0)	(10)
Ectopic Thymus	1 (10%)			1 (10%)
Ultimobranchial Cyst	2 (20%)			

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GENERAL BODY SYSTEM

None

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GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(10)
Preputial Gland	(10)	(10)	(10)	(10)
Inflammation, Chronic	4 (40%)	4 (40%)	3 (30%)	3 (30%)
Bilateral, Inflammation, Chronic		1 (10%)	1 (10%)	
Prostate	(10)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(10)
Testes	(10)	(1)	(0)	(10)
Germinal Epithelium, Left, Degeneration		1 (100%)		

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HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Hemorrhage	2 (20%)			2 (20%)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Hemorrhage				1 (10%)

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Harlan Sprague Dawley RATS MALE	0W/kg(GSM)PreC	3W/kg(GSM)PreC	6W/kg(GSM)PreC	9W/kg(GSM)PreC
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(10)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(10)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>				
Brain	(10)	(10)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>				
Lung	(10)	(0)	(0)	(10)
Hemorrhage	1 (10%)			1 (10%)
Inflammation	1 (10%)			
Alveolus, Infiltration Cellular, Histiocyte				1 (10%)
Perivascular, Infiltration Cellular, Eosinophil	1 (10%)			
Nose	(10)	(0)	(0)	(10)
Glands, Respiratory Epithelium, Cyst	1 (10%)			
Respiratory Epithelium, Hyperplasia	2 (20%)			1 (10%)
Trachea	(10)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(10)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(10)

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3W/kg(GSM)PreC

6W/kg(GSM)PreC

9W/kg(GSM)PreC

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URINARY SYSTEM

Kidney	(10)	(10)	(10)	(10)
Nephropathy, Chronic Progressive	3 (30%)	4 (40%)	1 (10%)	4 (40%)
Interstitial, Infiltration Cellular			2 (20%)	
Pelvis, Dilation	1 (10%)		1 (10%)	
Renal Tubule, Casts Protein	1 (10%)	2 (20%)		
Urinary Bladder	(10)	(0)	(0)	(10)

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\*\*\* END OF MALE \*\*\*

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3W/kg(GSM)PreC

6W/kg(GSM)PreC

9W/kg(GSM)PreC

Disposition Summary

Animals Initially In Study	30	30	30	30
Early Deaths				
Survivors				
Terminal Sacrifice	10	10	10	10
Animals Examined Microscopically	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(1)	(0)	(10)
Extramedullary Hematopoiesis	1 (10%)			
Hepatodiaphragmatic Nodule	1 (10%)	1 (100%)		
Infiltration Cellular, Mononuclear Cell				1 (10%)
Inflammation, Focal	4 (40%)			
Pancreas	(10)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(10)	(10)	(10)
Cardiomyopathy			2 (20%)	

ENDOCRINE SYSTEM

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Adrenal Cortex	(10)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	4 (40%)			1 (10%)
Hypertrophy, Focal				1 (10%)
Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(10)
Rathke's Cleft, Dilation	6 (60%)			4 (40%)
Thyroid Gland	(10)	(0)	(0)	(10)
Ectopic Thymus	5 (50%)			4 (40%)
Ultimobranchial Cyst	3 (30%)			1 (10%)

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GENERAL BODY SYSTEM

None

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GENITAL SYSTEM

Clitoral Gland	(10)	(10)	(9)	(10)
Inflammation, Chronic	5 (50%)	5 (50%)	5 (56%)	6 (60%)
Bilateral, Inflammation, Chronic	1 (10%)	3 (30%)	1 (11%)	
Ovary	(10)	(0)	(0)	(10)
Mineral	1 (10%)			
Uterus	(10)	(0)	(0)	(10)

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HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)

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<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(10)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(10)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>				
Brain	(10)	(10)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>				
Lung	(10)	(0)	(0)	(10)
Hemorrhage	2 (20%)			
Metaplasia, Osseous	1 (10%)			
Mineral	1 (10%)			
Alveolus, Inflammation, Chronic Active	1 (10%)			
Subpleura, Inflammation, Chronic	2 (20%)			5 (50%)
Nose	(10)	(0)	(0)	(10)
Respiratory Epithelium, Hyperplasia	2 (20%)			
Trachea	(10)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(10)	(0)	(0)	(10)
Retina, Dysplasia				1 (10%)
Harderian Gland	(10)	(0)	(0)	(10)

URINARY SYSTEM

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Kidney	(10)	(10)	(10)	(10)
Nephropathy, Chronic Progressive		4 (40%)	3 (30%)	4 (40%)
Renal Tubule, Casts Protein	2 (20%)			
Urinary Bladder	(10)	(0)	(0)	(10)

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\*\*\* END OF REPORT \*\*\*

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