

Experiment Number: 20105 - 14

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: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 08/16/2017

Time Report Requested: 11:38:27

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

Lab: IIT

Final1_ Rats (CDMA)

NTP Study Number: C20105B
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

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Harlan Sprague Dawley RATS MALE

0W/kg(CDMA)PreC

3W/kg(CDMA)PreC

6W/kg(CDMA)PreC

9W/kg(CDMA)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)	(0)	(0)	(10)
Extramedullary Hematopoiesis	1 (10%)			1 (10%)
Inflammation, Focal	4 (40%)			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)
Erosion				1 (10%)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(10)
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Accessory Adrenal Cortical Nodule	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)	(10)
Pars Distalis, Cyst	2 (20%)			
Rathke's Cleft, Dilation	8 (80%)			5 (50%)
Thyroid Gland	(10)	(0)	(0)	(10)
Ectopic Thymus	1 (10%)			1 (10%)
Ultimobranchial Cyst	2 (20%)			

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell				2 (20%)
Preputial Gland	(10)	(10)	(10)	(10)
Inflammation, Chronic	4 (40%)	4 (40%)	3 (30%)	8 (80%)
Bilateral, Inflammation, Chronic		3 (30%)	3 (30%)	1 (10%)
Prostate	(10)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

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

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Harlan Sprague Dawley RATS MALE	0W/kg(CDMA)PreC	3W/kg(CDMA)PreC	6W/kg(CDMA)PreC	9W/kg(CDMA)PreC
Congestion			1 (100%)	
<hr/>				
INTEGUMENTARY SYSTEM				
Mammary Gland	(10)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(10)
<hr/>				
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(0)	(0)	(10)
<hr/>				
NERVOUS SYSTEM				
Brain	(10)	(10)	(10)	(10)
<hr/>				
RESPIRATORY SYSTEM				
Lung	(10)	(0)	(0)	(10)
Hemorrhage	1 (10%)			
Inflammation	1 (10%)			
Perivascular, Infiltration Cellular, Eosinophil	1 (10%)			1 (10%)
Nose	(10)	(0)	(0)	(10)
Glands, Respiratory Epithelium, Cyst	1 (10%)			
Olfactory Epithelium, Cyst				1 (10%)
Respiratory Epithelium, Hyperplasia	2 (20%)			2 (20%)
Trachea	(10)	(0)	(0)	(10)
<hr/>				
SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(10)

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3W/kg(CDMA)PreC

6W/kg(CDMA)PreC

9W/kg(CDMA)PreC

URINARY SYSTEM

Kidney	(10)	(10)	(10)	(10)
Nephropathy, Chronic Progressive	3 (30%)	6 (60%)	4 (40%)	2 (20%)
Pelvis, Dilation	1 (10%)			
Renal Tubule, Casts Protein	1 (10%)	1 (10%)		2 (20%)
Renal Tubule, Degeneration				1 (10%)
Urinary Bladder	(10)	(0)	(0)	(10)

*** END OF MALE ***

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Harlan Sprague Dawley RATS FEMALE

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6W/kg(CDMA)PreC

9W/kg(CDMA)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)	(0)	(0)	(10)
Extramedullary Hematopoiesis	1 (10%)			
Hepatodiaphragmatic Nodule	1 (10%)			
Inflammation, Focal	4 (40%)			7 (70%)
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)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	4 (40%)			

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Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(10)
Pars Distalis, Cyst				1 (10%)
Rathke's Cleft, Dilation	6 (60%)			2 (20%)
Thyroid Gland	(10)	(0)	(0)	(10)
Ectopic Thymus	5 (50%)			
Ultimobranchial Cyst	3 (30%)			

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(10)	(10)	(10)	(10)
Inflammation, Chronic	5 (50%)	6 (60%)	7 (70%)	4 (40%)
Bilateral, Inflammation, Chronic	1 (10%)	1 (10%)	3 (30%)	5 (50%)
Ovary	(10)	(0)	(0)	(10)
Hemorrhage				1 (10%)
Mineral	1 (10%)			
Uterus	(10)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Hemorrhage				1 (10%)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(1)	(10)
Hemorrhage			1 (100%)	

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INTEGUMENTARY SYSTEM				
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Skin	(10)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(0)	(0)	(10)
NERVOUS SYSTEM				
Brain	(10)	(10)	(10)	(10)
RESPIRATORY SYSTEM				
Lung	(10)	(0)	(0)	(10)
Congestion				1 (10%)
Hemorrhage	2 (20%)			
Metaplasia, Osseous	1 (10%)			
Mineral	1 (10%)			
Alveolus, Inflammation, Chronic Active	1 (10%)			
Perivascular, Infiltration Cellular, Eosinophil				3 (30%)
Subpleura, Inflammation, Chronic	2 (20%)			5 (50%)
Nose	(10)	(0)	(0)	(10)
Respiratory Epithelium, Hyperplasia	2 (20%)			
Trachea	(10)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Retina, Dysplasia				1 (10%)
Harderian Gland	(10)	(0)	(0)	(10)

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Nephropathy, Chronic Progressive		2 (20%)	4 (40%)	3 (30%)
Renal Tubule, Casts Protein	2 (20%)			
Renal Tubule, Degeneration				1 (10%)
Urinary Bladder	(10)	(0)	(0)	(10)

*** END OF REPORT ***

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