

Experiment Number: 20105 - 75

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 08/24/2017

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

Final 1 CDMA Mice Core Study

NTP Study Number:	C20105B		
Lock Date:	04/07/2016		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC		
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.2.4_cartox		
PWG Approval Date:	NONE		

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Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
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Disposition Summary

Animals Initially In Study	105	106	105	105
Early Deaths				
Accidentally Killed			1	
Moribund Sacrifice	8	2	5	3
Natural Death	16	6	13	16
Survivors				
Terminal Sacrifice	66	83	71	71
Animals Examined Microscopically	90	91	90	90

ALIMENTARY SYSTEM

Esophagus	(88)	(91)	(89)	(88)
Infiltration Cellular, Lymphocyte		1 [1.0]		
Gallbladder	(73)	(80)	(75)	(76)
Cyst			1	
Intestine Large, Cecum	(81)	(87)	(81)	(80)
Intestine Large, Colon	(84)	(88)	(84)	(81)
Intestine Large, Rectum	(84)	(89)	(85)	(85)
Intestine Small, Duodenum	(77)	(86)	(81)	(80)
Peyer's Patch, Hyperplasia, Lymphoid				1 [3.0]
Intestine Small, Ileum	(81)	(88)	(83)	(81)
Peyer's Patch, Hyperplasia, Lymphoid	1 [3.0]	1 [2.0]	1 [3.0]	3 [2.3]
Peyer's Patch, Infiltration Cellular, Plasma Cell	1 [2.0]			
Intestine Small, Jejunum	(79)	(87)	(81)	(82)
Inflammation, Granulomatous	1 [2.0]			
Epithelium, Cyst	1			
Peyer's Patch, Hyperplasia, Lymphoid		1 [2.0]	2 [4.0]	3 [2.7]
Peyer's Patch, Infiltration Cellular, Polymorphonuclear		1 [3.0]		
Serosa, Inflammation, Granulomatous			1 [2.0]	
Liver	(90)	(89)	(90)	(90)
Angiectasis			1 [3.0]	
Basophilic Focus	1	2	3	2
Clear Cell Focus	28	49	35	31

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Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Congestion, Chronic		1 [4.0]		
Eosinophilic Focus	4	5	2	5
Extramedullary Hematopoiesis	2 [1.5]		1 [2.0]	2 [2.0]
Fatty Change	37 [1.8]	51 [2.1]	26 [2.0]	33 [2.3]
Fibrosis	1 [2.0]			
Hemorrhage	1 [3.0]			
Infiltration Cellular, Lymphocyte	2 [1.5]		1 [1.0]	3 [1.7]
Infiltration Cellular, Mixed Cell	1 [1.0]	1 [1.0]		
Infiltration Cellular, Polymorphonuclear				1 [3.0]
Inflammation, Focal	1 [1.0]	1 [1.0]		1 [1.0]
Inflammation, Chronic Active	2 [1.5]		1 [2.0]	
Metaplasia				1 [1.0]
Mineral				1 [3.0]
Mixed Cell Focus	2	2	3	1
Necrosis	6 [2.2]	2 [2.0]	9 [1.9]	10 [2.2]
Bile Duct, Cyst				1
Capsule, Fibrosis		1 [3.0]		1 [2.0]
Hepatocyte, Degeneration			1 [3.0]	
Vein, Inflammation, Chronic Active		1 [3.0]		
Mesentery	(12)	(9)	(18)	(16)
Artery, Inflammation, Chronic Active		1 [3.0]		1 [3.0]
Artery, Thrombus				1 [3.0]
Fat, Inflammation, Granulomatous			1 [2.0]	1 [2.0]
Fat, Necrosis	8 [2.3]	8 [2.5]	14 [2.8]	12 [2.8]
Pancreas	(87)	(88)	(88)	(88)
Hemorrhage	1 [3.0]			
Infiltration Cellular, Lymphocyte	3 [1.0]	2 [1.5]	2 [2.0]	4 [1.0]
Inflammation, Granulomatous	1 [3.0]			
Artery, Inflammation, Chronic		1 [2.0]		
Duct, Cyst	1			1
Duct, Fibrosis	1 [2.0]			
Salivary Glands	(90)	(90)	(89)	(90)
Infiltration Cellular, Lymphocyte	58 [1.6]	67 [1.6]	68 [1.4]	61 [1.4]
Stomach, Forestomach	(88)	(89)	(86)	(87)
Cyst, Squamous		1		3
Inflammation, Acute			1 [2.0]	

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Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Ulcer				1 [3.0]
Epithelium, Hyperplasia, Focal	3 [2.0]		3 [2.3]	
Epithelium, Hyperplasia, Diffuse				1 [2.0]
Stomach, Glandular	(87)	(88)	(87)	(87)
Hemorrhage	1 [2.0]			
Mineral			2 [1.0]	
Epithelium, Hyperplasia, Focal	1 [2.0]			
Tooth	(27)	(15)	(17)	(23)
Dysplasia	26 [2.6]	15 [2.4]	16 [2.5]	22 [2.4]
Inflammation, Suppurative	2 [2.5]	1 [3.0]		
Inflammation, Chronic Active			1 [3.0]	2 [3.0]

CARDIOVASCULAR SYSTEM

Aorta	(89)	(88)	(90)	(89)
Inflammation, Chronic		1 [3.0]		
Blood Vessel	(1)	(1)	(0)	(0)
Inflammation, Chronic	1 [3.0]	1 [3.0]		
Heart	(90)	(91)	(90)	(90)
Bacteria	1		1	
Cardiomyopathy	10 [1.2]	6 [1.0]	6 [1.7]	10 [1.1]
Inflammation, Acute	1 [2.0]		1 [2.0]	1 [2.0]
Inflammation, Chronic Active	2 [1.5]		1 [2.0]	
Mineral				1 [1.0]
Thrombus	1 [4.0]	1 [4.0]	1 [3.0]	
Artery, Inflammation, Chronic Active	1 [2.0]	3 [3.0]	1 [3.0]	
Endocardium, Mineral	1 [2.0]			
Endothelium, Hyperplasia		2 [1.0]		1 [2.0]
Epicardium, Inflammation, Chronic	1 [2.0]			
Epicardium, Mineral	1 [2.0]			
Intima, Vein, Hyperplasia		2 [2.0]		
Myocardium, Infiltration Cellular, Lymphocyte		2 [1.5]		2 [1.0]
Myocardium, Inflammation, Chronic Active		1 [1.0]		
Myocardium, Mineral	2 [1.5]	2 [2.0]		1 [1.0]
Myocardium, Necrosis	1 [2.0]		1 [1.0]	

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Valve, Inflammation, Chronic Active		1 [1.0]		
Vein, Inflammation, Chronic Active		1 [3.0]		

ENDOCRINE SYSTEM

Adrenal Cortex	(90)	(89)	(90)	(89)
Accessory Adrenal Cortical Nodule	1			
Angiectasis	1 [3.0]			
Hemorrhage		1 [2.0]		
Hyperplasia, Focal	3 [2.3]	3 [2.3]	3 [2.7]	1 [3.0]
Hypertrophy, Focal	2 [1.5]	8 [1.8]		3 [1.7]
Vacuolization Cytoplasmic, Focal		1 [2.0]		
Bilateral, Hyperplasia, Focal			1 [2.0]	
Bilateral, Hypertrophy, Focal	1 [2.0]	1 [3.0]		1 [2.0]
Subcapsular, Hyperplasia	69 [1.7]	73 [1.8]	74 [1.7]	66 [1.6]
Adrenal Medulla	(90)	(89)	(88)	(89)
Hyperplasia		1 [3.0]		
Islets, Pancreatic	(88)	(90)	(89)	(89)
Hyperplasia	18 [2.3]	13 [2.3]	14 [2.1]	11 [2.3]
Infiltration Cellular, Lymphocyte	2 [1.5]	1 [2.0]		4 [1.3]
Parathyroid Gland	(68)	(57)	(66)	(65)
Cyst		1		1
Pituitary Gland	(86)	(84)	(89)	(83)
Pars Distalis, Angiectasis	1 [2.0]			
Pars Distalis, Cyst	3	1	1	2
Pars Distalis, Hyperplasia, Focal	1 [2.0]			
Thyroid Gland	(89)	(89)	(88)	(87)
Infiltration Cellular, Lymphocyte		1 [2.0]	1 [1.0]	
Arteriole, Inflammation, Chronic Active		1 [4.0]		
Epithelium, Follicle, Hyperplasia, Focal		1 [2.0]		

GENERAL BODY SYSTEM

Peritoneum	(1)	(0)	(0)	(0)
Tissue NOS	(0)	(1)	(0)	(0)

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GENITAL SYSTEM				
Coagulating Gland	(2)	(3)	(0)	(1)
Cyst	2	3		1
Infiltration Cellular, Lymphocyte		1 [2.0]		
Inflammation, Chronic		1 [3.0]		
Epididymis	(90)	(91)	(90)	(90)
Granuloma Sperm	1 [3.0]		2 [2.0]	
Infiltration Cellular, Lymphocyte	29 [1.1]	26 [1.2]	26 [1.1]	32 [1.1]
Infiltration Cellular, Mononuclear Cell		1 [2.0]		
Artery, Inflammation, Chronic		1 [3.0]	1 [3.0]	
Preputial Gland	(89)	(89)	(89)	(89)
Atrophy		1 [3.0]		
Infiltration Cellular, Lymphocyte	43 [1.6]	40 [1.5]	39 [1.6]	38 [1.3]
Inflammation, Suppurative	1 [3.0]			
Inflammation, Chronic Active	1 [2.0]	3 [3.3]	3 [3.7]	1 [3.0]
Bilateral, Inflammation, Chronic Active				1 [2.0]
Bilateral, Duct, Dilation	6 [2.2]	4 [2.5]	5 [2.4]	3 [2.7]
Duct, Dilation	10 [3.0]	10 [2.4]	5 [2.6]	5 [2.8]
Duct, Inflammation, Chronic Active				1 [2.0]
Duct, Necrosis	1 [2.0]			
Prostate	(90)	(86)	(90)	(88)
Infiltration Cellular, Lymphocyte	4 [1.3]	8 [1.0]	10 [1.2]	9 [1.0]
Inflammation, Acute			1 [2.0]	
Inflammation, Chronic Active	1 [3.0]			
Arteriole, Inflammation, Chronic		1 [3.0]		
Seminal Vesicle	(90)	(90)	(90)	(90)
Dilation	4 [2.8]	9 [2.0]	4 [2.0]	2 [2.0]
Inflammation, Chronic Active	1 [2.0]			1 [2.0]
Bilateral, Dilation	27 [2.4]	19 [2.4]	26 [2.3]	14 [2.2]
Testis	(90)	(91)	(88)	(90)
Bilateral, Germinal Epithelium, Atrophy			1 [3.0]	
Germ Cell, Degeneration	2 [1.0]	2 [2.0]	4 [2.0]	7 [1.6]
Seminiferous Tubule, Necrosis				1 [3.0]

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Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
HEMATOPOIETIC SYSTEM				
Bone Marrow	(90)	(90)	(90)	(90)
Hypercellularity	3 [2.7]		2 [2.5]	3 [2.7]
Myeloid Cell, Hypercellularity			1 [3.0]	
Lymph Node	(6)	(6)	(11)	(10)
Bronchial, Hyperplasia, Lymphoid				2 [2.0]
Iliac, Erythrophagocytosis		1 [2.0]		
Iliac, Hemorrhage			1 [1.0]	
Iliac, Hyperplasia, Lymphoid		2 [2.5]	4 [2.0]	
Iliac, Infiltration Cellular, Histiocyte				1 [2.0]
Iliac, Pigment			2 [2.0]	1 [2.0]
Inguinal, Hyperplasia, Lymphoid				2 [2.5]
Mediastinal, Hyperplasia, Lymphoid		2 [2.5]	1 [2.0]	2 [1.5]
Renal, Hemorrhage	1 [3.0]			
Renal, Pigment			1 [2.0]	
Lymph Node, Mandibular	(72)	(70)	(63)	(64)
Hemorrhage			1 [1.0]	1 [2.0]
Hyperplasia, Lymphoid	2 [1.0]		1 [2.0]	2 [1.5]
Infiltration Cellular, Histiocyte	1 [1.0]	1 [3.0]	1 [3.0]	2 [2.5]
Infiltration Cellular, Plasma Cell		1 [3.0]		
Lymph Node, Mesenteric	(85)	(88)	(86)	(85)
Erythrophagocytosis	1 [3.0]	1 [2.0]	1 [2.0]	1 [2.0]
Hemorrhage	10 [1.8]	21 [1.5]	16 [1.8]	14 [2.0]
Hyperplasia, Lymphoid	4 [2.5]	3 [2.3]	5 [1.8]	6 [2.5]
Infiltration Cellular, Histiocyte	8 [2.4]	7 [2.0]	5 [2.4]	5 [2.2]
Infiltration Cellular, Mixed Cell			1 [2.0]	
Infiltration Cellular, Plasma Cell	1 [3.0]		1 [3.0]	
Spleen	(87)	(89)	(87)	(86)
Extramedullary Hematopoiesis	15 [2.2]	7 [2.3]	21 [2.3]	16 [2.2]
Hyperplasia, Lymphoid	5 [2.2]	4 [2.3]	3 [2.3]	9 [2.4]
Thymus	(75)	(76)	(80)	(81)
Atrophy	11 [3.3]	3 [3.3]	8 [3.0]	5 [3.8]
Cyst	11	17	19	19

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Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Hemorrhage	1 [3.0]			1 [1.0]
Hyperplasia, Lymphoid		2 [3.0]		

INTEGUMENTARY SYSTEM

Mammary Gland	(2)	(1)	(0)	(3)
Skin	(90)	(91)	(90)	(90)
Infiltration Cellular, Mixed Cell Inflammation, Chronic	1 [1.0]			1 [3.0]
Ulcer	2 [3.0]	1 [4.0]	2 [3.5]	4 [3.3]
Epidermis, Hyperplasia, Focal			1 [3.0]	2 [2.0]

MUSCULOSKELETAL SYSTEM

Bone	(90)	(91)	(90)	(90)
Fibro-Osseous Lesion			1 [3.0]	
Increased Bone				1 [2.0]
Skeletal Muscle	(90)	(91)	(90)	(90)
Degeneration	1 [2.0]	1 [1.0]		
Infiltration Cellular, Lymphocyte	3 [1.3]	1 [1.0]	1 [1.0]	4 [1.3]
Inflammation, Granulomatous				1 [3.0]
Inflammation, Acute			1 [2.0]	

NERVOUS SYSTEM

Brain	(90)	(91)	(90)	(90)
Hemorrhage	2 [2.0]			
Infiltration Cellular, Lymphocyte	1 [2.0]			
Mineral	79 [1.5]	80 [1.6]	77 [1.6]	77 [1.5]
Necrosis		1 [2.0]		
Artery, Meninges, Inflammation, Chronic Active	1 [2.0]	2 [1.0]	3 [1.3]	1 [1.0]
Meninges, Inflammation, Chronic			1 [1.0]	
Brain Trigeminal Ganglion	(69)	(79)	(80)	(80)
Nerve Trigeminal	(67)	(57)	(43)	(55)

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Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Peripheral Nerve, Sciatic Inflammation, Chronic Active Axon, Degeneration	(89) 9 [1.1]	(91) 5 [1.2]	(87) 4 [1.3]	(88) 1 [2.0] 11 [1.4]
Spinal Cord Degeneration Necrosis Squamous Cyst Artery, Meninges, Inflammation, Chronic Active	(90) 1 [1.0] 1 [1.0] 1 [1.0]	(91) 1 [2.0] 1 [1.0] 2 [1.0]	(90) 1 [2.0] 4 [1.0]	(90) 2 1 [1.0]

RESPIRATORY SYSTEM

Lung	(90)	(91)	(90)	(90)
Congestion	2 [2.5]		3 [2.7]	2 [2.5]
Hemorrhage	3 [2.0]	2 [2.0]	4 [1.5]	1 [1.0]
Infiltration Cellular, Histiocyte	6 [2.0]	5 [2.2]	3 [2.0]	5 [2.8]
Infiltration Cellular, Lymphocyte	1 [2.0]	1 [2.0]	3 [2.0]	
Infiltration Cellular, Mononuclear Cell			1 [1.0]	3 [2.7]
Inflammation, Granulomatous				1 [2.0]
Alveolar Epithelium, Hyperplasia, Focal	6 [1.8]	7 [1.9]	8 [1.8]	5 [1.8]
Bronchiole, Foreign Body	1			
Bronchiole, Inflammation, Suppurative	1 [2.0]			
Nose	(90)	(91)	(90)	(90)
Infiltration Cellular, Lymphocyte			1 [2.0]	
Inflammation, Acute	1 [2.0]			
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 [2.0]			1 [2.0]
Respiratory Epithelium, Hyperplasia	5 [1.8]	1 [3.0]		
Vomeronasal Organ, Fibrosis	1 [2.0]			
Trachea	(90)	(90)	(90)	(89)

SPECIAL SENSES SYSTEM

Eye	(90)	(91)	(89)	(90)
Atrophy			1 [4.0]	1 [4.0]
Bilateral, Cornea, Inflammation, Chronic Active				1 [3.0]

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Bilateral, Iris, Synechia				1 [4.0]
Cornea, Edema		1 [2.0]		
Cornea, Fibrosis	1 [3.0]			
Cornea, Hyperplasia, Squamous, Diffuse		1 [3.0]		
Sclera, Inflammation, Acute			1 [3.0]	
Harderian Gland	(88)	(91)	(90)	(88)
Hemorrhage	1 [2.0]			
Hyperplasia, Focal	2 [2.0]	3 [2.7]	1 [2.0]	
Infiltration Cellular, Lymphocyte	36 [1.3]	41 [1.2]	40 [1.3]	38 [1.2]
Mineral		1 [3.0]		

URINARY SYSTEM

Kidney	(90)	(89)	(90)	(90)
Infarct	7 [2.0]	6 [1.5]	11 [1.5]	7 [2.1]
Inflammation, Suppurative	1 [3.0]			
Inflammation, Granulomatous	1 [2.0]			
Metaplasia, Osseous	3	8	3	5
Mineral		3 [1.3]	1 [1.0]	1 [2.0]
Nephropathy, Chronic Progressive	74 [1.4]	84 [1.2]	81 [1.1]	77 [1.2]
Artery, Inflammation, Chronic Active		1 [3.0]		
Bilateral, Bacteria			1	
Bilateral, Infarct		1 [2.0]		2 [3.0]
Bilateral, Inflammation, Acute			1 [3.0]	
Bilateral, Renal Tubule, Pigment				1 [2.0]
Glomerulus, Cyst	1	2		1
Interstitium, Infiltration Cellular, Lymphocyte	41 [1.6]	55 [1.5]	57 [1.4]	40 [1.4]
Interstitium, Inflammation, Acute				1 [1.0]
Papilla, Bacteria			1 [2.0]	
Papilla, Inflammation, Acute			1 [2.0]	
Pelvis, Dilation	1 [3.0]			2 [2.5]
Pelvis, Inflammation, Acute				1 [2.0]
Renal Tubule, Cyst	8	11	7	10
Renal Tubule, Hyperplasia, Focal		1 [1.0]		
Renal Tubule, Mineral	1 [2.0]	4 [1.0]	4 [1.0]	5 [1.0]

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Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Urothelium, Inflammation, Chronic Active	1 [1.0]			
Ureter	(0)	(0)	(1)	(0)
Inflammation, Chronic Active			1 [3.0]	
Urinary Bladder	(87)	(90)	(90)	(89)
Hemorrhage	3 [2.0]			
Infiltration Cellular, Lymphocyte	26 [1.3]	33 [1.1]	39 [1.2]	41 [1.1]

*** END OF MALE ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
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Disposition Summary

Animals Initially In Study	105	104	105	105
Early Deaths				
Moribund Sacrifice	9	5	4	4
Natural Death	14	9	16	14
Survivors				
Natural Death	1	3	1	1
Terminal Sacrifice	66	72	69	71
Animals Examined Microscopically	90	89	90	90

ALIMENTARY SYSTEM

Esophagus	(87)	(88)	(87)	(87)
Gallbladder	(79)	(75)	(72)	(73)
Cyst			1	
Infiltration Cellular, Lymphocyte Epithelium, Hyperplasia, Diffuse	2 [2.0]	4 [1.8]	2 [1.0] 1 [2.0]	3 [1.3]
Intestine Large, Cecum	(84)	(82)	(80)	(81)
Intestine Large, Colon	(84)	(85)	(85)	(86)
Intestine Large, Rectum	(88)	(86)	(84)	(88)
Intestine Small, Duodenum	(82)	(81)	(80)	(77)
Inflammation, Acute	1 [2.0]			
Intestine Small, Ileum	(83)	(82)	(76)	(81)
Inflammation, Suppurative		1 [4.0]		
Peyer's Patch, Hyperplasia, Lymphoid		2 [3.0]		
Intestine Small, Jejunum	(84)	(81)	(80)	(77)
Peyer's Patch, Hyperplasia, Lymphoid	1 [2.0]	2 [3.5]		
Liver	(89)	(88)	(90)	(90)
Angiectasis				1 [3.0]
Basophilic Focus	4	4	3	1
Clear Cell Focus	1			
Eosinophilic Focus	2		2	2
Extramedullary Hematopoiesis	1 [1.0]	2 [1.0]		2 [2.5]
Fatty Change	7 [2.1]	1 [1.0]	2 [2.5]	9 [2.2]
Hemorrhage	1 [2.0]		1 [2.0]	1 [2.0]

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Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Infiltration Cellular, Lymphocyte	33 [1.3]	22 [1.4]	26 [1.3]	24 [1.4]
Infiltration Cellular, Mononuclear Cell	1 [2.0]			
Inflammation, Focal	4 [1.3]	2 [2.0]		
Inflammation, Chronic Active	1 [2.0]			2 [2.5]
Mixed Cell Focus	5			
Necrosis	6 [2.8]	2 [1.5]	3 [2.7]	4 [1.5]
Centrilobular, Necrosis				1 [3.0]
Hepatocyte, Fatty Change, Focal	3 [1.3]		1 [2.0]	
Hepatocyte, Hypertrophy			1 [2.0]	
Kupffer Cell, Hyperplasia	1 [3.0]			
Oval Cell, Hyperplasia			1 [4.0]	
Mesentery	(29)	(24)	(34)	(24)
Artery, Inflammation, Chronic			1 [3.0]	
Fat, Infiltration Cellular, Lymphocyte	2 [3.0]		1 [2.0]	1 [2.0]
Fat, Inflammation, Chronic				2 [2.0]
Fat, Inflammation, Chronic Active	1 [2.0]			2 [2.5]
Fat, Mineral		1 [2.0]	2 [1.5]	
Fat, Necrosis	25 [2.6]	22 [2.6]	30 [2.6]	19 [2.4]
Pancreas	(87)	(86)	(85)	(84)
Infiltration Cellular, Lymphocyte	27 [1.4]	23 [1.1]	21 [1.4]	19 [1.5]
Inflammation, Chronic Active	1 [4.0]			
Necrosis		1 [3.0]		2 [2.0]
Acinus, Atrophy			1 [4.0]	2 [3.0]
Duct, Cyst	1		3	1
Salivary Glands	(89)	(88)	(87)	(89)
Atrophy	1 [2.0]			
Infiltration Cellular, Lymphocyte	59 [1.4]	61 [1.4]	54 [1.6]	60 [1.5]
Stomach, Forestomach	(86)	(88)	(87)	(87)
Cyst			1	
Epithelium, Hyperplasia, Focal			1 [2.0]	1 [2.0]
Stomach, Glandular	(85)	(88)	(85)	(83)
Cyst	3	2		
Infiltration Cellular, Lymphocyte			2 [2.0]	

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Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
CARDIOVASCULAR SYSTEM				
Aorta	(84)	(87)	(89)	(90)
Degeneration			1 [4.0]	
Inflammation, Acute			1 [3.0]	
Inflammation, Chronic Active	1 [3.0]			
Thrombus				1 [3.0]
Heart	(90)	(89)	(90)	(90)
Bacteria	1		1	2
Cardiomyopathy	3 [1.3]	4 [1.8]	4 [1.3]	6 [1.2]
Thrombus	3 [2.7]			2 [3.0]
Artery, Inflammation, Chronic Active		2 [1.5]	1 [2.0]	
Endothelium, Hyperplasia		1 [2.0]		
Epicardium, Infiltration Cellular, Mixed Cell	1 [2.0]			
Epicardium, Infiltration Cellular, Mononuclear Cell	1 [1.0]			
Myocardium, Fibrosis	1 [1.0]			1 [1.0]
Myocardium, Hemorrhage		1 [1.0]		
Myocardium, Inflammation, Acute				2 [2.5]
Myocardium, Inflammation, Chronic Active	1 [2.0]	1 [1.0]	2 [2.0]	
Myocardium, Mineral	4 [1.8]		1 [1.0]	2 [1.5]
Myocardium, Necrosis			1 [2.0]	
Valve, Hemorrhage	1 [2.0]			
Valve, Infiltration Cellular, Lymphocyte	1 [1.0]			
Valve, Thrombus	1 [3.0]		1 [3.0]	

ENDOCRINE SYSTEM

Adrenal Cortex	(84)	(88)	(87)	(88)
Accessory Adrenal Cortical Nodule			2 [2.0]	3 [1.7]
Angiectasis	1 [3.0]			
Hemorrhage	1 [2.0]		1 [2.0]	1 [1.0]
Hyperplasia, Focal		1 [4.0]		
Infiltration Cellular, Mixed Cell			1 [2.0]	
Mineral	1 [2.0]			

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Vacuolization Cytoplasmic		1 [2.0]		
Vacuolization Cytoplasmic, Focal				1 [1.0]
Bilateral, Extramedullary Hematopoiesis	1 [1.0]			
Bilateral, Infiltration Cellular, Mixed Cell			1 [2.0]	
Bilateral, Vacuolization Cytoplasmic		1 [2.0]		2 [2.5]
Subcapsular, Hyperplasia	81 [2.2]	84 [2.1]	84 [2.0]	86 [2.0]
Adrenal Medulla	(83)	(87)	(84)	(84)
Hemorrhage	2 [2.0]			
Hyperplasia		2 [2.0]	1 [1.0]	
Mineral	1 [2.0]			
Islets, Pancreatic	(87)	(88)	(89)	(87)
Hyperplasia	1 [2.0]		1 [2.0]	2 [2.5]
Infiltration Cellular, Lymphocyte	3 [1.3]	3 [1.7]	5 [1.6]	1 [1.0]
Parathyroid Gland	(60)	(59)	(65)	(68)
Cyst	1			
Infiltration Cellular, Lymphocyte		1 [3.0]		1 [3.0]
Pituitary Gland	(80)	(79)	(88)	(86)
Pars Distalis, Angiectasis	2 [2.0]	9 [2.2]	4 [2.5]	2 [1.5]
Pars Distalis, Cyst	1	1	1	2
Pars Distalis, Hyperplasia, Focal	2 [3.0]	2 [1.5]	4 [2.0]	6 [2.0]
Thyroid Gland	(86)	(87)	(88)	(88)
Infiltration Cellular, Lymphocyte	1 [1.0]	1 [1.0]	7 [1.3]	5 [1.4]
Inflammation, Chronic Active		1 [3.0]		
Follicle, Cyst	1		2	3

GENERAL BODY SYSTEM

Tissue NOS	(1)	(1)	(1)	(0)
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GENITAL SYSTEM

Clitoral Gland	(82)	(82)	(81)	(82)
Infiltration Cellular, Lymphocyte	3 [1.0]			1 [1.0]
Inflammation, Granulomatous				1 [2.0]
Duct, Cyst	1	1		

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Test Type: CHRONIC

Cell Phone Radiation: CDMA

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Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Ovary	(75)	(84)	(84)	(83)
Angiectasis		3 [3.3]		
Cyst	9	11	7	4
Hemorrhage	1 [3.0]	1 [4.0]		
Infiltration Cellular, Histiocyte			1 [3.0]	
Inflammation, Granulomatous				1 [3.0]
Mineral	1 [2.0]		1 [2.0]	
Follicle, Cyst	9	7	6	8
Granulosa Cell, Hyperplasia				1 [3.0]
Paraovarian Tissue, Cyst		2		
Uterus	(89)	(89)	(88)	(90)
Adenomyosis			1 [3.0]	
Angiectasis	1 [3.0]	3 [3.7]	3 [2.7]	4 [3.0]
Dilation	35 [2.5]	21 [3.0]	44 [2.9]	37 [2.9]
Hemorrhage	1 [4.0]			
Infiltration Cellular, Lymphocyte				1 [2.0]
Inflammation, Chronic Active			1 [3.0]	
Mineral			1 [2.0]	
Necrosis			1 [3.0]	
Thrombus	1 [3.0]		3 [3.3]	1 [3.0]
Arteriole, Degeneration			1 [4.0]	
Endometrium, Cyst	3			2
Endometrium, Hyperplasia, Cystic	68 [2.5]	75 [2.5]	67 [2.5]	68 [2.2]
Endometrium, Metaplasia, Squamous	1 [3.0]			

HEMATOPOIETIC SYSTEM

Bone Marrow	(90)	(89)	(89)	(89)
Hypercellularity	7 [2.4]	8 [2.6]	3 [2.3]	4 [2.3]
Hypocellularity	1 [3.0]		1 [2.0]	
Myeloid Cell, Hypercellularity	1 [4.0]	1 [3.0]		
Lymph Node	(18)	(21)	(18)	(18)
Hemorrhage			1 [3.0]	
Hyperplasia, Lymphoid	1 [2.0]			
Infiltration Cellular, Mixed Cell				1 [3.0]

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b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

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Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Axillary, Infiltration Cellular, Mixed Cell	1 [2.0]			
Axillary, Pigment	1 [2.0]			
Bronchial, Hemorrhage			1 [2.0]	
Bronchial, Hyperplasia, Lymphoid	2 [2.0]	2 [3.0]		1 [2.0]
Bronchial, Infiltration Cellular, Histiocyte		1 [2.0]		
Bronchial, Infiltration Cellular, Mixed Cell		1 [3.0]		
Iliac, Hemorrhage	1 [3.0]		3 [3.7]	1 [4.0]
Iliac, Hyperplasia, Lymphoid	4 [2.5]	4 [1.8]	9 [2.2]	4 [1.8]
Iliac, Infiltration Cellular, Histiocyte		1 [3.0]	1 [2.0]	
Iliac, Infiltration Cellular, Mixed Cell	1 [2.0]	1 [3.0]	1 [2.0]	1 [3.0]
Iliac, Infiltration Cellular, Plasma Cell			1 [2.0]	
Iliac, Pigment		1 [1.0]	2 [1.5]	
Lumbar, Hemorrhage		1 [1.0]		
Lumbar, Hyperplasia, Lymphoid		2 [2.5]	1 [2.0]	
Lumbar, Infiltration Cellular, Mixed Cell	1 [2.0]			
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]	4 [1.8]	1 [1.0]	3 [2.0]
Mediastinal, Infiltration Cellular, Histiocyte				1 [2.0]
Pancreatic, Hyperplasia, Lymphoid	1 [3.0]			1 [4.0]
Renal, Ectasia		1 [4.0]		
Renal, Hemorrhage	1 [3.0]			
Renal, Hyperplasia, Lymphoid	3 [3.3]		2 [3.0]	2 [2.5]
Renal, Infiltration Cellular, Mixed Cell		1 [3.0]		
Lymph Node, Mandibular	(76)	(79)	(76)	(73)
Hemorrhage	3 [2.7]	1 [1.0]	1 [2.0]	2 [2.0]
Hyperplasia, Lymphoid	1 [2.0]	1 [3.0]	1 [2.0]	2 [2.5]
Infiltration Cellular, Histiocyte		1 [2.0]	1 [2.0]	
Infiltration Cellular, Mixed Cell	1 [2.0]			
Lymph Node, Mesenteric	(71)	(86)	(75)	(81)
Ectasia				1 [4.0]
Erythrophagocytosis	1 [2.0]			
Hemorrhage	1 [1.0]	3 [2.0]	6 [2.0]	3 [1.7]
Hyperplasia, Lymphoid	1 [3.0]	5 [2.2]	4 [2.5]	4 [3.0]
Infiltration Cellular, Histiocyte	3 [2.0]	4 [2.0]	2 [2.0]	4 [2.0]
Infiltration Cellular, Plasma Cell			1 [3.0]	
Spleen	(86)	(87)	(86)	(88)
Atrophy	1 [3.0]			

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Extramedullary Hematopoiesis	20 [2.5]	18 [2.9]	12 [2.2]	16 [2.3]
Hemorrhage		1 [3.0]		
Hyperplasia, Lymphoid	11 [2.2]	10 [2.1]	12 [1.9]	14 [2.6]
Capsule, Fibrosis	1 [3.0]		1 [3.0]	
Thymus	(85)	(83)	(82)	(82)
Atrophy	5 [3.6]	3 [2.3]	4 [2.5]	2 [3.5]
Cyst	2	4	4	6
Hemorrhage		2 [1.5]	1 [2.0]	2 [1.5]
Hyperplasia, Lymphoid	1 [2.0]		2 [3.0]	

INTEGUMENTARY SYSTEM

Mammary Gland	(85)	(87)	(90)	(88)
Hyperplasia, Focal	1 [3.0]		1 [2.0]	
Hyperplasia, Diffuse	1 [2.0]	1 [3.0]		
Infiltration Cellular, Lymphocyte		1 [2.0]		
Duct, Dilation	1 [3.0]	2 [2.0]	2 [2.0]	2 [2.0]
Skin	(90)	(89)	(90)	(90)
Ulcer	2 [3.5]	3 [2.7]	1 [4.0]	1 [1.0]
Epidermis, Hyperplasia, Focal		1 [2.0]		1 [3.0]
Hair Follicle, Atrophy	2 [3.0]	2 [3.5]		5 [3.2]
Subcutaneous Tissue, Fibrosis				1 [2.0]

MUSCULOSKELETAL SYSTEM

Bone	(90)	(89)	(90)	(89)
Fibro-Osseous Lesion	11 [2.1]		1 [2.0]	2 [2.5]
Increased Bone		1 [3.0]	1 [3.0]	
Skeletal Muscle	(89)	(89)	(90)	(90)
Degeneration		1 [2.0]		1 [2.0]
Infiltration Cellular, Lymphocyte	16 [1.1]	7 [1.3]	11 [1.4]	9 [1.3]
Mineral	1 [1.0]			

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Cell Phone Radiation: CDMA

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First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
NERVOUS SYSTEM				
Brain	(87)	(88)	(90)	(90)
Hemorrhage	2 [2.0]			2 [1.5]
Hydrocephalus	1 [2.0]			
Inflammation, Acute	1 [2.0]			
Mineral	80 [1.6]	81 [1.4]	78 [1.3]	74 [1.5]
Necrosis	1 [2.0]		1 [2.0]	
Artery, Meninges, Inflammation, Chronic Active		3 [2.0]	1 [3.0]	1 [2.0]
Brain Trigeminal Ganglion	(75)	(82)	(75)	(74)
Nerve Trigeminal	(56)	(30)	(52)	(51)
Peripheral Nerve, Sciatic	(88)	(88)	(89)	(88)
Axon, Degeneration	12 [1.2]	4 [1.3]	8 [2.1]	11 [1.6]
Spinal Cord	(90)	(89)	(90)	(90)
Cyst, Squamous, Multiple			1	1
Degeneration		1 [2.0]		
Demyelination		1 [2.0]		
Metaplasia, Osseous		1		
Necrosis		2 [3.0]		

RESPIRATORY SYSTEM

Lung	(90)	(89)	(90)	(90)
Congestion			2 [2.0]	4 [2.3]
Hemorrhage	4 [2.5]	7 [2.0]	4 [2.0]	4 [2.0]
Infiltration Cellular, Histiocyte	1 [3.0]	2 [2.0]	1 [3.0]	2 [3.0]
Infiltration Cellular, Lymphocyte	3 [2.0]	2 [2.0]	4 [2.0]	
Infiltration Cellular, Mixed Cell		1 [1.0]		
Infiltration Cellular, Mononuclear Cell		1 [2.0]		
Inflammation, Granulomatous		1 [1.0]		
Inflammation, Acute	1 [3.0]			
Inflammation, Chronic	1 [2.0]			
Inflammation, Chronic Active				1 [1.0]
Alveolar Epithelium, Hyperplasia, Focal	1 [2.0]	3 [2.0]	3 [1.7]	3 [1.3]
Mediastinum	(2)	(0)	(0)	(0)

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Nose	(89)	(89)	(90)	(90)
Inflammation, Acute	1 [3.0]			
Respiratory Epithelium, Accumulation, Hyaline Droplet			1 [2.0]	
Trachea	(90)	(87)	(89)	(88)

SPECIAL SENSES SYSTEM

Eye	(89)	(89)	(90)	(89)
Phthisis Bulbi				1
Anterior Chamber, Inflammation, Acute				1 [4.0]
Harderian Gland	(89)	(88)	(89)	(89)
Hyperplasia, Focal		1 [2.0]		
Infiltration Cellular, Lymphocyte	58 [1.2]	66 [1.2]	61 [1.1]	64 [1.1]

URINARY SYSTEM

Kidney	(89)	(89)	(88)	(87)
Cyst	1			
Infarct	14 [1.7]	26 [1.7]	23 [1.7]	17 [1.8]
Metaplasia, Osseous	2	1	2	2
Nephropathy, Chronic Progressive	8 [1.5]	12 [1.1]	7 [1.6]	7 [1.4]
Bilateral, Infarct	1 [3.0]			
Interstitial, Infiltration Cellular, Lymphocyte	63 [1.6]	65 [1.5]	50 [1.5]	50 [1.7]
Medulla, Mineral				1 [2.0]
Papilla, Mineral			2 [2.0]	
Papilla, Necrosis		1 [1.0]		
Pelvis, Dilation	1 [3.0]			
Renal Tubule, Cyst				1
Renal Tubule, Dilation	1 [1.0]		1 [2.0]	1 [1.0]
Renal Tubule, Mineral	1 [1.0]			
Renal Tubule, Vacuolization Cytoplasmic			1 [3.0]	
Urinary Bladder	(86)	(86)	(83)	(85)
Angiectasis			6 [2.0]	2 [2.0]
Infiltration Cellular, Lymphocyte	62 [1.8]	64 [1.6]	70 [1.8]	65 [1.7]

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 20105 - 75

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 08/24/2017

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:47:56

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

First Dose M/F: 06/18/12 / 06/18/12

Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE

0 W/kg

2.5 W/kg

5 W/kg

10 W/kg

Transitional Epithelium, Hyperplasia, Diffuse

1 [3.0]

*** END OF REPORT ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)