

Experiment Number: 20105 - 75

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 08/24/2017

Time Report Requested: 12:34:53

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

Lab: IIT

B6C3F1 MICE MALE

0 W/kg

2.5 W/kg

5 W/kg

10 W/kg

Disposition Summary

	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
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%)		
Gallbladder	(73)	(80)	(75)	(76)
Cyst			1 (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 (1%)
Intestine Small, Ileum	(81)	(88)	(83)	(81)
Peyer's Patch, Hyperplasia, Lymphoid	1 (1%)	1 (1%)	1 (1%)	3 (4%)
Peyer's Patch, Infiltration Cellular, Plasma Cell	1 (1%)			
Intestine Small, Jejunum	(79)	(87)	(81)	(82)
Inflammation, Granulomatous	1 (1%)			
Epithelium, Cyst	1 (1%)			
Peyer's Patch, Hyperplasia, Lymphoid		1 (1%)	2 (2%)	3 (4%)
Peyer's Patch, Infiltration Cellular, Polymorphonuclear		1 (1%)		
Serosa, Inflammation, Granulomatous			1 (1%)	
Liver	(90)	(89)	(90)	(90)
Angiectasis			1 (1%)	
Basophilic Focus	1 (1%)	2 (2%)	3 (3%)	2 (2%)
Clear Cell Focus	28 (31%)	49 (55%)	35 (39%)	31 (34%)

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Congestion, Chronic		1 (1%)		
Eosinophilic Focus	4 (4%)	5 (6%)	2 (2%)	5 (6%)
Extramedullary Hematopoiesis	2 (2%)		1 (1%)	2 (2%)
Fatty Change	37 (41%)	51 (57%)	26 (29%)	33 (37%)
Fibrosis	1 (1%)			
Hemorrhage	1 (1%)			
Infiltration Cellular, Lymphocyte	2 (2%)		1 (1%)	3 (3%)
Infiltration Cellular, Mixed Cell	1 (1%)	1 (1%)		
Infiltration Cellular, Polymorphonuclear				1 (1%)
Inflammation, Focal	1 (1%)	1 (1%)		1 (1%)
Inflammation, Chronic Active	2 (2%)		1 (1%)	
Metaplasia				1 (1%)
Mineral				1 (1%)
Mixed Cell Focus	2 (2%)	2 (2%)	3 (3%)	1 (1%)
Necrosis	6 (7%)	2 (2%)	9 (10%)	10 (11%)
Bile Duct, Cyst				1 (1%)
Capsule, Fibrosis		1 (1%)		1 (1%)
Hepatocyte, Degeneration			1 (1%)	
Vein, Inflammation, Chronic Active		1 (1%)		
Mesentery	(12)	(9)	(18)	(16)
Artery, Inflammation, Chronic Active		1 (11%)		1 (6%)
Artery, Thrombus				1 (6%)
Fat, Inflammation, Granulomatous			1 (6%)	1 (6%)
Fat, Necrosis	8 (67%)	8 (89%)	14 (78%)	12 (75%)
Pancreas	(87)	(88)	(88)	(88)
Hemorrhage	1 (1%)			
Infiltration Cellular, Lymphocyte	3 (3%)	2 (2%)	2 (2%)	4 (5%)
Inflammation, Granulomatous	1 (1%)			
Artery, Inflammation, Chronic		1 (1%)		
Duct, Cyst	1 (1%)			1 (1%)
Duct, Fibrosis	1 (1%)			
Salivary Glands	(90)	(90)	(89)	(90)
Infiltration Cellular, Lymphocyte	58 (64%)	67 (74%)	68 (76%)	61 (68%)
Stomach, Forestomach	(88)	(89)	(86)	(87)
Cyst, Squamous		1 (1%)		3 (3%)
Inflammation, Acute			1 (1%)	

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Ulcer				1 (1%)
Epithelium, Hyperplasia, Focal	3 (3%)		3 (3%)	
Epithelium, Hyperplasia, Diffuse				1 (1%)
Stomach, Glandular	(87)	(88)	(87)	(87)
Hemorrhage	1 (1%)			
Mineral			2 (2%)	
Epithelium, Hyperplasia, Focal	1 (1%)			
Tooth	(27)	(15)	(17)	(23)
Dysplasia	26 (96%)	15 (100%)	16 (94%)	22 (96%)
Inflammation, Suppurative	2 (7%)	1 (7%)		
Inflammation, Chronic Active			1 (6%)	2 (9%)

CARDIOVASCULAR SYSTEM

Aorta	(89)	(88)	(90)	(89)
Inflammation, Chronic		1 (1%)		
Blood Vessel	(1)	(1)	(0)	(0)
Inflammation, Chronic	1 (100%)	1 (100%)		
Heart	(90)	(91)	(90)	(90)
Bacteria	1 (1%)		1 (1%)	
Cardiomyopathy	10 (11%)	6 (7%)	6 (7%)	10 (11%)
Inflammation, Acute	1 (1%)		1 (1%)	1 (1%)
Inflammation, Chronic Active	2 (2%)		1 (1%)	
Mineral				1 (1%)
Thrombus	1 (1%)	1 (1%)	1 (1%)	
Artery, Inflammation, Chronic Active	1 (1%)	3 (3%)	1 (1%)	
Endocardium, Mineral	1 (1%)			
Endothelium, Hyperplasia		2 (2%)		1 (1%)
Epicardium, Inflammation, Chronic	1 (1%)			
Epicardium, Mineral	1 (1%)			
Intima, Vein, Hyperplasia		2 (2%)		
Myocardium, Infiltration Cellular, Lymphocyte		2 (2%)		2 (2%)
Myocardium, Inflammation, Chronic Active		1 (1%)		
Myocardium, Mineral	2 (2%)	2 (2%)		1 (1%)
Myocardium, Necrosis	1 (1%)		1 (1%)	

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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%)		
Vein, Inflammation, Chronic Active		1 (1%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(90)	(89)	(90)	(89)
Accessory Adrenal Cortical Nodule	1 (1%)			
Angiectasis	1 (1%)			
Hemorrhage		1 (1%)		
Hyperplasia, Focal	3 (3%)	3 (3%)	3 (3%)	1 (1%)
Hypertrophy, Focal	2 (2%)	8 (9%)		3 (3%)
Vacuolization Cytoplasmic, Focal		1 (1%)		
Bilateral, Hyperplasia, Focal			1 (1%)	
Bilateral, Hypertrophy, Focal	1 (1%)	1 (1%)		1 (1%)
Subcapsular, Hyperplasia	69 (77%)	73 (82%)	74 (82%)	66 (74%)
Adrenal Medulla	(90)	(89)	(88)	(89)
Hyperplasia		1 (1%)		
Islets, Pancreatic	(88)	(90)	(89)	(89)
Hyperplasia	18 (20%)	13 (14%)	14 (16%)	11 (12%)
Infiltration Cellular, Lymphocyte	2 (2%)	1 (1%)		4 (4%)
Parathyroid Gland	(68)	(57)	(66)	(65)
Cyst		1 (2%)		1 (2%)
Pituitary Gland	(86)	(84)	(89)	(83)
Pars Distalis, Angiectasis	1 (1%)			
Pars Distalis, Cyst	3 (3%)	1 (1%)	1 (1%)	2 (2%)
Pars Distalis, Hyperplasia, Focal	1 (1%)			
Thyroid Gland	(89)	(89)	(88)	(87)
Infiltration Cellular, Lymphocyte		1 (1%)	1 (1%)	
Arteriole, Inflammation, Chronic Active		1 (1%)		
Epithelium, Follicle, Hyperplasia, Focal		1 (1%)		

GENERAL BODY SYSTEM

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

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
GENITAL SYSTEM				
Coagulating Gland	(2)	(3)	(0)	(1)
Cyst	2 (100%)	3 (100%)		1 (100%)
Infiltration Cellular, Lymphocyte		1 (33%)		
Inflammation, Chronic		1 (33%)		
Epididymis	(90)	(91)	(90)	(90)
Granuloma Sperm	1 (1%)		2 (2%)	
Infiltration Cellular, Lymphocyte	29 (32%)	26 (29%)	26 (29%)	32 (36%)
Infiltration Cellular, Mononuclear Cell		1 (1%)		
Artery, Inflammation, Chronic		1 (1%)	1 (1%)	
Preputial Gland	(89)	(89)	(89)	(89)
Atrophy		1 (1%)		
Infiltration Cellular, Lymphocyte	43 (48%)	40 (45%)	39 (44%)	38 (43%)
Inflammation, Suppurative	1 (1%)			
Inflammation, Chronic Active	1 (1%)	3 (3%)	3 (3%)	1 (1%)
Bilateral, Inflammation, Chronic Active				1 (1%)
Bilateral, Duct, Dilation	6 (7%)	4 (4%)	5 (6%)	3 (3%)
Duct, Dilation	10 (11%)	10 (11%)	5 (6%)	5 (6%)
Duct, Inflammation, Chronic Active				1 (1%)
Duct, Necrosis	1 (1%)			
Prostate	(90)	(86)	(90)	(88)
Infiltration Cellular, Lymphocyte	4 (4%)	8 (9%)	10 (11%)	9 (10%)
Inflammation, Acute			1 (1%)	
Inflammation, Chronic Active	1 (1%)			
Arteriole, Inflammation, Chronic		1 (1%)		
Seminal Vesicle	(90)	(90)	(90)	(90)
Dilation	4 (4%)	9 (10%)	4 (4%)	2 (2%)
Inflammation, Chronic Active	1 (1%)			1 (1%)
Bilateral, Dilation	27 (30%)	19 (21%)	26 (29%)	14 (16%)
Testis	(90)	(91)	(88)	(90)
Bilateral, Germinal Epithelium, Atrophy			1 (1%)	
Germ Cell, Degeneration	2 (2%)	2 (2%)	4 (5%)	7 (8%)
Seminiferous Tubule, Necrosis				1 (1%)

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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 (3%)		2 (2%)	3 (3%)
Myeloid Cell, Hypercellularity			1 (1%)	
Lymph Node	(6)	(6)	(11)	(10)
Bronchial, Hyperplasia, Lymphoid				2 (20%)
Iliac, Erythrophagocytosis		1 (17%)		
Iliac, Hemorrhage			1 (9%)	
Iliac, Hyperplasia, Lymphoid		2 (33%)	4 (36%)	
Iliac, Infiltration Cellular, Histiocyte				1 (10%)
Iliac, Pigment			2 (18%)	1 (10%)
Inguinal, Hyperplasia, Lymphoid				2 (20%)
Mediastinal, Hyperplasia, Lymphoid		2 (33%)	1 (9%)	2 (20%)
Renal, Hemorrhage	1 (17%)			
Renal, Pigment			1 (9%)	
Lymph Node, Mandibular	(72)	(70)	(63)	(64)
Hemorrhage			1 (2%)	1 (2%)
Hyperplasia, Lymphoid	2 (3%)		1 (2%)	2 (3%)
Infiltration Cellular, Histiocyte	1 (1%)	1 (1%)	1 (2%)	2 (3%)
Infiltration Cellular, Plasma Cell		1 (1%)		
Lymph Node, Mesenteric	(85)	(88)	(86)	(85)
Erythrophagocytosis	1 (1%)	1 (1%)	1 (1%)	1 (1%)
Hemorrhage	10 (12%)	21 (24%)	16 (19%)	14 (16%)
Hyperplasia, Lymphoid	4 (5%)	3 (3%)	5 (6%)	6 (7%)
Infiltration Cellular, Histiocyte	8 (9%)	7 (8%)	5 (6%)	5 (6%)
Infiltration Cellular, Mixed Cell			1 (1%)	
Infiltration Cellular, Plasma Cell	1 (1%)		1 (1%)	
Spleen	(87)	(89)	(87)	(86)
Extramedullary Hematopoiesis	15 (17%)	7 (8%)	21 (24%)	16 (19%)
Hyperplasia, Lymphoid	5 (6%)	4 (4%)	3 (3%)	9 (10%)
Thymus	(75)	(76)	(80)	(81)
Atrophy	11 (15%)	3 (4%)	8 (10%)	5 (6%)
Cyst	11 (15%)	17 (22%)	19 (24%)	19 (23%)

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Hemorrhage	1 (1%)			1 (1%)
Hyperplasia, Lymphoid		2 (3%)		
INTEGUMENTARY SYSTEM				
Mammary Gland	(2)	(1)	(0)	(3)
Skin	(90)	(91)	(90)	(90)
Infiltration Cellular, Mixed Cell	1 (1%)			
Inflammation, Chronic				1 (1%)
Ulcer	2 (2%)	1 (1%)	2 (2%)	4 (4%)
Epidermis, Hyperplasia, Focal			1 (1%)	2 (2%)
MUSCULOSKELETAL SYSTEM				
Bone	(90)	(91)	(90)	(90)
Fibro-Osseous Lesion			1 (1%)	
Increased Bone				1 (1%)
Skeletal Muscle	(90)	(91)	(90)	(90)
Degeneration	1 (1%)	1 (1%)		
Infiltration Cellular, Lymphocyte	3 (3%)	1 (1%)	1 (1%)	4 (4%)
Inflammation, Granulomatous				1 (1%)
Inflammation, Acute			1 (1%)	
NERVOUS SYSTEM				
Brain	(90)	(91)	(90)	(90)
Hemorrhage	2 (2%)			
Infiltration Cellular, Lymphocyte	1 (1%)			
Mineral	79 (88%)	80 (88%)	77 (86%)	77 (86%)
Necrosis		1 (1%)		
Artery, Meninges, Inflammation, Chronic Active	1 (1%)	2 (2%)	3 (3%)	1 (1%)
Meninges, Inflammation, Chronic			1 (1%)	
Brain Trigeminal Ganglion	(69)	(79)	(80)	(80)
Nerve Trigeminal	(67)	(57)	(43)	(55)

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Peripheral Nerve, Sciatic	(89)	(91)	(87)	(88)
Inflammation, Chronic Active				1 (1%)
Axon, Degeneration	9 (10%)	5 (5%)	4 (5%)	11 (13%)
Spinal Cord	(90)	(91)	(90)	(90)
Degeneration		1 (1%)		
Necrosis	1 (1%)	1 (1%)	1 (1%)	
Squamous Cyst				2 (2%)
Artery, Meninges, Inflammation, Chronic Active	1 (1%)	2 (2%)	4 (4%)	1 (1%)

RESPIRATORY SYSTEM

Lung	(90)	(91)	(90)	(90)
Congestion	2 (2%)		3 (3%)	2 (2%)
Hemorrhage	3 (3%)	2 (2%)	4 (4%)	1 (1%)
Infiltration Cellular, Histiocyte	6 (7%)	5 (5%)	3 (3%)	5 (6%)
Infiltration Cellular, Lymphocyte	1 (1%)	1 (1%)	3 (3%)	
Infiltration Cellular, Mononuclear Cell			1 (1%)	3 (3%)
Inflammation, Granulomatous				1 (1%)
Alveolar Epithelium, Hyperplasia, Focal	6 (7%)	7 (8%)	8 (9%)	5 (6%)
Bronchiole, Foreign Body	1 (1%)			
Bronchiole, Inflammation, Suppurative	1 (1%)			
Nose	(90)	(91)	(90)	(90)
Infiltration Cellular, Lymphocyte			1 (1%)	
Inflammation, Acute	1 (1%)			
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 (1%)			1 (1%)
Respiratory Epithelium, Hyperplasia	5 (6%)	1 (1%)		
Vomeronasal Organ, Fibrosis	1 (1%)			
Trachea	(90)	(90)	(90)	(89)

SPECIAL SENSES SYSTEM

Eye	(90)	(91)	(89)	(90)
Atrophy			1 (1%)	1 (1%)
Bilateral, Cornea, Inflammation, Chronic Active				1 (1%)

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Bilateral, Iris, Synechia				1 (1%)
Cornea, Edema		1 (1%)		
Cornea, Fibrosis	1 (1%)			
Cornea, Hyperplasia, Squamous, Diffuse		1 (1%)		
Sclera, Inflammation, Acute			1 (1%)	
Harderian Gland	(88)	(91)	(90)	(88)
Hemorrhage	1 (1%)			
Hyperplasia, Focal	2 (2%)	3 (3%)	1 (1%)	
Infiltration Cellular, Lymphocyte	36 (41%)	41 (45%)	40 (44%)	38 (43%)
Mineral		1 (1%)		

URINARY SYSTEM

Kidney	(90)	(89)	(90)	(90)
Infarct	7 (8%)	6 (7%)	11 (12%)	7 (8%)
Inflammation, Suppurative	1 (1%)			
Inflammation, Granulomatous	1 (1%)			
Metaplasia, Osseous	3 (3%)	8 (9%)	3 (3%)	5 (6%)
Mineral		3 (3%)	1 (1%)	1 (1%)
Nephropathy, Chronic Progressive	74 (82%)	84 (94%)	81 (90%)	77 (86%)
Artery, Inflammation, Chronic Active		1 (1%)		
Bilateral, Bacteria			1 (1%)	
Bilateral, Infarct		1 (1%)		2 (2%)
Bilateral, Inflammation, Acute			1 (1%)	
Bilateral, Renal Tubule, Pigment				1 (1%)
Glomerulus, Cyst	1 (1%)	2 (2%)		1 (1%)
Interstitial, Infiltration Cellular, Lymphocyte	41 (46%)	55 (62%)	57 (63%)	40 (44%)
Interstitial, Inflammation, Acute				1 (1%)
Papilla, Bacteria			1 (1%)	
Papilla, Inflammation, Acute			1 (1%)	
Pelvis, Dilation	1 (1%)			2 (2%)
Pelvis, Inflammation, Acute				1 (1%)
Renal Tubule, Cyst	8 (9%)	11 (12%)	7 (8%)	10 (11%)
Renal Tubule, Hyperplasia, Focal		1 (1%)		
Renal Tubule, Mineral	1 (1%)	4 (4%)	4 (4%)	5 (6%)

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Urothelium, Inflammation, Chronic Active	1 (1%)			
Ureter	(0)	(0)	(1)	(0)
Inflammation, Chronic Active			1 (100%)	
Urinary Bladder	(87)	(90)	(90)	(89)
Hemorrhage	3 (3%)			
Infiltration Cellular, Lymphocyte	26 (30%)	33 (37%)	39 (43%)	41 (46%)

*** END OF MALE ***

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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 (1%)	
Infiltration Cellular, Lymphocyte Epithelium, Hyperplasia, Diffuse	2 (3%)	4 (5%)	2 (3%) 1 (1%)	3 (4%)
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 (1%)			
Intestine Small, Ileum	(83)	(82)	(76)	(81)
Inflammation, Suppurative		1 (1%)		
Peyer's Patch, Hyperplasia, Lymphoid		2 (2%)		
Intestine Small, Jejunum	(84)	(81)	(80)	(77)
Peyer's Patch, Hyperplasia, Lymphoid	1 (1%)	2 (2%)		
Liver	(89)	(88)	(90)	(90)
Angiectasis				1 (1%)
Basophilic Focus	4 (4%)	4 (5%)	3 (3%)	1 (1%)
Clear Cell Focus	1 (1%)			
Eosinophilic Focus	2 (2%)		2 (2%)	2 (2%)
Extramedullary Hematopoiesis	1 (1%)	2 (2%)		2 (2%)
Fatty Change	7 (8%)	1 (1%)	2 (2%)	9 (10%)
Hemorrhage	1 (1%)		1 (1%)	1 (1%)

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

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Infiltration Cellular, Lymphocyte	33 (37%)	22 (25%)	26 (29%)	24 (27%)
Infiltration Cellular, Mononuclear Cell	1 (1%)			
Inflammation, Focal	4 (4%)	2 (2%)		
Inflammation, Chronic Active	1 (1%)			2 (2%)
Mixed Cell Focus	5 (6%)			
Necrosis	6 (7%)	2 (2%)	3 (3%)	4 (4%)
Centrilobular, Necrosis				1 (1%)
Hepatocyte, Fatty Change, Focal	3 (3%)		1 (1%)	
Hepatocyte, Hypertrophy			1 (1%)	
Kupffer Cell, Hyperplasia	1 (1%)			
Oval Cell, Hyperplasia			1 (1%)	
Mesentery	(29)	(24)	(34)	(24)
Artery, Inflammation, Chronic			1 (3%)	
Fat, Infiltration Cellular, Lymphocyte	2 (7%)		1 (3%)	1 (4%)
Fat, Inflammation, Chronic				2 (8%)
Fat, Inflammation, Chronic Active	1 (3%)			2 (8%)
Fat, Mineral		1 (4%)	2 (6%)	
Fat, Necrosis	25 (86%)	22 (92%)	30 (88%)	19 (79%)
Pancreas	(87)	(86)	(85)	(84)
Infiltration Cellular, Lymphocyte	27 (31%)	23 (27%)	21 (25%)	19 (23%)
Inflammation, Chronic Active	1 (1%)			
Necrosis		1 (1%)		2 (2%)
Acinus, Atrophy			1 (1%)	2 (2%)
Duct, Cyst	1 (1%)		3 (4%)	1 (1%)
Salivary Glands	(89)	(88)	(87)	(89)
Atrophy	1 (1%)			
Infiltration Cellular, Lymphocyte	59 (66%)	61 (69%)	54 (62%)	60 (67%)
Stomach, Forestomach	(86)	(88)	(87)	(87)
Cyst			1 (1%)	
Epithelium, Hyperplasia, Focal			1 (1%)	1 (1%)
Stomach, Glandular	(85)	(88)	(85)	(83)
Cyst	3 (4%)	2 (2%)		
Infiltration Cellular, Lymphocyte			2 (2%)	

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

Experiment Number: 20105 - 75

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 08/24/2017

Time Report Requested: 12:34:53

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

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 (1%)	
Inflammation, Acute			1 (1%)	
Inflammation, Chronic Active	1 (1%)			
Thrombus				1 (1%)
Heart	(90)	(89)	(90)	(90)
Bacteria	1 (1%)		1 (1%)	2 (2%)
Cardiomyopathy	3 (3%)	4 (4%)	4 (4%)	6 (7%)
Thrombus	3 (3%)			2 (2%)
Artery, Inflammation, Chronic Active		2 (2%)	1 (1%)	
Endothelium, Hyperplasia		1 (1%)		
Epicardium, Infiltration Cellular, Mixed Cell	1 (1%)			
Epicardium, Infiltration Cellular, Mononuclear Cell	1 (1%)			
Myocardium, Fibrosis	1 (1%)			1 (1%)
Myocardium, Hemorrhage		1 (1%)		
Myocardium, Inflammation, Acute				2 (2%)
Myocardium, Inflammation, Chronic Active	1 (1%)	1 (1%)	2 (2%)	
Myocardium, Mineral	4 (4%)		1 (1%)	2 (2%)
Myocardium, Necrosis			1 (1%)	
Valve, Hemorrhage	1 (1%)			
Valve, Infiltration Cellular, Lymphocyte	1 (1%)			
Valve, Thrombus	1 (1%)		1 (1%)	
<hr/> ENDOCRINE SYSTEM				
Adrenal Cortex	(84)	(88)	(87)	(88)
Accessory Adrenal Cortical Nodule			2 (2%)	3 (3%)
Angiectasis	1 (1%)			
Hemorrhage	1 (1%)		1 (1%)	1 (1%)
Hyperplasia, Focal		1 (1%)		
Infiltration Cellular, Mixed Cell			1 (1%)	
Mineral	1 (1%)			

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Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1

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

Cell Phone Radiation: CDMA

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Vacuolization Cytoplasmic		1 (1%)		
Vacuolization Cytoplasmic, Focal				1 (1%)
Bilateral, Extramedullary Hematopoiesis	1 (1%)			
Bilateral, Infiltration Cellular, Mixed Cell			1 (1%)	
Bilateral, Vacuolization Cytoplasmic		1 (1%)		2 (2%)
Subcapsular, Hyperplasia	81 (96%)	84 (95%)	84 (97%)	86 (98%)
Adrenal Medulla	(83)	(87)	(84)	(84)
Hemorrhage	2 (2%)			
Hyperplasia		2 (2%)	1 (1%)	
Mineral	1 (1%)			
Islets, Pancreatic	(87)	(88)	(89)	(87)
Hyperplasia	1 (1%)		1 (1%)	2 (2%)
Infiltration Cellular, Lymphocyte	3 (3%)	3 (3%)	5 (6%)	1 (1%)
Parathyroid Gland	(60)	(59)	(65)	(68)
Cyst	1 (2%)			
Infiltration Cellular, Lymphocyte		1 (2%)		1 (1%)
Pituitary Gland	(80)	(79)	(88)	(86)
Pars Distalis, Angiectasis	2 (3%)	9 (11%)	4 (5%)	2 (2%)
Pars Distalis, Cyst	1 (1%)	1 (1%)	1 (1%)	2 (2%)
Pars Distalis, Hyperplasia, Focal	2 (3%)	2 (3%)	4 (5%)	6 (7%)
Thyroid Gland	(86)	(87)	(88)	(88)
Infiltration Cellular, Lymphocyte	1 (1%)	1 (1%)	7 (8%)	5 (6%)
Inflammation, Chronic Active		1 (1%)		
Follicle, Cyst	1 (1%)		2 (2%)	3 (3%)
GENERAL BODY SYSTEM				
Tissue NOS	(1)	(1)	(1)	(0)
GENITAL SYSTEM				
Clitoral Gland	(82)	(82)	(81)	(82)
Infiltration Cellular, Lymphocyte	3 (4%)			1 (1%)
Inflammation, Granulomatous				1 (1%)
Duct, Cyst	1 (1%)	1 (1%)		

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Ovary	(75)	(84)	(84)	(83)
Angiectasis		3 (4%)		
Cyst	9 (12%)	11 (13%)	7 (8%)	4 (5%)
Hemorrhage	1 (1%)	1 (1%)		
Infiltration Cellular, Histiocyte			1 (1%)	
Inflammation, Granulomatous				1 (1%)
Mineral	1 (1%)		1 (1%)	
Follicle, Cyst	9 (12%)	7 (8%)	6 (7%)	8 (10%)
Granulosa Cell, Hyperplasia				1 (1%)
Paraovarian Tissue, Cyst		2 (2%)		
Uterus	(89)	(89)	(88)	(90)
Adenomyosis			1 (1%)	
Angiectasis	1 (1%)	3 (3%)	3 (3%)	4 (4%)
Dilation	35 (39%)	21 (24%)	44 (50%)	37 (41%)
Hemorrhage	1 (1%)			
Infiltration Cellular, Lymphocyte				1 (1%)
Inflammation, Chronic Active			1 (1%)	
Mineral			1 (1%)	
Necrosis			1 (1%)	
Thrombus	1 (1%)		3 (3%)	1 (1%)
Arteriole, Degeneration			1 (1%)	
Endometrium, Cyst	3 (3%)			2 (2%)
Endometrium, Hyperplasia, Cystic	68 (76%)	75 (84%)	67 (76%)	68 (76%)
Endometrium, Metaplasia, Squamous	1 (1%)			

HEMATOPOIETIC SYSTEM

Bone Marrow	(90)	(89)	(89)	(89)
Hypercellularity	7 (8%)	8 (9%)	3 (3%)	4 (4%)
Hypocellularity	1 (1%)		1 (1%)	
Myeloid Cell, Hypercellularity	1 (1%)	1 (1%)		
Lymph Node	(18)	(21)	(18)	(18)
Hemorrhage			1 (6%)	
Hyperplasia, Lymphoid	1 (6%)			
Infiltration Cellular, Mixed Cell				1 (6%)

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Axillary, Infiltration Cellular, Mixed Cell	1 (6%)			
Axillary, Pigment	1 (6%)			
Bronchial, Hemorrhage			1 (6%)	
Bronchial, Hyperplasia, Lymphoid	2 (11%)	2 (10%)		1 (6%)
Bronchial, Infiltration Cellular, Histiocyte		1 (5%)		
Bronchial, Infiltration Cellular, Mixed Cell		1 (5%)		
Iliac, Hemorrhage	1 (6%)		3 (17%)	1 (6%)
Iliac, Hyperplasia, Lymphoid	4 (22%)	4 (19%)	9 (50%)	4 (22%)
Iliac, Infiltration Cellular, Histiocyte		1 (5%)	1 (6%)	
Iliac, Infiltration Cellular, Mixed Cell	1 (6%)	1 (5%)	1 (6%)	1 (6%)
Iliac, Infiltration Cellular, Plasma Cell			1 (6%)	
Iliac, Pigment		1 (5%)	2 (11%)	
Lumbar, Hemorrhage		1 (5%)		
Lumbar, Hyperplasia, Lymphoid		2 (10%)	1 (6%)	
Lumbar, Infiltration Cellular, Mixed Cell	1 (6%)			
Mediastinal, Hyperplasia, Lymphoid	1 (6%)	4 (19%)	1 (6%)	3 (17%)
Mediastinal, Infiltration Cellular, Histiocyte				1 (6%)
Pancreatic, Hyperplasia, Lymphoid	1 (6%)			1 (6%)
Renal, Ectasia		1 (5%)		
Renal, Hemorrhage	1 (6%)			
Renal, Hyperplasia, Lymphoid	3 (17%)		2 (11%)	2 (11%)
Renal, Infiltration Cellular, Mixed Cell		1 (5%)		
Lymph Node, Mandibular	(76)	(79)	(76)	(73)
Hemorrhage	3 (4%)	1 (1%)	1 (1%)	2 (3%)
Hyperplasia, Lymphoid	1 (1%)	1 (1%)	1 (1%)	2 (3%)
Infiltration Cellular, Histiocyte		1 (1%)	1 (1%)	
Infiltration Cellular, Mixed Cell	1 (1%)			
Lymph Node, Mesenteric	(71)	(86)	(75)	(81)
Ectasia				1 (1%)
Erythrophagocytosis	1 (1%)			
Hemorrhage	1 (1%)	3 (3%)	6 (8%)	3 (4%)
Hyperplasia, Lymphoid	1 (1%)	5 (6%)	4 (5%)	4 (5%)
Infiltration Cellular, Histiocyte	3 (4%)	4 (5%)	2 (3%)	4 (5%)
Infiltration Cellular, Plasma Cell			1 (1%)	
Spleen	(86)	(87)	(86)	(88)
Atrophy	1 (1%)			

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Extramedullary Hematopoiesis	20 (23%)	18 (21%)	12 (14%)	16 (18%)
Hemorrhage		1 (1%)		
Hyperplasia, Lymphoid	11 (13%)	10 (11%)	12 (14%)	14 (16%)
Capsule, Fibrosis	1 (1%)		1 (1%)	
Thymus	(85)	(83)	(82)	(82)
Atrophy	5 (6%)	3 (4%)	4 (5%)	2 (2%)
Cyst	2 (2%)	4 (5%)	4 (5%)	6 (7%)
Hemorrhage		2 (2%)	1 (1%)	2 (2%)
Hyperplasia, Lymphoid	1 (1%)		2 (2%)	
<hr/>				
INTEGUMENTARY SYSTEM				
Mammary Gland	(85)	(87)	(90)	(88)
Hyperplasia, Focal	1 (1%)		1 (1%)	
Hyperplasia, Diffuse	1 (1%)	1 (1%)		
Infiltration Cellular, Lymphocyte		1 (1%)		
Duct, Dilation	1 (1%)	2 (2%)	2 (2%)	2 (2%)
Skin	(90)	(89)	(90)	(90)
Ulcer	2 (2%)	3 (3%)	1 (1%)	1 (1%)
Epidermis, Hyperplasia, Focal		1 (1%)		1 (1%)
Hair Follicle, Atrophy	2 (2%)	2 (2%)		5 (6%)
Subcutaneous Tissue, Fibrosis				1 (1%)
<hr/>				
MUSCULOSKELETAL SYSTEM				
Bone	(90)	(89)	(90)	(89)
Fibro-Osseous Lesion	11 (12%)		1 (1%)	2 (2%)
Increased Bone		1 (1%)	1 (1%)	
Skeletal Muscle	(89)	(89)	(90)	(90)
Degeneration		1 (1%)		1 (1%)
Infiltration Cellular, Lymphocyte	16 (18%)	7 (8%)	11 (12%)	9 (10%)
Mineral	1 (1%)			

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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%)			2 (2%)
Hydrocephalus	1 (1%)			
Inflammation, Acute	1 (1%)			
Mineral	80 (92%)	81 (92%)	78 (87%)	74 (82%)
Necrosis	1 (1%)		1 (1%)	
Artery, Meninges, Inflammation, Chronic Active		3 (3%)	1 (1%)	1 (1%)
Brain Trigeminal Ganglion	(75)	(82)	(75)	(74)
Nerve Trigeminal	(56)	(30)	(52)	(51)
Peripheral Nerve, Sciatic	(88)	(88)	(89)	(88)
Axon, Degeneration	12 (14%)	4 (5%)	8 (9%)	11 (13%)
Spinal Cord	(90)	(89)	(90)	(90)
Cyst, Squamous, Multiple			1 (1%)	1 (1%)
Degeneration		1 (1%)		
Demyelination		1 (1%)		
Metaplasia, Osseous		1 (1%)		
Necrosis		2 (2%)		

RESPIRATORY SYSTEM				
Lung	(90)	(89)	(90)	(90)
Congestion			2 (2%)	4 (4%)
Hemorrhage	4 (4%)	7 (8%)	4 (4%)	4 (4%)
Infiltration Cellular, Histiocyte	1 (1%)	2 (2%)	1 (1%)	2 (2%)
Infiltration Cellular, Lymphocyte	3 (3%)	2 (2%)	4 (4%)	
Infiltration Cellular, Mixed Cell		1 (1%)		
Infiltration Cellular, Mononuclear Cell		1 (1%)		
Inflammation, Granulomatous		1 (1%)		
Inflammation, Acute	1 (1%)			
Inflammation, Chronic	1 (1%)			
Inflammation, Chronic Active				1 (1%)
Alveolar Epithelium, Hyperplasia, Focal	1 (1%)	3 (3%)	3 (3%)	3 (3%)
Mediastinum	(2)	(0)	(0)	(0)

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Nose	(89)	(89)	(90)	(90)
Inflammation, Acute	1 (1%)			
Respiratory Epithelium, Accumulation, Hyaline Droplet			1 (1%)	
Trachea	(90)	(87)	(89)	(88)

SPECIAL SENSES SYSTEM

Eye	(89)	(89)	(90)	(89)
Phthisis Bulbi				1 (1%)
Anterior Chamber, Inflammation, Acute				1 (1%)
Harderian Gland	(89)	(88)	(89)	(89)
Hyperplasia, Focal		1 (1%)		
Infiltration Cellular, Lymphocyte	58 (65%)	66 (75%)	61 (69%)	64 (72%)

URINARY SYSTEM

Kidney	(89)	(89)	(88)	(87)
Cyst	1 (1%)			
Infarct	14 (16%)	26 (29%)	23 (26%)	17 (20%)
Metaplasia, Osseous	2 (2%)	1 (1%)	2 (2%)	2 (2%)
Nephropathy, Chronic Progressive	8 (9%)	12 (13%)	7 (8%)	7 (8%)
Bilateral, Infarct	1 (1%)			
Interstitial, Infiltration Cellular, Lymphocyte	63 (71%)	65 (73%)	50 (57%)	50 (57%)
Medulla, Mineral				1 (1%)
Papilla, Mineral			2 (2%)	
Papilla, Necrosis		1 (1%)		
Pelvis, Dilation	1 (1%)			
Renal Tubule, Cyst				1 (1%)
Renal Tubule, Dilation	1 (1%)		1 (1%)	1 (1%)
Renal Tubule, Mineral	1 (1%)			
Renal Tubule, Vacuolization Cytoplasmic			1 (1%)	
Urinary Bladder	(86)	(86)	(83)	(85)
Angiectasis			6 (7%)	2 (2%)
Infiltration Cellular, Lymphocyte	62 (72%)	64 (74%)	70 (84%)	65 (76%)

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B6C3F1 MICE FEMALE

0 W/kg

2.5 W/kg

5 W/kg

10 W/kg

Transitional Epithelium, Hyperplasia, Diffuse

1 (1%)

*** END OF REPORT ***

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