



Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 12:19:07

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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

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**

<b>Animals Initially In Study</b>	<b>105</b>	<b>105</b>	<b>105</b>	<b>105</b>
<b>Early Deaths</b>				
<b>Accidentally Killed</b>		<b>1</b>		
<b>Moribund Sacrifice</b>	<b>8</b>	<b>6</b>	<b>2</b>	<b>6</b>
<b>Natural Death</b>	<b>16</b>	<b>19</b>	<b>8</b>	<b>12</b>
<b>Survivors</b>				
<b>Natural Death</b>			<b>1</b>	<b>4</b>
<b>Terminal Sacrifice</b>	<b>66</b>	<b>63</b>	<b>79</b>	<b>68</b>
<b>Missing</b>		<b>1</b>		
<b>Animals Examined Microscopically</b>	<b>90</b>	<b>89</b>	<b>90</b>	<b>90</b>

## ALIMENTARY SYSTEM

Esophagus	(88)	(87)	(88)	(90)
Gallbladder	(73)	(66)	(74)	(79)
Inflammation, Acute		1 [2.0]		
Intestine Large, Cecum	(81)	(77)	(84)	(78)
Intestine Large, Colon	(84)	(83)	(85)	(84)
Intestine Large, Rectum	(84)	(85)	(86)	(84)
Intestine Small, Duodenum	(77)	(77)	(83)	(79)
Intestine Small, Ileum	(81)	(79)	(85)	(80)
Peyer's Patch, Hyperplasia, Lymphoid	1 [3.0]	1 [3.0]	1 [2.0]	1 [3.0]
Peyer's Patch, Infiltration Cellular, Plasma Cell	1 [2.0]			
Intestine Small, Jejunum	(79)	(79)	(82)	(79)
Inflammation, Granulomatous	1 [2.0]			
Epithelium, Cyst	1			
Peyer's Patch, Hyperplasia, Lymphoid			1 [3.0]	1 [4.0]
Liver	(90)	(89)	(90)	(90)
Angiectasis			2 [2.5]	
Basophilic Focus	1	2	4	3
Clear Cell Focus	28	34	41	31
Eosinophilic Focus	4	4	8	1
Extramedullary Hematopoiesis	2 [1.5]	2 [1.0]	2 [2.0]	
Fatty Change	37 [1.8]	31 [2.2]	35 [2.1]	35 [1.9]

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Fibrosis	1 [2.0]			
Hemorrhage	1 [3.0]			
Infiltration Cellular, Lymphocyte	2 [1.5]			2 [1.5]
Infiltration Cellular, Mixed Cell	1 [1.0]			
Inflammation, Focal	1 [1.0]	1 [1.0]	3 [1.0]	
Inflammation, Chronic				2 [1.5]
Inflammation, Chronic Active	2 [1.5]		1 [3.0]	1 [1.0]
Mixed Cell Focus	2	3	7	4
Necrosis	6 [2.2]	6 [3.0]	4 [3.0]	3 [2.0]
Bile Duct, Cyst		2	1	
Hepatocyte, Fatty Change, Focal		1 [1.0]		2 [1.5]
Mesentery	(12)	(14)	(13)	(17)
Artery, Inflammation, Chronic Active		1 [2.0]		2 [2.5]
Fat, Hemorrhage		1 [3.0]		
Fat, Inflammation, Granulomatous				1 [3.0]
Fat, Mineral			1 [2.0]	
Fat, Necrosis	8 [2.3]	11 [2.8]	12 [2.7]	13 [2.6]
Pancreas	(87)	(88)	(88)	(86)
Hemorrhage	1 [3.0]			
Infiltration Cellular, Lymphocyte	3 [1.0]	5 [1.4]	3 [1.0]	1 [1.0]
Infiltration Cellular, Mixed Cell				1 [3.0]
Inflammation, Granulomatous	1 [3.0]			
Inflammation, Acute				1 [2.0]
Inflammation, Chronic Active				1 [1.0]
Acinus, Atrophy		1 [3.0]		
Duct, Cyst	1	2		
Duct, Fibrosis	1 [2.0]			
Salivary Glands	(90)	(89)	(89)	(89)
Infiltration Cellular, Lymphocyte	58 [1.6]	59 [1.6]	65 [1.6]	65 [1.5]
Stomach, Forestomach	(88)	(87)	(89)	(87)
Cyst, Squamous			1	3
Hyperkeratosis		1 [2.0]		2 [2.5]
Infiltration Cellular, Lymphocyte			1 [2.0]	
Inflammation, Chronic			1 [3.0]	
Epithelium, Hyperplasia, Focal	3 [2.0]	2 [2.5]	2 [2.5]	
Epithelium, Hyperplasia, Diffuse		1 [2.0]		1 [2.0]

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Stomach, Glandular	(87)	(86)	(88)	(85)
Accumulation, Hyaline Droplet		2 [2.0]		
Cyst				1
Hemorrhage	1 [2.0]			
Ulcer				1 [2.0]
Epithelium, Hyperplasia, Focal	1 [2.0]			
Tooth	(27)	(26)	(16)	(20)
Dysplasia	26 [2.6]	26 [2.6]	14 [2.7]	20 [2.5]
Inflammation, Suppurative	2 [2.5]		2 [3.0]	
Inflammation, Chronic Active				1 [3.0]

## CARDIOVASCULAR SYSTEM

Aorta	(89)	(89)	(89)	(87)
Blood Vessel	(1)	(0)	(0)	(0)
Inflammation, Chronic	1 [3.0]			
Heart	(90)	(89)	(90)	(90)
Bacteria	1	2		
Cardiomyopathy	10 [1.2]	2 [1.5]	1 [1.0]	2 [1.5]
Inflammation, Acute	1 [2.0]			
Inflammation, Chronic Active	2 [1.5]	2 [2.0]		1 [1.0]
Thrombus	1 [4.0]	2 [3.0]		1 [2.0]
Artery, Inflammation, Chronic Active	1 [2.0]	2 [1.5]		3 [1.7]
Endocardium, Mineral	1 [2.0]			
Endothelium, Hyperplasia		1 [1.0]		1 [2.0]
Epicardium, Inflammation, Chronic	1 [2.0]			
Epicardium, Mineral	1 [2.0]			
Myocardium, Hemorrhage		1 [2.0]		
Myocardium, Mineral	2 [1.5]	2 [1.5]	1 [1.0]	1 [1.0]
Myocardium, Necrosis	1 [2.0]	2 [2.0]		

## ENDOCRINE SYSTEM

Adrenal Cortex	(90)	(89)	(89)	(88)
Accessory Adrenal Cortical Nodule	1			

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Angiectasis	1 [3.0]			
Hyperplasia, Focal	3 [2.3]	1 [2.0]	6 [2.8]	6 [1.8]
Hypertrophy, Focal	2 [1.5]	8 [1.9]	9 [1.7]	1 [2.0]
Infiltration Cellular, Mononuclear Cell				1 [3.0]
Bilateral, Hyperplasia, Focal			1 [3.0]	
Bilateral, Hypertrophy, Focal	1 [2.0]	5 [2.0]	4 [2.0]	1 [2.0]
Subcapsular, Hyperplasia	69 [1.7]	72 [1.7]	80 [1.9]	72 [1.7]
Adrenal Medulla	(90)	(88)	(88)	(86)
Islets, Pancreatic	(88)	(88)	(90)	(89)
Atrophy				1 [4.0]
Hyperplasia	18 [2.3]	20 [2.4]	16 [2.1]	10 [2.8]
Infiltration Cellular, Lymphocyte	2 [1.5]	1 [1.0]	2 [1.0]	
Parathyroid Gland	(68)	(68)	(67)	(66)
Cyst		2	4	1
Pituitary Gland	(86)	(85)	(87)	(85)
Pars Distalis, Angiectasis	1 [2.0]			
Pars Distalis, Cyst	3	4	3	4
Pars Distalis, Hyperplasia, Focal	1 [2.0]	2 [1.5]	1 [2.0]	
Thyroid Gland	(89)	(88)	(88)	(88)
Infiltration Cellular, Lymphocyte			1 [1.0]	1 [1.0]

## GENERAL BODY SYSTEM

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

## GENITAL SYSTEM

Coagulating Gland	(2)	(2)	(0)	(4)
Cyst	2	1		3
Bilateral, Inflammation, Chronic Active		1 [3.0]		
Epididymis	(90)	(89)	(90)	(90)
Granuloma Sperm	1 [3.0]	1 [2.0]	1 [2.0]	1 [2.0]
Infiltration Cellular, Lymphocyte	29 [1.1]	17 [1.1]	22 [1.3]	28 [1.1]
Spermatocoele				1 [2.0]

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Bilateral, Duct, Atrophy				1 [3.0]
Preputial Gland	(89)	(88)	(90)	(89)
Infiltration Cellular, Lymphocyte	43 [1.6]	32 [1.5]	38 [1.7]	33 [1.5]
Inflammation, Suppurative	1 [3.0]			
Inflammation, Chronic Active	1 [2.0]		1 [4.0]	
Bilateral, Hyperplasia			1 [2.0]	
Bilateral, Duct, Dilation	6 [2.2]	2 [3.0]	9 [2.3]	2 [2.5]
Duct, Dilation	10 [3.0]	6 [2.3]	11 [2.7]	4 [2.8]
Duct, Inflammation, Chronic Active			1 [4.0]	
Duct, Necrosis	1 [2.0]			
Prostate	(90)	(87)	(90)	(87)
Hyperplasia, Focal				1 [2.0]
Infiltration Cellular, Lymphocyte	4 [1.3]	3 [1.7]	6 [1.2]	9 [1.3]
Inflammation, Acute		1 [2.0]		5 [1.8]
Inflammation, Chronic Active	1 [3.0]		1 [3.0]	
Seminal Vesicle	(90)	(88)	(90)	(90)
Dilation	4 [2.8]	4 [2.3]	5 [2.4]	4 [2.3]
Hyperplasia				1 [3.0]
Inflammation, Chronic Active	1 [2.0]	1 [3.0]		
Bilateral, Atrophy				1 [3.0]
Bilateral, Dilation	27 [2.4]	26 [2.5]	23 [2.5]	29 [2.5]
Bilateral, Fibrosis				1 [2.0]
Bilateral, Inflammation, Acute				1 [2.0]
Bilateral, Inflammation, Chronic		1 [3.0]	1 [1.0]	
Bilateral, Inflammation, Chronic Active				1 [3.0]
Testis	(90)	(88)	(90)	(90)
Bilateral, Germ Cell, Degeneration				1 [2.0]
Germ Cell, Degeneration	2 [1.0]	1 [2.0]	1 [2.0]	

## HEMATOPOIETIC SYSTEM

Bone Marrow	(90)	(88)	(90)	(90)
Hypercellularity	3 [2.7]		2 [2.5]	3 [2.7]
Lymph Node	(6)	(8)	(7)	(9)
Bronchial, Infiltration Cellular, Mixed Cell				1 [3.0]

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Iliac, Erythrophagocytosis		1 [2.0]		
Iliac, Hemorrhage		1 [2.0]		
Iliac, Hyperplasia, Lymphoid		1 [2.0]		2 [1.5]
Iliac, Infiltration Cellular, Histiocyte		2 [2.0]	2 [2.0]	
Iliac, Infiltration Cellular, Plasma Cell				1 [3.0]
Iliac, Pigment			2 [2.0]	
Lumbar, Hemorrhage				1 [2.0]
Mediastinal, Hyperplasia, Lymphoid				1 [2.0]
Mediastinal, Infiltration Cellular, Plasma Cell		1 [2.0]		
Pancreatic, Hyperplasia, Lymphoid			2 [2.5]	
Renal, Hemorrhage	1 [3.0]		1 [2.0]	
Renal, Hyperplasia, Lymphoid			1 [3.0]	
Renal, Infiltration Cellular, Mixed Cell				1 [2.0]
Lymph Node, Mandibular Hemorrhage	(72)	(61)	(63)	(60)
Hyperplasia, Lymphoid	2 [1.0]			
Infiltration Cellular, Histiocyte	1 [1.0]			1 [2.0]
Lymph Node, Mesenteric	(85)	(82)	(88)	(83)
Erythrophagocytosis	1 [3.0]	5 [2.2]	4 [1.8]	1 [3.0]
Hemorrhage	10 [1.8]	11 [2.0]	7 [2.1]	13 [1.7]
Hyperplasia, Lymphoid	4 [2.5]	2 [2.0]	2 [3.0]	5 [2.6]
Infiltration Cellular, Histiocyte	8 [2.4]	7 [2.1]	5 [2.2]	4 [2.0]
Infiltration Cellular, Mixed Cell		2 [2.0]		
Infiltration Cellular, Plasma Cell	1 [3.0]	1 [3.0]	1 [4.0]	1 [3.0]
Spleen	(87)	(88)	(89)	(88)
Extramedullary Hematopoiesis	15 [2.2]	15 [2.3]	13 [2.2]	12 [2.2]
Hyperplasia, Lymphoid	5 [2.2]	2 [2.5]	5 [2.2]	3 [2.0]
White Pulp, Atrophy			1 [2.0]	
Thymus	(75)	(83)	(81)	(72)
Atrophy	11 [3.3]	16 [3.3]	4 [3.0]	14 [3.1]
Cyst	11	16	26	15
Hemorrhage	1 [3.0]	1 [2.0]	1 [3.0]	
Infiltration Cellular, Histiocyte				1 [3.0]

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(2)	(5)	(2)	(8)
Skin	(90)	(89)	(90)	(90)
Cyst, Squamous				1
Hyperkeratosis		1 [2.0]		
Infiltration Cellular, Mixed Cell	1 [1.0]			
Inflammation, Chronic		1 [2.0]		
Ulcer	2 [3.0]	2 [4.0]	2 [3.0]	1 [3.0]
Epidermis, Hyperplasia, Focal		1 [2.0]		
Hair Follicle, Atrophy				2 [3.0]
Subcutaneous Tissue, Inflammation, Granulomatous			1 [4.0]	
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(90)	(88)	(90)	(90)
Callus				1 [3.0]
Increased Bone			1 [1.0]	
Skeletal Muscle	(90)	(89)	(90)	(90)
Degeneration	1 [2.0]			1 [1.0]
Infiltration Cellular, Lymphocyte	3 [1.3]		5 [1.2]	5 [1.4]
Inflammation, Acute		1 [3.0]		1 [2.0]
Inflammation, Chronic Active				1 [2.0]
Necrosis		1 [3.0]		
<b>NERVOUS SYSTEM</b>				
Brain	(90)	(89)	(90)	(90)
Hemorrhage	2 [2.0]	2 [1.5]		
Infiltration Cellular, Lymphocyte	1 [2.0]			
Inflammation, Acute		1 [1.0]		
Mineral	79 [1.5]	81 [1.6]	80 [1.6]	76 [1.6]
Squamous Cyst			1	
Artery, Meninges, Inflammation, Chronic Active	1 [2.0]			1 [1.0]

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Brain Trigeminal Ganglion	(69)	(79)	(72)	(79)
Nerve Trigeminal	(67)	(53)	(66)	(63)
Peripheral Nerve, Sciatic	(89)	(89)	(90)	(89)
Axon, Degeneration	9 [1.1]	9 [1.1]	9 [1.2]	4 [1.0]
Spinal Cord	(90)	(89)	(90)	(90)
Cyst, Squamous			1	
Degeneration		1 [1.0]		
Hemorrhage		1 [1.0]		
Necrosis	1 [1.0]	1 [2.0]		1 [1.0]
Artery, Meninges, Inflammation, Chronic Active	1 [1.0]		2 [1.0]	1 [1.0]

## RESPIRATORY SYSTEM

Lung	(90)	(89)	(90)	(90)
Congestion	2 [2.5]	2 [2.0]	3 [2.0]	3 [2.7]
Hemorrhage	3 [2.0]	5 [1.6]	4 [1.8]	3 [2.0]
Infiltration Cellular, Histiocyte	6 [2.0]	1 [1.0]	1 [3.0]	2 [3.0]
Infiltration Cellular, Lymphocyte	1 [2.0]		1 [2.0]	
Inflammation, Chronic Active		1 [1.0]		
Alveolar Epithelium, Hyperplasia, Focal	6 [1.8]	8 [1.6]	8 [1.8]	7 [1.7]
Bronchiole, Foreign Body	1			
Bronchiole, Inflammation, Suppurative	1 [2.0]			
Mediastinum	(0)	(0)	(2)	(1)
Nose	(90)	(89)	(90)	(89)
Inflammation, Acute	1 [2.0]			
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 [2.0]			
Respiratory Epithelium, Hyperplasia	5 [1.8]			
Vomeronasal Organ, Fibrosis	1 [2.0]			
Trachea	(90)	(89)	(89)	(90)

## SPECIAL SENSES SYSTEM

Eye	(90)	(89)	(90)	(90)
Phthisis Bulbi		1	3	1

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Cornea, Fibrosis	1 [3.0]			
Cornea, Inflammation, Chronic Active				1 [2.0]
Optic Nerve, Degeneration			1 [3.0]	
Retina, Atrophy				1 [4.0]
Retina, Degeneration			1 [3.0]	
Harderian Gland	(88)	(89)	(90)	(90)
Hemorrhage	1 [2.0]			
Hyperplasia, Focal	2 [2.0]	1 [2.0]	2 [2.0]	1 [2.0]
Infiltration Cellular, Lymphocyte	36 [1.3]	36 [1.3]	32 [1.4]	40 [1.3]

## URINARY SYSTEM

Kidney	(90)	(89)	(90)	(89)
Bacteria		1		
Infarct	7 [2.0]	4 [1.8]	4 [1.5]	8 [1.5]
Infiltration Cellular, Histiocyte		1 [1.0]		
Infiltration Cellular, Mixed Cell		1 [1.0]		
Inflammation, Suppurative	1 [3.0]			
Inflammation, Granulomatous	1 [2.0]			
Inflammation, Acute		1 [2.0]		
Metaplasia, Osseous	3	6	5	1
Mineral		2 [1.0]		
Nephropathy, Chronic Progressive	74 [1.4]	66 [1.4]	76 [1.1]	74 [1.3]
Bilateral, Bacteria		1		
Bilateral, Inflammation, Acute		1 [2.0]		1 [3.0]
Bilateral, Renal Tubule, Bacteria				1
Bilateral, Renal Tubule, Pigment		1 [2.0]		1 [3.0]
Glomerulus, Cyst	1			1
Interstitial, Infiltration Cellular, Lymphocyte	41 [1.6]	50 [1.6]	56 [1.6]	44 [1.4]
Pelvis, Dilatation	1 [3.0]			1 [3.0]
Renal Tubule, Accumulation, Hyaline Droplet				1 [2.0]
Renal Tubule, Bacteria		1		
Renal Tubule, Cyst	8	3	4	5
Renal Tubule, Dilatation				1 [2.0]
Renal Tubule, Mineral	1 [2.0]			4 [1.5]

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Experiment Number: 20105 - 78

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

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Urothelium, Inflammation, Chronic Active	1 [1.0]			
Urinary Bladder	(87)	(88)	(90)	(89)
Hemorrhage	3 [2.0]			
Infiltration Cellular, Lymphocyte	26 [1.3]	20 [1.3]	24 [1.5]	21 [1.3]
Inflammation, Acute		1 [2.0]		
Inflammation, Chronic Active		1 [2.0]		
Transitional Epithelium, Hyperplasia, Diffuse		1 [3.0]		
Transitional Epithelium, Hyperplasia, Multifocal		2 [2.0]		

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

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

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 12:19:07

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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**

<b>Animals Initially In Study</b>	<b>105</b>	<b>105</b>	<b>105</b>	<b>105</b>
<b>Early Deaths</b>				
<b>Moribund Sacrifice</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>6</b>
<b>Natural Death</b>	<b>14</b>	<b>7</b>	<b>11</b>	<b>11</b>
<b>Survivors</b>				
<b>Natural Death</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>
<b>Terminal Sacrifice</b>	<b>66</b>	<b>70</b>	<b>68</b>	<b>72</b>
<b>Animals Examined Microscopically</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>90</b>

## ALIMENTARY SYSTEM

Esophagus	(87)	(90)	(87)	(90)
Gallbladder	(79)	(75)	(74)	(72)
Cyst		1	1	
Infiltration Cellular, Lymphocyte	2 [2.0]	5 [1.6]	2 [1.5]	4 [1.5]
Intestine Large, Cecum	(84)	(82)	(83)	(82)
Intestine Large, Colon	(84)	(84)	(86)	(85)
Intestine Large, Rectum	(88)	(86)	(88)	(86)
Intestine Small, Duodenum	(82)	(83)	(84)	(81)
Inflammation, Acute	1 [2.0]			
Intestine Small, Ileum	(83)	(82)	(82)	(80)
Peyer's Patch, Hyperplasia, Lymphoid			1 [3.0]	
Intestine Small, Jejunum	(84)	(81)	(81)	(80)
Peyer's Patch, Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]		
Liver	(89)	(90)	(90)	(89)
Basophilic Focus	4	2	5	5
Clear Cell Focus	1			
Eosinophilic Focus	2	1	1	
Extramedullary Hematopoiesis	1 [1.0]		1 [3.0]	
Fatty Change	7 [2.1]	1 [2.0]		2 [3.0]
Hemorrhage	1 [2.0]	1 [2.0]	1 [4.0]	
Infiltration Cellular, Lymphocyte	33 [1.3]	25 [1.4]	21 [1.2]	32 [1.3]
Infiltration Cellular, Mononuclear Cell	1 [2.0]	2 [2.0]	1 [2.0]	
Infiltration Cellular, Polymorphonuclear		1 [2.0]		

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Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 12:19:07

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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
Inflammation, Focal	4 [1.3]	2 [1.5]		
Inflammation, Acute			1 [3.0]	
Inflammation, Chronic Active	1 [2.0]			
Mixed Cell Focus	5	1		1
Necrosis	6 [2.8]	5 [2.2]	6 [2.7]	3 [1.7]
Artery, Inflammation, Chronic			1 [2.0]	
Bile Duct, Cyst		1	1	
Centrilobular, Hepatocyte, Hypertrophy				1 [3.0]
Hepatocyte, Fatty Change, Focal	3 [1.3]		1 [1.0]	
Hepatocyte, Hyperplasia			1 [2.0]	
Hepatocyte, Hypertrophy			1 [2.0]	
Hepatocyte, Inclusion Body Intracytoplasmic				1 [2.0]
Hepatocyte, Vacuolization Cytoplasmic			4 [1.5]	1 [2.0]
Kupffer Cell, Hyperplasia	1 [3.0]			
Mesentery	(29)	(24)	(32)	(30)
Artery, Inflammation, Chronic		2 [3.0]		
Fat, Infiltration Cellular, Lymphocyte	2 [3.0]	1 [1.0]		
Fat, Inflammation, Granulomatous		1 [2.0]		
Fat, Inflammation, Chronic Active	1 [2.0]			
Fat, Mineral		1 [2.0]	1 [2.0]	
Fat, Necrosis	25 [2.6]	19 [2.4]	27 [2.5]	27 [2.5]
Oral Mucosa	(0)	(0)	(2)	(0)
Pancreas	(87)	(88)	(89)	(86)
Degeneration				1 [2.0]
Infiltration Cellular, Lipocyte		1 [4.0]		1 [4.0]
Infiltration Cellular, Histiocyte			1 [3.0]	
Infiltration Cellular, Lymphocyte	27 [1.4]	26 [1.2]	30 [1.3]	24 [1.4]
Inflammation, Suppurative				1 [3.0]
Inflammation, Chronic Active	1 [4.0]			
Necrosis				1 [3.0]
Acinus, Atrophy			2 [3.0]	1 [4.0]
Duct, Cyst	1	1	2	3
Duct, Inflammation, Chronic Active				1 [4.0]
Salivary Glands	(89)	(89)	(90)	(90)
Atrophy	1 [2.0]			
Infiltration Cellular, Lymphocyte	59 [1.4]	54 [1.5]	55 [1.5]	62 [1.5]

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Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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
Inflammation, Acute Mineral		1 [3.0]		
Arteriole, Inflammation, Chronic		1 [2.0]	1 [1.0]	
Stomach, Forestomach	(86)	(89)	(90)	(85)
Cyst			1	
Hyperkeratosis			1 [2.0]	
Ulcer		1 [2.0]		
Epithelium, Hyperplasia, Focal			2 [2.0]	
Stomach, Glandular	(85)	(87)	(85)	(85)
Cyst	3	3	4	
Infiltration Cellular, Lymphocyte			1 [2.0]	2 [1.0]
Ulcer			1 [3.0]	
Tongue	(0)	(0)	(1)	(0)
Tooth	(0)	(0)	(1)	(0)

## CARDIOVASCULAR SYSTEM

Aorta	(84)	(88)	(90)	(89)
Degeneration				1 [4.0]
Inflammation, Chronic Active	1 [3.0]			
Blood Vessel	(0)	(0)	(2)	(0)
Heart	(90)	(90)	(90)	(90)
Bacteria	1	1	2	
Cardiomyopathy	3 [1.3]	1 [1.0]	3 [1.7]	3 [1.0]
Thrombus	3 [2.7]	1 [3.0]	2 [3.5]	
Artery, Inflammation, Chronic Active		4 [2.5]		1 [2.0]
Endocardium, Hyperplasia			1 [1.0]	
Epicardium, Infiltration Cellular, Mixed Cell	1 [2.0]			
Epicardium, Infiltration Cellular, Mononuclear Cell	1 [1.0]			
Myocardium, Fibrosis	1 [1.0]			
Myocardium, Infiltration Cellular, Lymphocyte			1 [1.0]	2 [1.0]
Myocardium, Inflammation, Acute		1 [2.0]	2 [2.5]	
Myocardium, Inflammation, Chronic Active	1 [2.0]			
Myocardium, Mineral	4 [1.8]			1 [2.0]

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Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Valve, Hemorrhage	1 [2.0]			
Valve, Infiltration Cellular, Lymphocyte	1 [1.0]			
Valve, Inflammation, Chronic			1 [3.0]	
Valve, Thrombus	1 [3.0]			

## ENDOCRINE SYSTEM

Adrenal Cortex	(84)	(88)	(90)	(90)
Accessory Adrenal Cortical Nodule		1	1	1
Angiectasis	1 [3.0]			
Hemorrhage	1 [2.0]		3 [2.3]	
Mineral	1 [2.0]			
Vacuolization Cytoplasmic		2 [2.0]		
Bilateral, Extramedullary Hematopoiesis	1 [1.0]			
Bilateral, Hyperplasia, Focal		1 [2.0]		
Bilateral, Vacuolization Cytoplasmic		3 [2.3]	1 [1.0]	1 [2.0]
Subcapsular, Hyperplasia	81 [2.2]	85 [2.0]	88 [2.0]	86 [2.0]
Adrenal Medulla	(83)	(84)	(86)	(87)
Hemorrhage	2 [2.0]		1 [2.0]	
Hyperplasia			2 [2.0]	
Mineral	1 [2.0]			
Islets, Pancreatic	(87)	(88)	(90)	(86)
Hyperplasia	1 [2.0]	3 [2.0]	1 [3.0]	
Infiltration Cellular, Lymphocyte	3 [1.3]	2 [1.5]	2 [1.0]	3 [1.7]
Parathyroid Gland	(60)	(57)	(64)	(62)
Cyst	1			
Infiltration Cellular, Lymphocyte			1 [3.0]	1 [2.0]
Pituitary Gland	(80)	(80)	(84)	(84)
Pars Distalis, Angiectasis	2 [2.0]	7 [1.9]	6 [1.7]	5 [2.2]
Pars Distalis, Cyst	1	3		1
Pars Distalis, Cytoplasmic Alteration				1 [2.0]
Pars Distalis, Hyperplasia, Focal	2 [3.0]	4 [2.3]	5 [1.8]	4 [2.3]
Thyroid Gland	(86)	(89)	(86)	(86)
Infiltration Cellular, Lymphocyte	1 [1.0]	6 [1.2]	6 [1.2]	3 [1.0]
Ultimobranchial Cyst			2	

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Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Follicle, Cyst	1	1		
Follicular Cell, Hyperplasia, Focal		4 [1.8]		

## GENERAL BODY SYSTEM

Peritoneum	(0)	(0)	(1)	(0)
Tissue NOS	(1)	(1)	(1)	(2)

## GENITAL SYSTEM

Clitoral Gland	(82)	(84)	(80)	(86)
Infiltration Cellular, Lymphocyte	3 [1.0]			1 [2.0]
Duct, Cyst	1		1	
Ovary	(75)	(86)	(82)	(80)
Angiectasis		1 [3.0]	1 [4.0]	2 [2.0]
Cyst	9	13	8	7
Cyst, Squamous			1	
Hemorrhage	1 [3.0]	2 [3.5]	1 [4.0]	
Hyperplasia, Cystic, Papillary		1 [3.0]	1 [3.0]	
Hyperplasia, Tubulostromal				1 [2.0]
Infiltration Cellular, Lymphocyte				1 [2.0]
Mineral	1 [2.0]			
Thrombus			1 [3.0]	1 [4.0]
Bursa, Cyst				1
Follicle, Cyst	9	11	6	7
Granulosa Cell, Hyperplasia		2 [2.5]		
Paraovarian Tissue, Cyst				1
Oviduct	(0)	(0)	(1)	(0)
Uterus	(89)	(90)	(90)	(89)
Angiectasis	1 [3.0]	6 [3.0]	5 [3.2]	3 [3.0]
Congestion		1 [2.0]		
Dilation	35 [2.5]	29 [2.9]	30 [2.9]	26 [3.0]
Hemorrhage	1 [4.0]	1 [3.0]	1 [3.0]	
Infiltration Cellular, Lymphocyte			1 [3.0]	
Inflammation, Acute		1 [3.0]		

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Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Thrombus	1 [3.0]			
Endometrium, Cyst	3			1
Endometrium, Hyperplasia		1 [3.0]		1 [2.0]
Endometrium, Hyperplasia, Cystic	68 [2.5]	75 [2.5]	72 [2.4]	68 [2.4]
Endometrium, Metaplasia, Squamous	1 [3.0]			
Vagina	(0)	(0)	(1)	(0)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(90)	(89)	(89)	(90)
Hypercellularity	7 [2.4]	8 [2.7]	4 [2.8]	4 [3.0]
Hypocellularity	1 [3.0]	1 [2.0]		
Myeloid Cell, Hypercellularity	1 [4.0]			
Lymph Node	(18)	(20)	(16)	(14)
Hemorrhage			1 [2.0]	1 [3.0]
Hyperplasia, Lymphoid	1 [2.0]			
Axillary, Infiltration Cellular, Mixed Cell	1 [2.0]			
Axillary, Pigment	1 [2.0]			
Bronchial, Hyperplasia, Lymphoid	2 [2.0]			4 [2.0]
Iliac, Erythrophagocytosis		1 [2.0]		
Iliac, Hemorrhage	1 [3.0]		2 [2.5]	
Iliac, Hyperplasia, Lymphoid	4 [2.5]	2 [2.5]	6 [2.3]	2 [2.0]
Iliac, Infiltration Cellular, Histiocyte		1 [3.0]	1 [2.0]	
Iliac, Infiltration Cellular, Mixed Cell	1 [2.0]	1 [2.0]	4 [2.0]	
Iliac, Pigment			4 [2.0]	
Lumbar, Hyperplasia, Lymphoid		1 [3.0]		
Lumbar, Infiltration Cellular, Mixed Cell	1 [2.0]			
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]	2 [1.0]		
Mediastinal, Infiltration Cellular, Plasma Cell		1 [2.0]		
Pancreatic, Hyperplasia, Lymphoid	1 [3.0]			
Renal, Erythrophagocytosis			1 [3.0]	
Renal, Hemorrhage	1 [3.0]			
Renal, Hyperplasia, Lymphoid	3 [3.3]	2 [3.0]	1 [3.0]	
Lymph Node, Mandibular	(76)	(77)	(81)	(83)
Hemorrhage	3 [2.7]	2 [1.5]	1 [2.0]	1 [3.0]

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Route: Whole Body Exposure

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Species/Strain: MICE/B6C3F1

Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Hyperplasia, Lymphoid	1 [2.0]	1 [3.0]	1 [3.0]	4 [2.8]
Infiltration Cellular, Histiocyte			2 [2.5]	
Infiltration Cellular, Mixed Cell	1 [2.0]			
Lymph Node, Mesenteric	(71)	(84)	(80)	(83)
Angiectasis		1 [3.0]		
Erythrophagocytosis	1 [2.0]		1 [2.0]	
Hemorrhage	1 [1.0]	4 [2.0]	2 [3.0]	1 [1.0]
Hyperplasia, Lymphoid	1 [3.0]	10 [2.2]	3 [2.3]	3 [3.0]
Infiltration Cellular, Histiocyte	3 [2.0]	8 [2.0]	6 [2.0]	4 [2.3]
Infiltration Cellular, Plasma Cell		2 [3.0]		
Spleen	(86)	(87)	(89)	(87)
Atrophy	1 [3.0]			
Extramedullary Hematopoiesis	20 [2.5]	15 [2.6]	19 [2.6]	11 [2.5]
Hyperplasia, Lymphoid	11 [2.2]	7 [2.0]	13 [2.2]	10 [2.2]
Capsule, Fibrosis	1 [3.0]			
Capsule, Inflammation, Chronic Active			1 [3.0]	
Thymus	(85)	(80)	(84)	(86)
Atrophy	5 [3.6]	3 [3.0]	8 [3.0]	1 [3.0]
Cyst	2	2	7	2
Hemorrhage			1 [2.0]	1 [2.0]
Hyperplasia, Lymphoid	1 [2.0]		2 [3.5]	2 [3.0]
Infiltration Cellular, Histiocyte		1 [3.0]		

## INTEGUMENTARY SYSTEM

Mammary Gland	(85)	(88)	(88)	(84)
Hyperplasia, Focal	1 [3.0]		1 [2.0]	
Hyperplasia, Diffuse	1 [2.0]	1 [2.0]	1 [2.0]	1 [2.0]
Duct, Dilation	1 [3.0]	1 [2.0]	2 [2.0]	1 [3.0]
Skin	(90)	(90)	(90)	(90)
Inflammation, Chronic		1 [4.0]		
Ulcer	2 [3.5]	2 [4.0]	2 [3.5]	2 [3.0]
Epidermis, Hyperplasia, Multifocal				1 [3.0]
Hair Follicle, Atrophy	2 [3.0]	1 [3.0]	4 [2.8]	8 [3.0]
Subcutaneous Tissue, Inflammation, Chronic			1 [2.0]	

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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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## MUSCULOSKELETAL SYSTEM

Bone	(90)	(90)	(89)	(90)
Decreased Bone		1 [3.0]		
Fibro-Osseous Lesion	11 [2.1]	6 [2.2]	4 [2.0]	3 [2.7]
Increased Bone		1 [2.0]		1 [2.0]
Periosteum, Vertebra, Inflammation, Granulomatous		1 [2.0]		
Skeletal Muscle	(89)	(90)	(90)	(90)
Degeneration			2 [1.0]	1 [2.0]
Infiltration Cellular, Lymphocyte	16 [1.1]	5 [1.2]	10 [1.3]	16 [1.4]
Inflammation, Chronic Active				1 [2.0]
Mineral	1 [1.0]			
Arteriole, Inflammation, Chronic		2 [2.5]		

## NERVOUS SYSTEM

Brain	(87)	(90)	(90)	(90)
Cyst, Squamous			2	
Hemorrhage	2 [2.0]		3 [2.0]	
Hydrocephalus	1 [2.0]			
Inflammation, Acute	1 [2.0]			
Inflammation, Chronic		1 [2.0]		
Mineral	80 [1.6]	78 [1.4]	77 [1.4]	78 [1.4]
Necrosis	1 [2.0]	1 [3.0]	1 [2.0]	1 [1.0]
Artery, Meninges, Inflammation, Chronic Active		5 [2.0]	3 [2.0]	2 [2.0]
Brain Trigeminal Ganglion	(75)	(74)	(80)	(79)
Nerve Trigeminal	(56)	(58)	(53)	(35)
Peripheral Nerve	(0)	(0)	(1)	(0)
Peripheral Nerve, Sciatic	(88)	(87)	(88)	(88)
Axon, Degeneration	12 [1.2]	6 [1.5]	7 [1.7]	6 [1.8]
Spinal Cord	(90)	(90)	(90)	(90)
Cyst, Squamous		1		
Necrosis		3 [2.0]		

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Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Artery, Meninges, Inflammation, Chronic Active		5 [1.2]	1 [1.0]	2 [1.5]

## RESPIRATORY SYSTEM

Larynx	(0)	(0)	(2)	(0)
Lung	(90)	(90)	(90)	(90)
Congestion		2 [2.0]	2 [3.0]	1 [3.0]
Hemorrhage	4 [2.5]	1 [3.0]	3 [2.0]	3 [2.3]
Hyperplasia, Lymphoid		1 [2.0]	1 [2.0]	
Infiltration Cellular, Histiocyte	1 [3.0]	2 [2.5]		
Infiltration Cellular, Lymphocyte	3 [2.0]	1 [2.0]	2 [2.0]	3 [2.0]
Infiltration Cellular, Mononuclear Cell		1 [1.0]		
Inflammation, Acute	1 [3.0]			
Inflammation, Chronic	1 [2.0]			
Inflammation, Chronic Active				1 [2.0]
Alveolar Epithelium, Hyperplasia, Focal	1 [2.0]	1 [2.0]	1 [2.0]	3 [1.7]
Serosa, Inflammation, Chronic		1 [1.0]		
Mediastinum	(2)	(0)	(0)	(0)
Nose	(89)	(90)	(90)	(90)
Inflammation, Acute	1 [3.0]			
Respiratory Epithelium, Accumulation, Hyaline Droplet		1 [2.0]		
Respiratory Epithelium, Hyperplasia			1 [2.0]	
Vomeranasal Organ, Cyst				1
Pleura	(0)	(0)	(1)	(0)
Trachea	(90)	(89)	(90)	(90)

## SPECIAL SENSES SYSTEM

Ear	(0)	(0)	(1)	(0)
Eye	(89)	(88)	(90)	(90)
Phthisis Bulbi			1	
Anterior Chamber, Inflammation, Acute				1 [2.0]
Bilateral, Retina, Hemorrhage			1 [4.0]	
Cornea, Inflammation, Acute			1 [3.0]	1 [2.0]

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Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Cornea, Inflammation, Chronic			2 [1.5]	
Cornea, Inflammation, Chronic Active		1 [3.0]		
Cornea, Necrosis		1 [4.0]	1 [3.0]	
Harderian Gland	(89)	(90)	(90)	(87)
Hyperplasia, Focal			1 [2.0]	
Infiltration Cellular, Lymphocyte	58 [1.2]	68 [1.2]	69 [1.1]	63 [1.2]
Inflammation, Chronic Active				1 [2.0]
Lacrimal Gland	(0)	(1)	(2)	(0)
Zymbal's Gland	(0)	(0)	(1)	(0)

## URINARY SYSTEM

Kidney	(89)	(87)	(89)	(88)
Cyst	1			
Glomerulopathy, Hyaline		2 [3.5]		
Hemorrhage				1 [1.0]
Infarct	14 [1.7]	19 [1.8]	20 [1.7]	14 [1.5]
Inflammation, Acute			1 [2.0]	
Metaplasia, Osseous	2	2	2	2
Nephropathy, Chronic Progressive	8 [1.5]	15 [1.1]	19 [1.4]	14 [1.1]
Bilateral, Infarct	1 [3.0]			
Interstitial, Infiltration Cellular, Lymphocyte	63 [1.6]	60 [1.3]	65 [1.5]	56 [1.4]
Papilla, Mineral		2 [1.5]	1 [1.0]	1 [1.0]
Pelvis, Dilatation	1 [3.0]			
Pelvis, Mineral				1 [1.0]
Pelvis, Necrosis			1 [2.0]	
Renal Tubule, Dilation	1 [1.0]		1 [2.0]	1 [2.0]
Renal Tubule, Hyaline Droplet		1 [2.0]		
Renal Tubule, Mineral	1 [1.0]		1 [2.0]	
Renal Tubule, Vacuolization Cytoplasmic		1 [3.0]		
Ureter	(0)	(0)	(1)	(0)
Urethra	(0)	(0)	(1)	(0)
Urinary Bladder	(86)	(87)	(86)	(86)
Angiectasis				2 [2.0]
Infiltration Cellular, Lymphocyte	62 [1.8]	67 [1.6]	65 [1.6]	68 [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 - 78

**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: GSM

Time Report Requested: 12:19:07

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

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

Species/Strain: MICE/B6C3F1

Lab: IIT

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Inflammation, Acute			1 [2.0]	
Arteriole, Inflammation, Chronic		1 [2.0]		
Urothelium, Hyperplasia			1 [2.0]	

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\*\*\* 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)