

Experiment Number: 20105 - 78
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: GSM
CAS Number: CELLPRADGSM

Date Report Requested: 08/24/2017
Time Report Requested: 10:54:40
First Dose M/F: 06/18/12 / 06/18/12
Lab: IIT

Final 1 GSM Mice Core Study

NTP Study Number:	C20105		
Lock Date:	04/07/2016		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25023 MISS	25022 ACCK	25021 TSAC
	25020 NATD	25019 MSAC	
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.2.3_002		
PWG Approval Date:	NONE		

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

ALIMENTARY SYSTEM

Esophagus	(88)	(87)	(88)	(90)
Gallbladder	(73)	(66)	(74)	(79)
Inflammation, Acute		1 (2%)		
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 (1%)	1 (1%)	1 (1%)	1 (1%)
Peyer's Patch, Infiltration Cellular, Plasma Cell	1 (1%)			
Intestine Small, Jejunum	(79)	(79)	(82)	(79)
Inflammation, Granulomatous	1 (1%)			
Epithelium, Cyst	1 (1%)			
Peyer's Patch, Hyperplasia, Lymphoid			1 (1%)	1 (1%)
Liver	(90)	(89)	(90)	(90)
Angiectasis			2 (2%)	
Basophilic Focus	1 (1%)	2 (2%)	4 (4%)	3 (3%)
Clear Cell Focus	28 (31%)	34 (38%)	41 (46%)	31 (34%)
Eosinophilic Focus	4 (4%)	4 (4%)	8 (9%)	1 (1%)
Extramedullary Hematopoiesis	2 (2%)	2 (2%)	2 (2%)	
Fatty Change	37 (41%)	31 (35%)	35 (39%)	35 (39%)

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Fibrosis	1 (1%)			
Hemorrhage	1 (1%)			
Infiltration Cellular, Lymphocyte	2 (2%)			2 (2%)
Infiltration Cellular, Mixed Cell	1 (1%)			
Inflammation, Focal	1 (1%)	1 (1%)	3 (3%)	
Inflammation, Chronic				2 (2%)
Inflammation, Chronic Active	2 (2%)		1 (1%)	1 (1%)
Mixed Cell Focus	2 (2%)	3 (3%)	7 (8%)	4 (4%)
Necrosis	6 (7%)	6 (7%)	4 (4%)	3 (3%)
Bile Duct, Cyst		2 (2%)	1 (1%)	
Hepatocyte, Fatty Change, Focal		1 (1%)		2 (2%)
Mesentery	(12)	(14)	(13)	(17)
Artery, Inflammation, Chronic Active		1 (7%)		2 (12%)
Fat, Hemorrhage		1 (7%)		
Fat, Inflammation, Granulomatous				1 (6%)
Fat, Mineral			1 (8%)	
Fat, Necrosis	8 (67%)	11 (79%)	12 (92%)	13 (76%)
Pancreas	(87)	(88)	(88)	(86)
Hemorrhage	1 (1%)			
Infiltration Cellular, Lymphocyte	3 (3%)	5 (6%)	3 (3%)	1 (1%)
Infiltration Cellular, Mixed Cell				1 (1%)
Inflammation, Granulomatous	1 (1%)			
Inflammation, Acute				1 (1%)
Inflammation, Chronic Active				1 (1%)
Acinus, Atrophy		1 (1%)		
Duct, Cyst	1 (1%)	2 (2%)		
Duct, Fibrosis	1 (1%)			
Salivary Glands	(90)	(89)	(89)	(89)
Infiltration Cellular, Lymphocyte	58 (64%)	59 (66%)	65 (73%)	65 (73%)
Stomach, Forestomach	(88)	(87)	(89)	(87)
Cyst, Squamous			1 (1%)	3 (3%)
Hyperkeratosis		1 (1%)		2 (2%)
Infiltration Cellular, Lymphocyte			1 (1%)	
Inflammation, Chronic			1 (1%)	
Epithelium, Hyperplasia, Focal	3 (3%)	2 (2%)	2 (2%)	
Epithelium, Hyperplasia, Diffuse		1 (1%)		1 (1%)

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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%)		
Cyst				1 (1%)
Hemorrhage	1 (1%)			
Ulcer				1 (1%)
Epithelium, Hyperplasia, Focal	1 (1%)			
Tooth	(27)	(26)	(16)	(20)
Dysplasia	26 (96%)	26 (100%)	14 (88%)	20 (100%)
Inflammation, Suppurative	2 (7%)		2 (13%)	
Inflammation, Chronic Active				1 (5%)

CARDIOVASCULAR SYSTEM

Aorta	(89)	(89)	(89)	(87)
Blood Vessel	(1)	(0)	(0)	(0)
Inflammation, Chronic	1 (100%)			
Heart	(90)	(89)	(90)	(90)
Bacteria	1 (1%)	2 (2%)		
Cardiomyopathy	10 (11%)	2 (2%)	1 (1%)	2 (2%)
Inflammation, Acute	1 (1%)			
Inflammation, Chronic Active	2 (2%)	2 (2%)		1 (1%)
Thrombus	1 (1%)	2 (2%)		1 (1%)
Artery, Inflammation, Chronic Active	1 (1%)	2 (2%)		3 (3%)
Endocardium, Mineral	1 (1%)			
Endothelium, Hyperplasia		1 (1%)		1 (1%)
Epicardium, Inflammation, Chronic	1 (1%)			
Epicardium, Mineral	1 (1%)			
Myocardium, Hemorrhage		1 (1%)		
Myocardium, Mineral	2 (2%)	2 (2%)	1 (1%)	1 (1%)
Myocardium, Necrosis	1 (1%)	2 (2%)		

ENDOCRINE SYSTEM

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

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Angiectasis	1 (1%)			
Hyperplasia, Focal	3 (3%)	1 (1%)	6 (7%)	6 (7%)
Hypertrophy, Focal	2 (2%)	8 (9%)	9 (10%)	1 (1%)
Infiltration Cellular, Mononuclear Cell				1 (1%)
Bilateral, Hyperplasia, Focal			1 (1%)	
Bilateral, Hypertrophy, Focal	1 (1%)	5 (6%)	4 (4%)	1 (1%)
Subcapsular, Hyperplasia	69 (77%)	72 (81%)	80 (90%)	72 (82%)
Adrenal Medulla	(90)	(88)	(88)	(86)
Islets, Pancreatic	(88)	(88)	(90)	(89)
Atrophy				1 (1%)
Hyperplasia	18 (20%)	20 (23%)	16 (18%)	10 (11%)
Infiltration Cellular, Lymphocyte	2 (2%)	1 (1%)	2 (2%)	
Parathyroid Gland	(68)	(68)	(67)	(66)
Cyst		2 (3%)	4 (6%)	1 (2%)
Pituitary Gland	(86)	(85)	(87)	(85)
Pars Distalis, Angiectasis	1 (1%)			
Pars Distalis, Cyst	3 (3%)	4 (5%)	3 (3%)	4 (5%)
Pars Distalis, Hyperplasia, Focal	1 (1%)	2 (2%)	1 (1%)	
Thyroid Gland	(89)	(88)	(88)	(88)
Infiltration Cellular, Lymphocyte			1 (1%)	1 (1%)
GENERAL BODY SYSTEM				
Peritoneum	(1)	(0)	(0)	(0)
Tissue NOS	(0)	(0)	(0)	(1)
GENITAL SYSTEM				
Coagulating Gland	(2)	(2)	(0)	(4)
Cyst	2 (100%)	1 (50%)		3 (75%)
Bilateral, Inflammation, Chronic Active		1 (50%)		
Epididymis	(90)	(89)	(90)	(90)
Granuloma Sperm	1 (1%)	1 (1%)	1 (1%)	1 (1%)
Infiltration Cellular, Lymphocyte	29 (32%)	17 (19%)	22 (24%)	28 (31%)
Spermatocele				1 (1%)

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Bilateral, Duct, Atrophy				1 (1%)
Preputial Gland	(89)	(88)	(90)	(89)
Infiltration Cellular, Lymphocyte	43 (48%)	32 (36%)	38 (42%)	33 (37%)
Inflammation, Suppurative	1 (1%)			
Inflammation, Chronic Active	1 (1%)		1 (1%)	
Bilateral, Hyperplasia			1 (1%)	
Bilateral, Duct, Dilatation	6 (7%)	2 (2%)	9 (10%)	2 (2%)
Duct, Dilatation	10 (11%)	6 (7%)	11 (12%)	4 (4%)
Duct, Inflammation, Chronic Active			1 (1%)	
Duct, Necrosis	1 (1%)			
Prostate	(90)	(87)	(90)	(87)
Hyperplasia, Focal				1 (1%)
Infiltration Cellular, Lymphocyte	4 (4%)	3 (3%)	6 (7%)	9 (10%)
Inflammation, Acute		1 (1%)		5 (6%)
Inflammation, Chronic Active	1 (1%)		1 (1%)	
Seminal Vesicle	(90)	(88)	(90)	(90)
Dilatation	4 (4%)	4 (5%)	5 (6%)	4 (4%)
Hyperplasia				1 (1%)
Inflammation, Chronic Active	1 (1%)	1 (1%)		
Bilateral, Atrophy				1 (1%)
Bilateral, Dilatation	27 (30%)	26 (30%)	23 (26%)	29 (32%)
Bilateral, Fibrosis				1 (1%)
Bilateral, Inflammation, Acute				1 (1%)
Bilateral, Inflammation, Chronic		1 (1%)	1 (1%)	
Bilateral, Inflammation, Chronic Active				1 (1%)
Testis	(90)	(88)	(90)	(90)
Bilateral, Germ Cell, Degeneration				1 (1%)
Germ Cell, Degeneration	2 (2%)	1 (1%)	1 (1%)	

HEMATOPOIETIC SYSTEM

Bone Marrow	(90)	(88)	(90)	(90)
Hypercellularity	3 (3%)		2 (2%)	3 (3%)
Lymph Node	(6)	(8)	(7)	(9)
Bronchial, Infiltration Cellular, Mixed Cell				1 (11%)

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Iliac, Erythrophagocytosis		1 (13%)		
Iliac, Hemorrhage		1 (13%)		
Iliac, Hyperplasia, Lymphoid		1 (13%)		2 (22%)
Iliac, Infiltration Cellular, Histiocyte		2 (25%)	2 (29%)	
Iliac, Infiltration Cellular, Plasma Cell				1 (11%)
Iliac, Pigment			2 (29%)	
Lumbar, Hemorrhage				1 (11%)
Mediastinal, Hyperplasia, Lymphoid				1 (11%)
Mediastinal, Infiltration Cellular, Plasma Cell		1 (13%)		
Pancreatic, Hyperplasia, Lymphoid			2 (29%)	
Renal, Hemorrhage	1 (17%)		1 (14%)	
Renal, Hyperplasia, Lymphoid			1 (14%)	
Renal, Infiltration Cellular, Mixed Cell				1 (11%)
Lymph Node, Mandibular Hemorrhage	(72)	(61)	(63)	(60)
Hyperplasia, Lymphoid	2 (3%)			
Infiltration Cellular, Histiocyte	1 (1%)			1 (2%)
Lymph Node, Mesenteric	(85)	(82)	(88)	(83)
Erythrophagocytosis	1 (1%)	5 (6%)	4 (5%)	1 (1%)
Hemorrhage	10 (12%)	11 (13%)	7 (8%)	13 (16%)
Hyperplasia, Lymphoid	4 (5%)	2 (2%)	2 (2%)	5 (6%)
Infiltration Cellular, Histiocyte	8 (9%)	7 (9%)	5 (6%)	4 (5%)
Infiltration Cellular, Mixed Cell		2 (2%)		
Infiltration Cellular, Plasma Cell	1 (1%)	1 (1%)	1 (1%)	1 (1%)
Spleen	(87)	(88)	(89)	(88)
Extramedullary Hematopoiesis	15 (17%)	15 (17%)	13 (15%)	12 (14%)
Hyperplasia, Lymphoid	5 (6%)	2 (2%)	5 (6%)	3 (3%)
White Pulp, Atrophy			1 (1%)	
Thymus	(75)	(83)	(81)	(72)
Atrophy	11 (15%)	16 (19%)	4 (5%)	14 (19%)
Cyst	11 (15%)	16 (19%)	26 (32%)	15 (21%)
Hemorrhage	1 (1%)	1 (1%)	1 (1%)	
Infiltration Cellular, Histiocyte				1 (1%)

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B6C3F1 MICE MALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
INTEGUMENTARY SYSTEM				
Mammary Gland	(2)	(5)	(2)	(8)
Skin	(90)	(89)	(90)	(90)
Cyst, Squamous				1 (1%)
Hyperkeratosis		1 (1%)		
Infiltration Cellular, Mixed Cell	1 (1%)			
Inflammation, Chronic		1 (1%)		
Ulcer	2 (2%)	2 (2%)	2 (2%)	1 (1%)
Epidermis, Hyperplasia, Focal		1 (1%)		
Hair Follicle, Atrophy				2 (2%)
Subcutaneous Tissue, Inflammation, Granulomatous			1 (1%)	
MUSCULOSKELETAL SYSTEM				
Bone	(90)	(88)	(90)	(90)
Callus				1 (1%)
Increased Bone			1 (1%)	
Skeletal Muscle	(90)	(89)	(90)	(90)
Degeneration	1 (1%)			1 (1%)
Infiltration Cellular, Lymphocyte	3 (3%)		5 (6%)	5 (6%)
Inflammation, Acute		1 (1%)		1 (1%)
Inflammation, Chronic Active				1 (1%)
Necrosis		1 (1%)		
NERVOUS SYSTEM				
Brain	(90)	(89)	(90)	(90)
Hemorrhage	2 (2%)	2 (2%)		
Infiltration Cellular, Lymphocyte	1 (1%)			
Inflammation, Acute		1 (1%)		
Mineral	79 (88%)	81 (91%)	80 (89%)	76 (84%)
Squamous Cyst			1 (1%)	
Artery, Meninges, Inflammation, Chronic Active	1 (1%)			1 (1%)

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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 (10%)	9 (10%)	9 (10%)	4 (4%)
Spinal Cord	(90)	(89)	(90)	(90)
Cyst, Squamous			1 (1%)	
Degeneration		1 (1%)		
Hemorrhage		1 (1%)		
Necrosis	1 (1%)	1 (1%)		1 (1%)
Artery, Meninges, Inflammation, Chronic Active	1 (1%)		2 (2%)	1 (1%)

RESPIRATORY SYSTEM

Lung	(90)	(89)	(90)	(90)
Congestion	2 (2%)	2 (2%)	3 (3%)	3 (3%)
Hemorrhage	3 (3%)	5 (6%)	4 (4%)	3 (3%)
Infiltration Cellular, Histiocyte	6 (7%)	1 (1%)	1 (1%)	2 (2%)
Infiltration Cellular, Lymphocyte	1 (1%)		1 (1%)	
Inflammation, Chronic Active		1 (1%)		
Alveolar Epithelium, Hyperplasia, Focal	6 (7%)	8 (9%)	8 (9%)	7 (8%)
Bronchiole, Foreign Body	1 (1%)			
Bronchiole, Inflammation, Suppurative	1 (1%)			
Mediastinum	(0)	(0)	(2)	(1)
Nose	(90)	(89)	(90)	(89)
Inflammation, Acute	1 (1%)			
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 (1%)			
Respiratory Epithelium, Hyperplasia	5 (6%)			
Vomeronasal Organ, Fibrosis	1 (1%)			
Trachea	(90)	(89)	(89)	(90)

SPECIAL SENSES SYSTEM

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

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Cornea, Fibrosis	1 (1%)			
Cornea, Inflammation, Chronic Active				1 (1%)
Optic Nerve, Degeneration			1 (1%)	
Retina, Atrophy				1 (1%)
Retina, Degeneration			1 (1%)	
Harderian Gland	(88)	(89)	(90)	(90)
Hemorrhage	1 (1%)			
Hyperplasia, Focal	2 (2%)	1 (1%)	2 (2%)	1 (1%)
Infiltration Cellular, Lymphocyte	36 (41%)	36 (40%)	32 (36%)	40 (44%)

URINARY SYSTEM

Kidney	(90)	(89)	(90)	(89)
Bacteria		1 (1%)		
Infarct	7 (8%)	4 (4%)	4 (4%)	8 (9%)
Infiltration Cellular, Histiocyte		1 (1%)		
Infiltration Cellular, Mixed Cell		1 (1%)		
Inflammation, Suppurative	1 (1%)			
Inflammation, Granulomatous	1 (1%)			
Inflammation, Acute		1 (1%)		
Metaplasia, Osseous	3 (3%)	6 (7%)	5 (6%)	1 (1%)
Mineral		2 (2%)		
Nephropathy, Chronic Progressive	74 (82%)	66 (74%)	76 (84%)	74 (83%)
Bilateral, Bacteria		1 (1%)		
Bilateral, Inflammation, Acute		1 (1%)		1 (1%)
Bilateral, Renal Tubule, Bacteria				1 (1%)
Bilateral, Renal Tubule, Pigment		1 (1%)		1 (1%)
Glomerulus, Cyst	1 (1%)			1 (1%)
Interstitial, Infiltration Cellular, Lymphocyte	41 (46%)	50 (56%)	56 (62%)	44 (49%)
Pelvis, Dilatation	1 (1%)			1 (1%)
Renal Tubule, Accumulation, Hyaline Droplet				1 (1%)
Renal Tubule, Bacteria		1 (1%)		
Renal Tubule, Cyst	8 (9%)	3 (3%)	4 (4%)	5 (6%)
Renal Tubule, Dilatation				1 (1%)
Renal Tubule, Mineral	1 (1%)			4 (4%)

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Urothelium, Inflammation, Chronic Active	1 (1%)			
Urinary Bladder	(87)	(88)	(90)	(89)
Hemorrhage	3 (3%)			
Infiltration Cellular, Lymphocyte	26 (30%)	20 (23%)	24 (27%)	21 (24%)
Inflammation, Acute		1 (1%)		
Inflammation, Chronic Active		1 (1%)		
Transitional Epithelium, Hyperplasia, Diffuse		1 (1%)		
Transitional Epithelium, Hyperplasia, Multifocal		2 (2%)		

*** END OF MALE ***

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B6C3F1 MICE FEMALE

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2.5 W/kg

5 W/kg

10 W/kg

Disposition Summary

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

ALIMENTARY SYSTEM

Esophagus	(87)	(90)	(87)	(90)
Gallbladder	(79)	(75)	(74)	(72)
Cyst		1 (1%)	1 (1%)	
Infiltration Cellular, Lymphocyte	2 (3%)	5 (7%)	2 (3%)	4 (6%)
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 (1%)			
Intestine Small, Ileum	(83)	(82)	(82)	(80)
Peyer's Patch, Hyperplasia, Lymphoid			1 (1%)	
Intestine Small, Jejunum	(84)	(81)	(81)	(80)
Peyer's Patch, Hyperplasia, Lymphoid	1 (1%)	1 (1%)		
Liver	(89)	(90)	(90)	(89)
Basophilic Focus	4 (4%)	2 (2%)	5 (6%)	5 (6%)
Clear Cell Focus	1 (1%)			
Eosinophilic Focus	2 (2%)	1 (1%)	1 (1%)	
Extramedullary Hematopoiesis	1 (1%)		1 (1%)	
Fatty Change	7 (8%)	1 (1%)		2 (2%)
Hemorrhage	1 (1%)	1 (1%)	1 (1%)	
Infiltration Cellular, Lymphocyte	33 (37%)	25 (28%)	21 (23%)	32 (36%)
Infiltration Cellular, Mononuclear Cell	1 (1%)	2 (2%)	1 (1%)	
Infiltration Cellular, Polymorphonuclear		1 (1%)		

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

Experiment Number: 20105 - 78

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: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/24/2017

Time Report Requested: 10:54:40

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
Inflammation, Focal	4 (4%)	2 (2%)		
Inflammation, Acute			1 (1%)	
Inflammation, Chronic Active	1 (1%)			
Mixed Cell Focus	5 (6%)	1 (1%)		1 (1%)
Necrosis	6 (7%)	5 (6%)	6 (7%)	3 (3%)
Artery, Inflammation, Chronic			1 (1%)	
Bile Duct, Cyst		1 (1%)	1 (1%)	
Centrilobular, Hepatocyte, Hypertrophy				1 (1%)
Hepatocyte, Fatty Change, Focal	3 (3%)		1 (1%)	
Hepatocyte, Hyperplasia			1 (1%)	
Hepatocyte, Hypertrophy			1 (1%)	
Hepatocyte, Inclusion Body Intracytoplasmic				1 (1%)
Hepatocyte, Vacuolization Cytoplasmic			4 (4%)	1 (1%)
Kupffer Cell, Hyperplasia	1 (1%)			
Mesentery	(29)	(24)	(32)	(30)
Artery, Inflammation, Chronic		2 (8%)		
Fat, Infiltration Cellular, Lymphocyte	2 (7%)	1 (4%)		
Fat, Inflammation, Granulomatous		1 (4%)		
Fat, Inflammation, Chronic Active	1 (3%)			
Fat, Mineral		1 (4%)	1 (3%)	
Fat, Necrosis	25 (86%)	19 (79%)	27 (84%)	27 (90%)
Oral Mucosa	(0)	(0)	(2)	(0)
Pancreas	(87)	(88)	(89)	(86)
Degeneration				1 (1%)
Infiltration Cellular, Lipocyte		1 (1%)		1 (1%)
Infiltration Cellular, Histiocyte			1 (1%)	
Infiltration Cellular, Lymphocyte	27 (31%)	26 (30%)	30 (34%)	24 (28%)
Inflammation, Suppurative				1 (1%)
Inflammation, Chronic Active	1 (1%)			
Necrosis				1 (1%)
Acinus, Atrophy			2 (2%)	1 (1%)
Duct, Cyst	1 (1%)	1 (1%)	2 (2%)	3 (3%)
Duct, Inflammation, Chronic Active				1 (1%)
Salivary Glands	(89)	(89)	(90)	(90)
Atrophy	1 (1%)			
Infiltration Cellular, Lymphocyte	59 (66%)	54 (61%)	55 (61%)	62 (69%)

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Experiment Number: 20105 - 78

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Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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Lab: IIT

B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Inflammation, Acute Mineral		1 (1%)		
Arteriole, Inflammation, Chronic		1 (1%)	1 (1%)	
Stomach, Forestomach	(86)	(89)	(90)	(85)
Cyst			1 (1%)	
Hyperkeratosis			1 (1%)	
Ulcer		1 (1%)		
Epithelium, Hyperplasia, Focal			2 (2%)	
Stomach, Glandular	(85)	(87)	(85)	(85)
Cyst	3 (4%)	3 (3%)	4 (5%)	
Infiltration Cellular, Lymphocyte			1 (1%)	2 (2%)
Ulcer			1 (1%)	
Tongue	(0)	(0)	(1)	(0)
Tooth	(0)	(0)	(1)	(0)

CARDIOVASCULAR SYSTEM

Aorta	(84)	(88)	(90)	(89)
Degeneration				1 (1%)
Inflammation, Chronic Active	1 (1%)			
Blood Vessel	(0)	(0)	(2)	(0)
Heart	(90)	(90)	(90)	(90)
Bacteria	1 (1%)	1 (1%)	2 (2%)	
Cardiomyopathy	3 (3%)	1 (1%)	3 (3%)	3 (3%)
Thrombus	3 (3%)	1 (1%)	2 (2%)	
Artery, Inflammation, Chronic Active		4 (4%)		1 (1%)
Endocardium, Hyperplasia			1 (1%)	
Epicardium, Infiltration Cellular, Mixed Cell	1 (1%)			
Epicardium, Infiltration Cellular, Mononuclear Cell	1 (1%)			
Myocardium, Fibrosis	1 (1%)			
Myocardium, Infiltration Cellular, Lymphocyte			1 (1%)	2 (2%)
Myocardium, Inflammation, Acute		1 (1%)	2 (2%)	
Myocardium, Inflammation, Chronic Active	1 (1%)			
Myocardium, Mineral	4 (4%)			1 (1%)

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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 (1%)			
Valve, Infiltration Cellular, Lymphocyte	1 (1%)			
Valve, Inflammation, Chronic			1 (1%)	
Valve, Thrombus	1 (1%)			
ENDOCRINE SYSTEM				
Adrenal Cortex	(84)	(88)	(90)	(90)
Accessory Adrenal Cortical Nodule		1 (1%)	1 (1%)	1 (1%)
Angiectasis	1 (1%)			
Hemorrhage	1 (1%)		3 (3%)	
Mineral	1 (1%)			
Vacuolization Cytoplasmic		2 (2%)		
Bilateral, Extramedullary Hematopoiesis	1 (1%)			
Bilateral, Hyperplasia, Focal		1 (1%)		
Bilateral, Vacuolization Cytoplasmic		3 (3%)	1 (1%)	1 (1%)
Subcapsular, Hyperplasia	81 (96%)	85 (97%)	88 (98%)	86 (96%)
Adrenal Medulla	(83)	(84)	(86)	(87)
Hemorrhage	2 (2%)		1 (1%)	
Hyperplasia			2 (2%)	
Mineral	1 (1%)			
Islets, Pancreatic	(87)	(88)	(90)	(86)
Hyperplasia	1 (1%)	3 (3%)	1 (1%)	
Infiltration Cellular, Lymphocyte	3 (3%)	2 (2%)	2 (2%)	3 (3%)
Parathyroid Gland	(60)	(57)	(64)	(62)
Cyst	1 (2%)			
Infiltration Cellular, Lymphocyte			1 (2%)	1 (2%)
Pituitary Gland	(80)	(80)	(84)	(84)
Pars Distalis, Angiectasis	2 (3%)	7 (9%)	6 (7%)	5 (6%)
Pars Distalis, Cyst	1 (1%)	3 (4%)		1 (1%)
Pars Distalis, Cytoplasmic Alteration				1 (1%)
Pars Distalis, Hyperplasia, Focal	2 (3%)	4 (5%)	5 (6%)	4 (5%)
Thyroid Gland	(86)	(89)	(86)	(86)
Infiltration Cellular, Lymphocyte	1 (1%)	6 (7%)	6 (7%)	3 (3%)
Ultimobranchial Cyst			2 (2%)	

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Follicle, Cyst	1 (1%)	1 (1%)		
Follicular Cell, Hyperplasia, Focal		4 (4%)		
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 (4%)			1 (1%)
Duct, Cyst	1 (1%)		1 (1%)	
Ovary	(75)	(86)	(82)	(80)
Angiectasis		1 (1%)	1 (1%)	2 (3%)
Cyst	9 (12%)	13 (15%)	8 (10%)	7 (9%)
Cyst, Squamous			1 (1%)	
Hemorrhage	1 (1%)	2 (2%)	1 (1%)	
Hyperplasia, Cystic, Papillary		1 (1%)	1 (1%)	
Hyperplasia, Tubulostromal				1 (1%)
Infiltration Cellular, Lymphocyte				1 (1%)
Mineral	1 (1%)			
Thrombus			1 (1%)	1 (1%)
Bursa, Cyst				1 (1%)
Follicle, Cyst	9 (12%)	11 (13%)	6 (7%)	7 (9%)
Granulosa Cell, Hyperplasia		2 (2%)		
Paraovarian Tissue, Cyst				1 (1%)
Oviduct	(0)	(0)	(1)	(0)
Uterus	(89)	(90)	(90)	(89)
Angiectasis	1 (1%)	6 (7%)	5 (6%)	3 (3%)
Congestion		1 (1%)		
Dilation	35 (39%)	29 (32%)	30 (33%)	26 (29%)
Hemorrhage	1 (1%)	1 (1%)	1 (1%)	
Infiltration Cellular, Lymphocyte			1 (1%)	
Inflammation, Acute		1 (1%)		

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Thrombus	1 (1%)			
Endometrium, Cyst	3 (3%)			1 (1%)
Endometrium, Hyperplasia		1 (1%)		1 (1%)
Endometrium, Hyperplasia, Cystic	68 (76%)	75 (83%)	72 (80%)	68 (76%)
Endometrium, Metaplasia, Squamous	1 (1%)			
Vagina	(0)	(0)	(1)	(0)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(90)	(89)	(89)	(90)
Hypercellularity	7 (8%)	8 (9%)	4 (4%)	4 (4%)
Hypocellularity	1 (1%)	1 (1%)		
Myeloid Cell, Hypercellularity	1 (1%)			
Lymph Node	(18)	(20)	(16)	(14)
Hemorrhage			1 (6%)	1 (7%)
Hyperplasia, Lymphoid	1 (6%)			
Axillary, Infiltration Cellular, Mixed Cell	1 (6%)			
Axillary, Pigment	1 (6%)			
Bronchial, Hyperplasia, Lymphoid	2 (11%)			4 (29%)
Iliac, Erythrophagocytosis		1 (5%)		
Iliac, Hemorrhage	1 (6%)		2 (13%)	
Iliac, Hyperplasia, Lymphoid	4 (22%)	2 (10%)	6 (38%)	2 (14%)
Iliac, Infiltration Cellular, Histiocyte		1 (5%)	1 (6%)	
Iliac, Infiltration Cellular, Mixed Cell	1 (6%)	1 (5%)	4 (25%)	
Iliac, Pigment			4 (25%)	
Lumbar, Hyperplasia, Lymphoid		1 (5%)		
Lumbar, Infiltration Cellular, Mixed Cell	1 (6%)			
Mediastinal, Hyperplasia, Lymphoid	1 (6%)	2 (10%)		
Mediastinal, Infiltration Cellular, Plasma Cell		1 (5%)		
Pancreatic, Hyperplasia, Lymphoid	1 (6%)			
Renal, Erythrophagocytosis			1 (6%)	
Renal, Hemorrhage	1 (6%)			
Renal, Hyperplasia, Lymphoid	3 (17%)	2 (10%)	1 (6%)	
Lymph Node, Mandibular	(76)	(77)	(81)	(83)
Hemorrhage	3 (4%)	2 (3%)	1 (1%)	1 (1%)

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Hyperplasia, Lymphoid	1 (1%)	1 (1%)	1 (1%)	4 (5%)
Infiltration Cellular, Histiocyte			2 (2%)	
Infiltration Cellular, Mixed Cell	1 (1%)			
Lymph Node, Mesenteric	(71)	(84)	(80)	(83)
Angiectasis		1 (1%)		
Erythrophagocytosis	1 (1%)		1 (1%)	
Hemorrhage	1 (1%)	4 (5%)	2 (3%)	1 (1%)
Hyperplasia, Lymphoid	1 (1%)	10 (12%)	3 (4%)	3 (4%)
Infiltration Cellular, Histiocyte	3 (4%)	8 (10%)	6 (8%)	4 (5%)
Infiltration Cellular, Plasma Cell		2 (2%)		
Spleen	(86)	(87)	(89)	(87)
Atrophy	1 (1%)			
Extramedullary Hematopoiesis	20 (23%)	15 (17%)	19 (21%)	11 (13%)
Hyperplasia, Lymphoid	11 (13%)	7 (8%)	13 (15%)	10 (11%)
Capsule, Fibrosis	1 (1%)			
Capsule, Inflammation, Chronic Active			1 (1%)	
Thymus	(85)	(80)	(84)	(86)
Atrophy	5 (6%)	3 (4%)	8 (10%)	1 (1%)
Cyst	2 (2%)	2 (3%)	7 (8%)	2 (2%)
Hemorrhage			1 (1%)	1 (1%)
Hyperplasia, Lymphoid	1 (1%)		2 (2%)	2 (2%)
Infiltration Cellular, Histiocyte		1 (1%)		

INTEGUMENTARY SYSTEM

Mammary Gland	(85)	(88)	(88)	(84)
Hyperplasia, Focal	1 (1%)		1 (1%)	
Hyperplasia, Diffuse	1 (1%)	1 (1%)	1 (1%)	1 (1%)
Duct, Dilation	1 (1%)	1 (1%)	2 (2%)	1 (1%)
Skin	(90)	(90)	(90)	(90)
Inflammation, Chronic		1 (1%)		
Ulcer	2 (2%)	2 (2%)	2 (2%)	2 (2%)
Epidermis, Hyperplasia, Multifocal				1 (1%)
Hair Follicle, Atrophy	2 (2%)	1 (1%)	4 (4%)	8 (9%)
Subcutaneous Tissue, Inflammation, Chronic			1 (1%)	

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
MUSCULOSKELETAL SYSTEM				
Bone	(90)	(90)	(89)	(90)
Decreased Bone		1 (1%)		
Fibro-Osseous Lesion	11 (12%)	6 (7%)	4 (4%)	3 (3%)
Increased Bone		1 (1%)		1 (1%)
Periosteum, Vertebra, Inflammation, Granulomatous		1 (1%)		
Skeletal Muscle	(89)	(90)	(90)	(90)
Degeneration			2 (2%)	1 (1%)
Infiltration Cellular, Lymphocyte	16 (18%)	5 (6%)	10 (11%)	16 (18%)
Inflammation, Chronic Active				1 (1%)
Mineral	1 (1%)			
Arteriole, Inflammation, Chronic		2 (2%)		
NERVOUS SYSTEM				
Brain	(87)	(90)	(90)	(90)
Cyst, Squamous			2 (2%)	
Hemorrhage	2 (2%)		3 (3%)	
Hydrocephalus	1 (1%)			
Inflammation, Acute	1 (1%)			
Inflammation, Chronic		1 (1%)		
Mineral	80 (92%)	78 (87%)	77 (86%)	78 (87%)
Necrosis	1 (1%)	1 (1%)	1 (1%)	1 (1%)
Artery, Meninges, Inflammation, Chronic Active		5 (6%)	3 (3%)	2 (2%)
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 (14%)	6 (7%)	7 (8%)	6 (7%)
Spinal Cord	(90)	(90)	(90)	(90)
Cyst, Squamous		1 (1%)		
Necrosis		3 (3%)		

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Artery, Meninges, Inflammation, Chronic Active		5 (6%)	1 (1%)	2 (2%)

RESPIRATORY SYSTEM

Larynx	(0)	(0)	(2)	(0)
Lung	(90)	(90)	(90)	(90)
Congestion		2 (2%)	2 (2%)	1 (1%)
Hemorrhage	4 (4%)	1 (1%)	3 (3%)	3 (3%)
Hyperplasia, Lymphoid		1 (1%)	1 (1%)	
Infiltration Cellular, Histiocyte	1 (1%)	2 (2%)		
Infiltration Cellular, Lymphocyte	3 (3%)	1 (1%)	2 (2%)	3 (3%)
Infiltration Cellular, Mononuclear Cell		1 (1%)		
Inflammation, Acute	1 (1%)			
Inflammation, Chronic	1 (1%)			
Inflammation, Chronic Active				1 (1%)
Alveolar Epithelium, Hyperplasia, Focal	1 (1%)	1 (1%)	1 (1%)	3 (3%)
Serosa, Inflammation, Chronic		1 (1%)		
Mediastinum	(2)	(0)	(0)	(0)
Nose	(89)	(90)	(90)	(90)
Inflammation, Acute	1 (1%)			
Respiratory Epithelium, Accumulation, Hyaline Droplet		1 (1%)		
Respiratory Epithelium, Hyperplasia			1 (1%)	
Vomeranasal Organ, Cyst				1 (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 (1%)	
Anterior Chamber, Inflammation, Acute				1 (1%)
Bilateral, Retina, Hemorrhage			1 (1%)	
Cornea, Inflammation, Acute			1 (1%)	1 (1%)

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Cornea, Inflammation, Chronic			2 (2%)	
Cornea, Inflammation, Chronic Active		1 (1%)		
Cornea, Necrosis		1 (1%)	1 (1%)	
Harderian Gland	(89)	(90)	(90)	(87)
Hyperplasia, Focal			1 (1%)	
Infiltration Cellular, Lymphocyte	58 (65%)	68 (76%)	69 (77%)	63 (72%)
Inflammation, Chronic Active				1 (1%)
Lacrimal Gland	(0)	(1)	(2)	(0)
Zymbal's Gland	(0)	(0)	(1)	(0)

URINARY SYSTEM

Kidney	(89)	(87)	(89)	(88)
Cyst	1 (1%)			
Glomerulopathy, Hyaline		2 (2%)		
Hemorrhage				1 (1%)
Infarct	14 (16%)	19 (22%)	20 (22%)	14 (16%)
Inflammation, Acute			1 (1%)	
Metaplasia, Osseous	2 (2%)	2 (2%)	2 (2%)	2 (2%)
Nephropathy, Chronic Progressive	8 (9%)	15 (17%)	19 (21%)	14 (16%)
Bilateral, Infarct	1 (1%)			
Interstitial, Infiltration Cellular, Lymphocyte	63 (71%)	60 (69%)	65 (73%)	56 (64%)
Papilla, Mineral		2 (2%)	1 (1%)	1 (1%)
Pelvis, Dilatation	1 (1%)			
Pelvis, Mineral				1 (1%)
Pelvis, Necrosis			1 (1%)	
Renal Tubule, Dilation	1 (1%)		1 (1%)	1 (1%)
Renal Tubule, Hyaline Droplet		1 (1%)		
Renal Tubule, Mineral	1 (1%)		1 (1%)	
Renal Tubule, Vacuolization Cytoplasmic		1 (1%)		
Ureter	(0)	(0)	(1)	(0)
Urethra	(0)	(0)	(1)	(0)
Urinary Bladder	(86)	(87)	(86)	(86)
Angiectasis				2 (2%)
Infiltration Cellular, Lymphocyte	62 (72%)	67 (77%)	65 (76%)	68 (79%)

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B6C3F1 MICE FEMALE	0 W/kg	2.5 W/kg	5 W/kg	10 W/kg
Inflammation, Acute			1 (1%)	
Arteriole, Inflammation, Chronic		1 (1%)		
Urothelium, Hyperplasia			1 (1%)	

*** END OF REPORT ***

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