

TDMS No. 93025 - 06

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

Date Report Requested: 05/22/2008

Test Type: CHRONIC

Tetralin

Time Report Requested: 06:34:08

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 119-64-2

First Dose M/F: 06/23/03 / 06/23/03

Species/Strain: MICE/B6C3F1

Lab: BNW

C Number: C93025

Lock Date: 03/22/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.0.0

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	9	8	7	11
Natural Death	5	7	5	3
Survivors				
Terminal Sacrifice	36	35	38	36
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Gallbladder	(43)	(41)	(43)	(41)
Degeneration, Hyaline				1 [3.0]
Infiltration Cellular, Polymorphonuclear		1 [2.0]		
Intestine Large, Cecum	(47)	(45)	(45)	(47)
Hemorrhage		1 [3.0]		
Intestine Small, Duodenum	(45)	(45)	(45)	(47)
Necrosis	1 [1.0]			
Intestine Small, Ileum	(47)	(44)	(45)	(47)
Infiltration Cellular, Mixed Cell	2 [2.0]			
Peyer's Patch, Inflammation, Granulomatous		1 [3.0]		
Intestine Small, Jejunum	(45)	(44)	(45)	(47)
Inflammation, Suppurative	1 [3.0]			
Liver	(49)	(50)	(50)	(50)
Angiectasis	2 [1.0]	1 [1.0]		
Basophilic Focus	4 [2.0]	4 [2.3]	4 [2.3]	1 [3.0]
Clear Cell Focus	16 [2.1]	16 [2.1]	14 [2.1]	18 [2.2]
Eosinophilic Focus	1 [2.0]	1 [2.0]	4 [2.3]	3 [2.0]
Hepatodiaphragmatic Nodule				1
Infarct		1 [4.0]		
Mixed Cell Focus	1 [2.0]	1 [2.0]	1 [3.0]	
Necrosis	2 [3.0]	2 [3.5]		3 [2.0]
Tension Lipidosis	2 [1.0]	2 [1.0]	3 [2.0]	3 [1.3]
Vacuolization Cytoplasmic				1 [4.0]
Mesentery	(13)	(4)	(10)	(2)
Artery, Inflammation				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)

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Fat, Necrosis	13 [2.0]	4 [2.0]	10 [2.0]	1 [2.0]
Pancreas	(49)	(49)	(50)	(50)
Basophilic Focus	1 [2.0]		1 [1.0]	
Hemorrhage			1 [4.0]	
Inflammation, Granulomatous		1 [2.0]		
Inflammation, Acute			1 [3.0]	
Stomach, Forestomach	(49)	(48)	(50)	(50)
Hyperplasia, Squamous	1 [3.0]	1 [2.0]	4 [2.8]	4 [2.8]
Infiltration Cellular, Mast Cell	1 [2.0]			
Inflammation		1 [2.0]	4 [2.3]	3 [2.3]
Ulcer	1 [3.0]		3 [2.3]	3 [3.0]
Stomach, Glandular	(49)	(47)	(48)	(48)
Necrosis	3 [1.3]	2 [1.5]		
Artery, Inflammation, Chronic Active	1 [3.0]		1 [4.0]	
Tooth	(7)	(6)	(7)	(1)
Malformation	6 [2.7]	6 [2.0]	7 [2.0]	1 [2.0]
CARDIOVASCULAR SYSTEM				
Blood Vessel	(0)	(0)	(0)	(1)
Aorta, Mineralization				1 [2.0]
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	6 [1.0]	2 [1.0]	5 [1.2]	5 [1.2]
Inflammation, Suppurative				1 [2.0]
Mineralization		1 [1.0]		2 [1.0]
Thrombosis		1 [3.0]		
Artery, Inflammation, Chronic Active			3 [2.0]	
ENDOCRINE SYSTEM				
Adrenal Cortex	(49)	(49)	(50)	(50)
Atrophy	2 [3.0]			
Hyperplasia	17 [2.1]	14 [2.0]	10 [2.0]	9 [1.9]
Hypertrophy	24 [2.0]	21 [2.1]	16 [2.0]	18 [1.9]
Necrosis				1 [3.0]
Capsule, Hyperplasia	1 [1.0]			
Adrenal Medulla	(47)	(49)	(49)	(50)
Hyperplasia	1 [2.0]	1 [3.0]		3 [2.0]
Islets, Pancreatic	(49)	(48)	(50)	(50)

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

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Lab: BNW

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Hyperplasia	2 [2.0]	2 [2.5]	3 [2.0]	
Pituitary Gland	(50)	(49)	(48)	(49)
Pars Distalis, Hyperplasia		1 [2.0]		
Thyroid Gland	(49)	(49)	(49)	(50)
Follicle, Cyst				1 [4.0]
Follicular Cell, Hyperplasia			1 [1.0]	1 [1.0]
GENERAL BODY SYSTEM				
Peritoneum	(0)	(1)	(0)	(0)
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 [4.0]			2 [3.0]
Preputial Gland	(50)	(50)	(49)	(50)
Ectasia	1 [3.0]			
Prostate	(49)	(48)	(49)	(49)
Inflammation, Chronic Active			1 [3.0]	
Seminal Vesicle	(49)	(47)	(48)	(48)
Inflammation, Chronic Active	1 [4.0]			
Testes	(50)	(50)	(50)	(50)
Atrophy			2 [3.0]	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(49)	(50)	(49)
Angiectasis	1 [2.0]			
Lymph Node	(1)	(0)	(0)	(0)
Lymph Node, Bronchial	(35)	(30)	(22)	(27)
Lymph Node, Mandibular	(24)	(26)	(28)	(25)
Lymph Node, Mediastinal	(34)	(36)	(34)	(33)
Lymph Node, Mesenteric	(47)	(48)	(48)	(48)
Hyperplasia, Lymphoid		1 [3.0]		
Infiltration Cellular, Mixed Cell	2 [3.0]			
Infiltration Cellular, Plasma Cell	2 [3.0]			
Spleen	(49)	(49)	(49)	(49)
Depletion Cellular	1 [4.0]			

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B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Hematopoietic Cell Proliferation Hyperplasia, Lymphoid Thymus	5 [2.8] (47)	5 [3.0] 1 [3.0] (40)	2 [3.0] (45)	5 [2.6] (43)
INTEGUMENTARY SYSTEM				
Skin Hyperplasia, Squamous Inflammation, Chronic Active Metaplasia, Osseous	(50) 3 [3.3]	(49) 4 [3.0] 1 [3.0]	(50) 7 [3.7]	(50) 1 [1.0] 6 [3.2]
MUSCULOSKELETAL SYSTEM				
Bone Hyperostosis Skeletal Muscle	(50) (0)	(50) 1 [2.0] (1)	(50) (0)	(49) (0)
NERVOUS SYSTEM				
Brain Inflammation, Acute Meninges, Infiltration Cellular, Mononuclear Cell Spinal Cord Demyelination, Focal Gliosis	(50) 1 [2.0]	(50) (0)	(50) 1 [2.0] (0)	(50) (0)
RESPIRATORY SYSTEM				
Larynx Inflammation, Acute Squamous Epithelium, Polyp, Inflammatory Lung Fibrosis Inflammation, Chronic Active Thrombosis Alveolar Epithelium, Hyperplasia	(50) 1 [1.0]	(50) (50) 1 [3.0]	(50) (50) 1 [1.0] 8 [1.9]	(50) 1 [2.0] (50) 1 [2.0] 8 [1.3]

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B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Alveolar Epithelium, Metaplasia, Squamous		1 [1.0]		
Alveolus, Infiltration Cellular, Histiocyte Arteriole, Mineralization	1 [1.0]		2 [1.0]	1 [4.0]
Bronchiole, Hyperplasia	4 [1.0]	2 [3.0]	1 [2.0]	3 [2.3]
Nose	(49)	(49)	(50)	(50)
Inflammation				1 [2.0]
Inflammation, Suppurative	2 [1.5]	26 [1.0]	45 [1.3]	45 [1.6]
Glands, Olfactory Epithelium, Hyperplasia	14 [1.0]	49 [2.1]	50 [3.0]	49 [3.1]
Glands, Olfactory Epithelium, Inflammation				1 [3.0]
Olfactory Epithelium, Atrophy	2 [1.0]	49 [2.6]	50 [3.3]	50 [3.8]
Olfactory Epithelium, Metaplasia, Respiratory	2 [1.0]	47 [1.6]	50 [2.3]	49 [2.4]
Trachea	(49)	(48)	(50)	(50)
Inflammation, Suppurative				1 [1.0]
Mineralization			1 [1.0]	
SPECIAL SENSES SYSTEM				
Eye	(48)	(46)	(47)	(47)
Cataract	1 [4.0]	1 [3.0]	1 [2.0]	
Degeneration				1 [4.0]
Inflammation, Suppurative				1 [2.0]
Cornea, Inflammation, Chronic Active	1 [3.0]	3 [2.0]		
Cornea, Mineralization			1 [1.0]	2 [1.5]
Harderian Gland	(49)	(47)	(50)	(50)
Hyperplasia	3 [2.0]	1 [1.0]	2 [1.5]	2 [2.0]
URINARY SYSTEM				
Kidney	(49)	(49)	(50)	(49)
Cyst		1 [2.0]		1 [2.0]
Hemorrhage		1 [3.0]		
Infarct		2 [2.0]	1 [2.0]	
Metaplasia, Osseous		1 [1.0]	2 [1.0]	1 [1.0]
Mineralization				1 [2.0]
Nephropathy	46 [1.4]	47 [1.5]	48 [1.3]	47 [1.4]

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Lab: BNW

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Thrombosis		1 [2.0]		
Artery, Inflammation, Chronic Active		1 [3.0]		
Pelvis, Inflammation, Chronic Active		1 [2.0]		
Renal Tubule, Hyperplasia	1 [1.0]	4 [1.0]	1 [2.0]	4 [1.0]
Urinary Bladder	(49)	(47)	(50)	(48)
Transitional Epithelium, Eosinophilic Granules, Cytoplasmic		47 [1.0]	50 [1.0]	48 [1.0]

*** END OF MALE ***

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B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	17	9	6	6
Natural Death	2	3	2	1
Survivors				
Terminal Sacrifice	31	38	42	43
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 [4.0]			
Gallbladder	(42)	(43)	(44)	(47)
Infiltration Cellular, Polymorphonuclear				1 [2.0]
Intestine Large, Colon	(49)	(49)	(49)	(48)
Intestine Small, Duodenum	(48)	(48)	(48)	(49)
Necrosis	1 [1.0]			
Intestine Small, Ileum	(48)	(48)	(49)	(49)
Infiltration Cellular, Polymorphonuclear	1 [2.0]			
Intestine Small, Jejunum	(48)	(48)	(48)	(49)
Inflammation, Acute		1 [2.0]		
Liver	(50)	(50)	(50)	(50)
Angiectasis				2 [2.0]
Basophilic Focus	3 [2.0]			1 [2.0]
Clear Cell Focus	2 [2.5]	2 [2.0]	2 [2.5]	2 [3.0]
Eosinophilic Focus	3 [2.0]	2 [2.5]	1 [4.0]	1 [2.0]
Hematopoietic Cell Proliferation	1 [2.0]			
Hepatodiaphragmatic Nodule				1
Infarct	1 [2.0]			
Inflammation, Chronic			1 [2.0]	1 [2.0]
Mitotic Alteration			1 [2.0]	1 [1.0]
Mixed Cell Focus				1 [2.0]
Necrosis	2 [2.5]			2 [2.5]
Tension Lipidosis	3 [1.7]	8 [1.5]	3 [1.3]	3 [1.7]
Mesentery	(16)	(17)	(15)	(10)
Fat, Hemorrhage		3 [1.7]	1 [2.0]	

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Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Fat, Necrosis	14 [2.0]	14 [2.1]	13 [2.0]	10 [2.1]
Pancreas	(50)	(50)	(50)	(50)
Atrophy		1 [3.0]	1 [3.0]	1 [1.0]
Inflammation, Acute				1 [2.0]
Inflammation, Chronic Active	1 [2.0]			
Necrosis			1 [2.0]	
Acinus, Hypertrophy	1 [2.0]			
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy				1 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Hyperplasia, Squamous	2 [2.0]	3 [2.7]		2 [2.0]
Inflammation, Suppurative	1 [2.0]			
Ulcer	1 [2.0]	2 [2.5]	1 [3.0]	1 [3.0]
Artery, Inflammation, Chronic Active	1 [2.0]			
Stomach, Glandular	(49)	(49)	(49)	(49)
Mineralization	1 [2.0]			
Tooth	(1)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(2)	(1)	(1)	(0)
Inflammation, Chronic Active	1 [4.0]			
Adventitia, Metaplasia, Respiratory		1 [2.0]		
Aorta, Mineralization	1 [2.0]		1 [2.0]	
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	6 [1.0]	5 [1.4]	1 [1.0]	4 [1.0]
Inflammation, Suppurative	1 [1.0]			
Mineralization	1 [2.0]		1 [2.0]	1 [2.0]
Thrombosis			1 [3.0]	
Artery, Inflammation, Chronic Active	1 [2.0]		1 [2.0]	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	5 [2.0]	3 [2.0]	12 [2.1]	5 [2.0]
Hypertrophy	5 [2.0]	1 [2.0]	2 [2.0]	3 [2.7]
Necrosis	1 [2.0]			
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	2 [2.0]	2 [2.0]	1 [2.0]	5 [2.2]

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Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	2 [2.0]			
Pituitary Gland	(49)	(50)	(50)	(50)
Hemorrhage		1 [2.0]		
Pars Distalis, Hyperplasia	9 [2.0]	11 [2.1]	10 [2.2]	7 [2.1]
Thyroid Gland	(50)	(50)	(49)	(49)
Inflammation, Chronic Active	1 [2.0]			
Follicular Cell, Hyperplasia	1 [2.0]			
GENERAL BODY SYSTEM				
Peritoneum	(0)	(1)	(0)	(0)
GENITAL SYSTEM				
Ovary	(50)	(50)	(50)	(49)
Angiectasis	1 [4.0]		2 [3.0]	1 [2.0]
Cyst	10 [2.2]	11 [2.5]	6 [2.5]	11 [2.8]
Hemorrhage		1 [4.0]		
Thrombosis			1 [4.0]	
Uterus	(50)	(50)	(50)	(50)
Angiectasis	1 [3.0]	1 [2.0]	1 [3.0]	1 [2.0]
Inflammation, Suppurative		1 [4.0]		
Endometrium, Hyperplasia, Cystic	46 [2.6]	50 [2.6]	47 [3.1]	48 [3.4]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(49)
Atrophy		1 [1.0]		
Lymph Node	(7)	(7)	(3)	(2)
Angiectasis				1 [3.0]
Hemorrhage		1 [3.0]		
Iliac, Angiectasis			1 [3.0]	
Lumbar, Angiectasis			1 [4.0]	
Lumbar, Ectasia	1 [3.0]	2 [3.0]		
Lumbar, Hyperplasia, Lymphoid	2 [2.5]			
Renal, Ectasia				1 [3.0]
Renal, Hyperplasia, Lymphoid	2 [2.5]			

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Lymph Node, Bronchial	(33)	(32)	(28)	(37)
Infiltration Cellular, Mixed Cell	1 [3.0]			
Lymph Node, Mandibular	(33)	(34)	(30)	(31)
Hyperplasia, Lymphoid	1 [2.0]			
Necrosis, Lymphoid	1 [3.0]			
Lymph Node, Mediastinal	(35)	(42)	(38)	(35)
Infiltration Cellular, Mixed Cell	1 [3.0]			
Lymph Node, Mesenteric	(49)	(48)	(49)	(50)
Angiectasis			1 [3.0]	
Ectasia	1 [3.0]		1 [2.0]	2 [3.5]
Infiltration Cellular, Mixed Cell	1 [3.0]			
Necrosis, Lymphoid	1 [3.0]			
Spleen	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	5 [2.2]	3 [2.3]	6 [2.5]	4 [2.8]
Hyperplasia, Lymphoid	3 [3.0]		2 [2.0]	2 [2.5]
Necrosis, Lymphoid	1 [3.0]			
Thymus	(48)	(49)	(49)	(47)
Inflammation, Granulomatous			1 [2.0]	
Necrosis, Lymphoid	1 [3.0]			
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(50)
Inflammation, Chronic	1 [2.0]			
Skin	(50)	(50)	(50)	(50)
Infiltration Cellular, Mixed Cell			1 [2.0]	
Inflammation, Chronic Active	3 [2.3]	3 [4.0]	1 [4.0]	1 [3.0]
Hair Follicle, Inflammation, Chronic	1 [2.0]			
Subcutaneous Tissue, Inflammation, Granulomatous				1 [2.0]
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(1)	(0)	(1)	(1)
Inflammation, Chronic Active			1 [2.0]	
NERVOUS SYSTEM				

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B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Brain	(50)	(50)	(50)	(50)
Gliosis	1 [1.0]			
Inflammation, Chronic	1 [3.0]			
Necrosis	1 [2.0]		1 [2.0]	
Meninges, Infiltration Cellular, Mononuclear Cell	1 [2.0]			
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(49)
Mineralization			1 [3.0]	
Lung	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 [3.0]			
Thrombosis				1 [2.0]
Alveolar Epithelium, Hyperplasia	4 [1.3]	6 [1.5]	3 [1.0]	6 [1.3]
Alveolar Epithelium, Metaplasia, Squamous			1 [2.0]	
Alveolus, Infiltration Cellular, Histiocyte				2 [3.0]
Bronchiole, Hyperplasia	1 [3.0]	1 [3.0]		1 [3.0]
Mediastinum, Hemorrhage		1 [2.0]		
Nose	(50)	(50)	(50)	(49)
Inflammation, Suppurative	3 [1.0]	28 [1.0]	48 [1.3]	46 [1.2]
Glands, Olfactory Epithelium, Hyperplasia	17 [1.0]	50 [2.1]	50 [3.0]	49 [3.0]
Olfactory Epithelium, Atrophy	1 [1.0]	50 [2.8]	50 [3.4]	49 [3.9]
Olfactory Epithelium, Metaplasia, Respiratory	1 [1.0]	49 [1.4]	50 [2.9]	49 [3.3]
Pleura	(1)	(0)	(0)	(0)
Trachea	(50)	(50)	(50)	(49)
Inflammation, Suppurative			1 [2.0]	
Mineralization			1 [3.0]	
SPECIAL SENSES SYSTEM				
Eye	(49)	(49)	(49)	(49)
Cataract	2 [2.5]	1 [1.0]	1 [2.0]	
Cornea, Hyperplasia, Squamous		1 [2.0]		1 [2.0]
Cornea, Inflammation, Chronic Active				1 [2.0]
Cornea, Mineralization		3 [1.0]	3 [1.0]	12 [1.1]

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

Tetralin

Time Report Requested: 06:34:08

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 119-64-2

First Dose M/F: 06/23/03 / 06/23/03

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Harderian Gland Hyperplasia	(50) 2 [2.5]	(50) 2 [2.0]	(49) 4 [2.3]	(49) 2 [1.5]
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Amyloid Deposition	1 [4.0]			
Infarct	1 [2.0]	1 [3.0]		
Metaplasia, Osseous Mineralization		3 [1.0]	4 [1.0] 1 [2.0]	2 [1.0]
Nephropathy	40 [1.1]	40 [1.0]	43 [1.1]	38 [1.1]
Artery, Inflammation, Chronic Active	1 [3.0]			
Urinary Bladder	(49)	(50)	(49)	(49)
Infiltration Cellular, Mixed Cell Transitional Epithelium, Eosinophilic Granules, Cytoplasmic		1 [2.0] 50 [1.0]	49 [1.0]	49 [1.0]

*** END OF REPORT ***