

Experiment Number: 20303 - 06

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

Date Report Requested: 03/26/2012

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 12:00:38

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/20/05 / 06/20/05

Species/Strain: MICE/B6C3F1

Lab: BNW

F2_M3

NTP Study Number: C20303
Lock Date: 05/19/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.6.0.0_007
PWG Approval Date: NONE

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
Disposition Summary				
Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	12	5	14	19
Natural Death	9	5	4	12
Survivors				
Moribund Sacrifice		1		
Natural Death				1
Terminal Sacrifice	29	39	32	18
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(42)	(45)	(47)	(41)
Intestine Large, Cecum	(47)	(48)	(48)	(40)
Artery, Inflammation				1 [2.0]
Intestine Large, Colon	(47)	(48)	(48)	(42)
Intestine Large, Rectum	(48)	(48)	(48)	(42)
Intestine Small, Duodenum	(44)	(47)	(47)	(38)
Necrosis	1 [3.0]		1 [1.0]	
Intestine Small, Ileum	(44)	(47)	(47)	(39)
Hyperplasia			1 [3.0]	
Intestine Small, Jejunum	(43)	(47)	(47)	(39)
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 [2.0]	1 [2.0]		
Basophilic Focus	2	4	2	7
Clear Cell Focus	16	11	10	8
Cyst			2 [2.5]	2 [4.0]
Degeneration, Cystic			1 [2.0]	1 [2.0]
Eosinophilic Focus	9	7	4	6
Fatty Change	1 [2.0]			
Infarct		1 [3.0]		
Mineralization				1 [2.0]
Mixed Cell Focus	2	2	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)

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
Necrosis	5 [2.6]	1 [3.0]	2 [3.0]	6 [2.5]
Thrombosis		1 [2.0]		
Mesentery	(6)	(9)	(6)	(3)
Fat, Necrosis	6 [2.3]	8 [2.0]	6 [2.3]	1 [2.0]
Pancreas	(50)	(49)	(50)	(48)
Artery, Inflammation, Chronic Active			1 [4.0]	
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(49)	(50)	(50)	(49)
Hyperplasia, Squamous	4 [2.0]	1 [2.0]	7 [2.3]	10 [2.0]
Inflammation, Chronic Active	2 [1.0]	2 [2.0]	3 [1.7]	7 [1.6]
Mineralization		1 [1.0]		
Necrosis	1 [2.0]	2 [1.5]	2 [2.0]	4 [1.8]
Ulcer	1 [2.0]	1 [2.0]		2 [2.0]
Artery, Inflammation, Chronic Active				1 [2.0]
Submucosa, Necrosis			1 [2.0]	
Stomach, Glandular	(48)	(49)	(49)	(48)
Inflammation, Acute		1 [1.0]		
Mineralization	2 [1.0]	1 [1.0]	1 [1.0]	1 [1.0]
Necrosis	4 [1.3]	3 [1.3]	3 [1.7]	5 [1.4]
Tongue	(0)	(0)	(1)	(0)
Angiectasis			1 [2.0]	
Tooth	(2)	(2)	(0)	(1)
Dysplasia	2 [3.0]	2 [3.5]		1 [4.0]

CARDIOVASCULAR SYSTEM

Blood Vessel	(0)	(0)	(1)	(3)
Thrombosis				1 [3.0]
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	11 [1.0]	10 [1.2]	12 [1.2]	13 [1.4]
Thrombosis			2 [2.5]	1 [3.0]
Artery, Inflammation, Chronic Active			1 [2.0]	2 [2.0]
Endothelium, Hyperplasia				1 [3.0]

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

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	5 [1.8]	6 [1.3]	5 [1.2]	3 [2.3]
Hypertrophy	18 [1.4]	11 [1.4]	12 [1.3]	10 [1.7]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia		3 [2.0]	2 [2.0]	3 [2.0]
Islets, Pancreatic	(50)	(49)	(49)	(49)
Hyperplasia	3 [2.3]	4 [2.5]	4 [2.0]	2 [2.0]
Parathyroid Gland	(26)	(22)	(26)	(24)
Cyst			2 [2.0]	1 [2.0]
Pituitary Gland	(49)	(49)	(50)	(46)
Pars Distalis, Hyperplasia	1 [1.0]	1 [2.0]	1 [1.0]	2 [1.0]
Thyroid Gland	(50)	(49)	(50)	(49)
Follicular Cell, Hyperplasia			1 [2.0]	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm		1 [2.0]	1 [2.0]	
Inflammation, Chronic	1 [2.0]		1 [2.0]	
Spermatocele	1 [1.0]			
Preputial Gland	(50)	(50)	(50)	(50)
Ectasia	1 [3.0]	1 [4.0]		
Inflammation, Suppurative	1 [3.0]			
Inflammation, Chronic Active	3 [2.3]	5 [2.4]	3 [2.0]	2 [1.5]
Prostate	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 [2.0]	1 [3.0]	1 [2.0]	1 [3.0]
Inflammation, Chronic Active			2 [2.0]	1 [2.0]
Artery, Inflammation, Chronic Active			1 [3.0]	1 [2.0]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
Seminal Vesicle	(50)	(50)	(50)	(50)
Dilatation				1 [3.0]
Inflammation, Suppurative		1 [3.0]		1 [4.0]
Testes	(50)	(50)	(50)	(50)
Atrophy		2 [2.5]		
Germinal Epithelium, Degeneration	2 [2.0]	5 [2.0]	3 [2.0]	1 [2.0]
Interstitial Cell, Hyperplasia		1 [2.0]		2 [2.0]

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Erythroid Cell, Depletion Cellular			1 [2.0]	
Lymph Node	(2)	(2)	(0)	(2)
Lumbar, Hyperplasia, Lymphoid				1 [3.0]
Lymph Node, Bronchial	(33)	(34)	(31)	(19)
Lymph Node, Mandibular	(17)	(29)	(19)	(25)
Hyperplasia	1 [2.0]			
Lymph Node, Mediastinal	(43)	(29)	(43)	(38)
Lymph Node, Mesenteric	(46)	(48)	(48)	(47)
Angiectasis				2 [2.5]
Inflammation, Granulomatous				2 [3.0]
Necrosis		1 [2.0]		
Artery, Inflammation, Chronic Active				1 [2.0]
Spleen	(50)	(49)	(50)	(50)
Hematopoietic Cell Proliferation	1 [3.0]	4 [3.8]	2 [3.0]	5 [2.8]
Hyperplasia, Lymphoid	1 [3.0]			
Lymphoid Follicle, Hyperplasia				1 [3.0]
Thymus	(39)	(37)	(38)	(26)
Cyst	1 [2.0]			
Necrosis	1 [3.0]			

INTEGUMENTARY SYSTEM

Mammary Gland	(1)	(2)	(0)	(1)
Skin	(50)	(50)	(50)	(50)

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
Inflammation, Chronic Active	1 [1.0]			
Necrosis	4 [2.5]	5 [2.8]	3 [2.7]	3 [2.0]
Epidermis, Hyperplasia, Squamous			1 [1.0]	1 [2.0]
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Fibrous Osteodystrophy				1
Hyperostosis	1 [2.0]			
Cartilage, Degeneration		1 [2.0]		
Skeletal Muscle	(1)	(1)	(2)	(2)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Hemorrhage				1 [2.0]
Artery, Inflammation, Chronic Active				1 [2.0]
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(49)
Foreign Body	1			2
Inflammation				1 [1.0]
Inflammation, Suppurative	1 [2.0]	1 [1.0]		2 [1.0]
Inflammation, Chronic Active	1 [2.0]		1 [1.0]	
Metaplasia, Squamous	1 [2.0]			1 [2.0]
Artery, Inflammation, Chronic Active				1 [2.0]
Squamous Epithelium, Necrosis		1 [1.0]		1 [1.0]
Lung	(50)	(50)	(50)	(50)
Hemorrhage	1 [3.0]		1 [2.0]	
Inflammation, Chronic Active	2 [1.5]	1 [2.0]	3 [1.0]	1 [2.0]
Thrombosis		1 [2.0]		
Alveolar Epithelium, Hyperplasia	3 [1.3]	7 [1.3]	4 [1.8]	6 [2.3]
Alveolus, Infiltration Cellular, Histiocyte	4 [1.0]		3 [1.3]	4 [2.3]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
Serosa, Hyperplasia				1 [2.0]
Nose	(50)	(50)	(49)	(49)
Foreign Body	2		2	4
Hemorrhage			1 [2.0]	
Hyperostosis	1 [2.0]	27 [1.3]	45 [2.1]	48 [2.2]
Inflammation, Suppurative	3 [1.3]	2 [2.0]	4 [1.8]	7 [1.3]
Inflammation, Chronic Active		1 [2.0]		
Polyp, Inflammatory				1 [3.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	2 [1.0]	5 [1.0]	13 [1.3]	11 [1.3]
Olfactory Epithelium, Atrophy	1 [2.0]	2 [1.0]	1 [1.0]	
Olfactory Epithelium, Metaplasia, Respiratory	17 [1.2]	39 [1.2]	47 [1.6]	48 [1.8]
Olfactory Epithelium, Necrosis	4 [1.5]	1 [1.0]	2 [1.5]	4 [1.3]
Respiratory Epithelium, Accumulation, Hyaline Droplet	17 [1.1]	21 [1.2]	24 [1.2]	16 [1.2]
Respiratory Epithelium, Hyperplasia	37 [1.3]	36 [1.2]	35 [1.5]	39 [1.5]
Respiratory Epithelium, Metaplasia, Squamous	2 [1.5]		3 [1.0]	
Respiratory Epithelium, Necrosis	2 [1.0]		2 [1.5]	3 [1.3]
Turbinates, Atrophy		46 [1.1]	46 [2.1]	47 [2.8]
Turbinates, Necrosis			1 [2.0]	
Pleura	(1)	(1)	(0)	(0)
Trachea	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 [1.0]			1 [1.0]
Inflammation, Chronic Active				1 [2.0]
Epithelium, Necrosis				1 [1.0]

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(48)
Cataract				1 [2.0]
Degeneration			1 [3.0]	
Necrosis				1 [3.0]
Cornea, Hyperplasia, Squamous		1 [2.0]		
Cornea, Inflammation, Chronic Active		1 [2.0]	1 [1.0]	
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia		2 [2.5]	3 [2.7]	1 [2.0]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm
Inflammation, Suppurative				1 [1.0]
Inflammation, Chronic Active		2 [1.5]		

URINARY SYSTEM

	(50)	(50)	(50)	(50)
Kidney	(50)	(50)	(50)	(50)
Cyst	1 [2.0]	1 [2.0]	5 [2.0]	7 [2.6]
Hydronephrosis	2 [2.5]		1 [2.0]	3 [2.3]
Infarct	2 [2.0]	2 [1.5]	2 [2.0]	1 [1.0]
Inflammation, Chronic Active			1 [3.0]	
Metaplasia, Osseous	2 [1.5]	1 [2.0]	1 [2.0]	
Mineralization	1 [2.0]			
Nephropathy	44 [1.9]	46 [1.6]	37 [2.2]	44 [2.2]
Papilla, Necrosis	1 [2.0]			
Pelvis, Inflammation, Chronic Active			1 [2.0]	
Renal Tubule, Hyperplasia		8 [1.8]	22 [1.7]	16 [1.7]
Renal Tubule, Pigmentation		1 [2.0]		
Transitional Epithelium, Hyperplasia			1 [1.0]	
Urinary Bladder	(50)	(50)	(50)	(49)
Inflammation, Chronic Active		1 [2.0]	1 [2.0]	
Necrosis		1 [1.0]		1 [1.0]
Transitional Epithelium, Hyperplasia		2 [1.5]	3 [1.7]	1 [2.0]

*** END OF MALE ***

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

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	11	20	14	17
Natural Death	3	5	6	9
Survivors				
Moribund Sacrifice				1
Terminal Sacrifice	36	25	30	23
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(46)	(43)	(45)	(43)
Degeneration, Hyaline	1 [1.0]			
Hyperplasia	1 [2.0]			
Intestine Large, Cecum	(49)	(48)	(45)	(45)
Infiltration Cellular, Mast Cell			1 [2.0]	
Inflammation, Chronic Active			1 [2.0]	
Necrosis			2 [2.0]	
Intestine Large, Colon	(49)	(47)	(46)	(46)
Intestine Large, Rectum	(49)	(47)	(47)	(46)
Intestine Small, Duodenum	(49)	(47)	(45)	(46)
Inflammation, Suppurative	1 [1.0]			
Inflammation, Chronic Active			1 [1.0]	
Intestine Small, Ileum	(49)	(48)	(45)	(45)
Hemorrhage			1 [2.0]	
Hyperplasia		1 [2.0]	2 [3.0]	
Inflammation, Chronic Active			1 [2.0]	
Ulcer	1 [2.0]			
Intestine Small, Jejunum	(48)	(47)	(45)	(45)
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 [3.0]	1 [2.0]		2 [2.0]
Basophilic Focus	1	4		3
Clear Cell Focus	5	2	6	3

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
Cyst			1 [3.0]	
Eosinophilic Focus	9	10	9	4
Fatty Change	2 [3.0]		2 [1.5]	
Hemorrhage	1 [2.0]			
Infarct	1 [2.0]		1 [4.0]	
Inflammation, Suppurative	1 [2.0]	1 [1.0]		
Inflammation, Chronic Active			2 [2.5]	
Mixed Cell Focus				1
Necrosis	2 [1.5]	3 [2.3]	6 [2.0]	3 [2.0]
Vacuolization Cytoplasmic				1 [2.0]
Mesentery	(10)	(16)	(19)	(37)
Angiectasis			1 [2.0]	
Infiltration Cellular, Mononuclear Cell				1 [2.0]
Artery, Inflammation	1 [2.0]			
Fat, Necrosis	8 [2.3]	14 [2.2]	15 [2.0]	33 [2.1]
Pancreas	(50)	(49)	(50)	(50)
Atrophy				1 [3.0]
Cyst		1 [2.0]	1 [3.0]	
Fibrosis		1 [2.0]		
Inflammation, Chronic Active	1 [2.0]	1 [1.0]		
Necrosis	1 [1.0]			1 [3.0]
Artery, Inflammation, Chronic Active	2 [2.0]			
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation, Suppurative			1 [2.0]	
Necrosis		1 [1.0]		
Stomach, Forestomach	(50)	(49)	(50)	(50)
Hyperplasia, Squamous	2 [2.0]	2 [2.0]		2 [2.0]
Inflammation, Chronic Active				1 [1.0]
Necrosis		1 [2.0]	1 [1.0]	4 [1.5]
Ulcer	1 [2.0]			1 [2.0]
Artery, Inflammation, Chronic Active		1 [2.0]		
Stomach, Glandular	(49)	(48)	(49)	(49)
Mineralization	2 [1.0]	2 [1.0]	2 [1.0]	
Necrosis		1 [2.0]	3 [1.7]	1 [1.0]
Artery, Inflammation, Chronic Active	1 [2.0]	1 [3.0]		
Tooth	(0)	(1)	(0)	(0)

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

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Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
Dysplasia		1 [4.0]		

CARDIOVASCULAR SYSTEM

Blood Vessel	(0)	(1)	(0)	(0)
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	9 [1.2]	12 [1.2]	12 [1.2]	9 [1.2]
Inflammation, Suppurative			1 [3.0]	
Mineralization	2 [1.0]	1 [1.0]		
Necrosis, Chronic		1 [3.0]		
Thrombosis		2 [4.0]	1 [4.0]	3 [3.0]
Artery, Inflammation, Chronic Active	2 [1.5]	2 [3.0]		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(49)	(50)	(49)
Angiectasis	1 [3.0]	1 [4.0]		
Hyperplasia	6 [1.7]	6 [1.2]	8 [1.3]	8 [1.5]
Hypertrophy	4 [2.3]		5 [1.4]	3 [1.7]
Inflammation, Suppurative		1 [2.0]		
Vacuolization Cytoplasmic			1 [4.0]	
Subcapsular, Hyperplasia		1 [2.0]		
Adrenal Medulla	(50)	(48)	(50)	(49)
Hyperplasia	1 [3.0]	3 [2.3]	1 [2.0]	4 [2.0]
Inflammation, Suppurative		1 [2.0]		
Islets, Pancreatic	(50)	(49)	(50)	(50)
Hyperplasia	1 [2.0]	1 [2.0]	1 [2.0]	3 [2.0]
Parathyroid Gland	(24)	(22)	(21)	(31)
Pituitary Gland	(50)	(50)	(48)	(47)
Pars Distalis, Angiectasis			2 [2.0]	1 [3.0]
Pars Distalis, Cyst				1 [4.0]
Pars Distalis, Hyperplasia	6 [1.8]	9 [1.9]	8 [2.0]	8 [2.5]
Thyroid Gland	(50)	(50)	(50)	(50)
Follicular Cell, Hyperplasia		2 [2.5]	2 [2.0]	

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

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

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 12:00:38

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/20/05 / 06/20/05

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE

Control

6.25 ppm

12.5 ppm

25 ppm

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(45)	(46)	(45)	(45)
Hyperplasia			1 [1.0]	
Inflammation, Chronic Active				1 [1.0]
Ovary	(50)	(49)	(49)	(49)
Angiectasis			2 [2.5]	
Cyst	6 [2.7]	6 [2.8]	12 [3.1]	2 [3.0]
Thrombosis		2 [3.0]	2 [3.0]	1 [3.0]
Uterus	(50)	(49)	(50)	(50)
Adenomyosis			1 [2.0]	
Angiectasis			1 [3.0]	
Hemorrhage			1 [2.0]	
Inflammation, Suppurative		1 [4.0]	1 [4.0]	
Inflammation, Histiocytic, Chronic Active	1 [2.0]			
Inflammation, Chronic Active	1 [2.0]			
Necrosis			1 [3.0]	
Thrombosis	1 [2.0]		2 [2.5]	1 [3.0]
Ulcer		1 [4.0]		
Endometrium, Hyperplasia, Cystic	36 [2.8]	41 [2.6]	46 [3.0]	46 [2.9]

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(49)	(50)	(50)
Thrombosis				1 [2.0]
Myeloid Cell, Hyperplasia		1 [3.0]	2 [3.0]	1 [4.0]
Lymph Node	(8)	(11)	(1)	(8)
Hyperplasia, Lymphoid				1 [4.0]
Iliac, Ectasia		1 [3.0]		

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

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

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 12:00:38

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/20/05 / 06/20/05

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
Lumbar, Renal, Angiectasis	1 [4.0]			
Lumbar, Renal, Inflammation, Granulomatous	1 [2.0]			
Renal, Angiectasis	1 [4.0]			
Renal, Ectasia				1 [2.0]
Lymph Node, Bronchial	(25)	(38)	(38)	(38)
Lymph Node, Mandibular	(31)	(35)	(30)	(37)
Angiectasis		1 [4.0]		1 [3.0]
Lymph Node, Mediastinal	(42)	(45)	(45)	(47)
Lymph Node, Mesenteric	(47)	(48)	(47)	(45)
Hemorrhage				1 [2.0]
Hyperplasia, Lymphoid		1 [4.0]	1 [3.0]	
Spleen	(50)	(49)	(50)	(49)
Hematopoietic Cell Proliferation	3 [3.0]	6 [2.8]	7 [3.0]	9 [2.3]
Necrosis		1 [2.0]		
Thymus	(47)	(44)	(46)	(40)
Cyst				1 [1.0]

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia		1 [2.0]		3 [1.3]
Skin	(50)	(50)	(50)	(50)
Hemorrhage		1 [2.0]		
Inflammation, Chronic Active				1 [2.0]
Necrosis	3 [2.7]	2 [2.5]	2 [2.0]	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Cyst				1 [2.0]
Degeneration				1 [3.0]
Hyperostosis		1 [2.0]		
Skeletal Muscle	(3)	(3)	(2)	(4)

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Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 12:00:38

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/20/05 / 06/20/05

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Artery, Meninges, Inflammation, Chronic Active	1 [1.0]			1 [1.0]
Peripheral Nerve	(2)	(2)	(0)	(0)
Spinal Cord	(2)	(2)	(0)	(1)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(49)	(49)
Degeneration, Hyaline	1 [1.0]			
Inflammation, Suppurative		1 [1.0]		
Metaplasia, Squamous	2 [2.0]		1 [2.0]	1 [2.0]
Artery, Inflammation, Chronic Active	1 [1.0]			
Squamous Epithelium, Necrosis			1 [2.0]	
Lung	(50)	(50)	(50)	(49)
Degeneration, Hyaline	1 [1.0]			
Fibrosis				1 [2.0]
Hemorrhage		1 [2.0]	1 [2.0]	1 [2.0]
Inflammation, Chronic Active	2 [1.5]	5 [1.2]	3 [1.0]	4 [1.5]
Alveolar Epithelium, Hyperplasia	3 [1.3]	1 [1.0]	4 [1.3]	3 [1.3]
Alveolus, Infiltration Cellular, Histiocyte	3 [2.0]	1 [1.0]	3 [1.3]	3 [2.0]
Perivascular, Inflammation, Chronic Active				2 [1.0]
Vein, Necrosis		1 [1.0]		
Nose	(50)	(50)	(50)	(50)
Foreign Body		1	1	2
Hyperostosis		13 [1.2]	45 [2.0]	48 [2.2]
Inflammation, Suppurative		1 [2.0]	3 [1.7]	5 [1.2]
Inflammation, Chronic Active	2 [2.0]	1 [2.0]		2 [1.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	18 [1.6]	18 [1.5]	13 [1.4]	32 [1.8]
Olfactory Epithelium, Metaplasia, Respiratory	3 [1.0]	29 [1.1]	49 [1.6]	50 [1.9]
Olfactory Epithelium, Necrosis			2 [1.0]	1 [1.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet	38 [1.6]	33 [1.5]	29 [1.6]	42 [1.8]
Respiratory Epithelium, Hyperplasia	33 [1.1]	41 [1.2]	39 [1.5]	43 [1.8]

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

Vinylidene chloride

Time Report Requested: 12:00:38

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/20/05 / 06/20/05

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
Respiratory Epithelium, Metaplasia, Squamous	3 [1.0]	2 [1.5]	3 [1.3]	7 [1.1]
Respiratory Epithelium, Necrosis	1 [1.0]	3 [1.0]	5 [1.0]	4 [1.0]
Turbinate, Atrophy		46 [1.0]	50 [2.3]	49 [2.8]
Trachea	(50)	(50)	(50)	(49)
Degeneration, Hyaline	1 [1.0]			
Foreign Body	1			
Inflammation, Chronic Active	1 [2.0]			
Artery, Inflammation, Chronic Active		1 [3.0]		

SPECIAL SENSES SYSTEM

Eye	(50)	(49)	(50)	(49)
Cataract		1 [1.0]	1 [3.0]	
Degeneration			1 [4.0]	
Cornea, Inflammation, Suppurative				1 [2.0]
Cornea, Necrosis				1 [2.0]
Harderian Gland	(50)	(50)	(50)	(48)
Hyperplasia	1 [2.0]	1 [3.0]	2 [2.0]	2 [3.5]

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Cyst		2 [2.5]	1 [3.0]	
Hydronephrosis	2 [2.0]		1 [3.0]	3 [3.0]
Infarct	5 [1.8]	5 [1.8]	2 [2.0]	
Inflammation, Chronic Active		1 [2.0]		
Metaplasia, Osseous	3 [1.3]		2 [2.0]	3 [1.3]
Nephropathy	26 [1.4]	28 [1.3]	38 [1.4]	35 [1.5]
Artery, Inflammation, Chronic Active	2 [2.0]	3 [2.3]		1 [2.0]
Glomerulus, Amyloid Deposition		1 [1.0]		1 [2.0]
Papilla, Inflammation, Suppurative			1 [1.0]	
Renal Tubule, Necrosis		1 [2.0]		
Renal Tubule, Pigmentation			1 [1.0]	
Urinary Bladder	(49)	(49)	(48)	(48)
Artery, Inflammation, Chronic Active	1 [2.0]			

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

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

Experiment Number: 20303 - 06

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

Date Report Requested: 03/26/2012

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 12:00:38

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/20/05 / 06/20/05

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm
Transitional Epithelium, Hyperplasia	1 [1.0]			

*** END OF REPORT ***

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

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