

TDMS No. 99017 - 05

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

Date Report Requested: 01/13/2010

Test Type: CHRONIC

Diethylamine

Time Report Requested: 11:20:13

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 109-89-7

First Dose M/F: 08/25/03 / 08/25/03

Species/Strain: RATS/F 344/N

Lab: BNW

F3_R2

C Number: C99017
Lock Date: 07/24/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	19	24	20	13
Natural Death	3	5	5	1
Survivors				
Terminal Sacrifice	28	21	25	36
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(47)	(49)	(50)
Necrosis	1 [3.0]		1 [4.0]	
Serosa, Inflammation, Suppurative		1 [3.0]		
Intestine Small, Duodenum	(49)	(49)	(49)	(50)
Intestine Small, Ileum	(48)	(47)	(46)	(49)
Necrosis			1 [4.0]	
Intestine Small, Jejunum	(48)	(47)	(48)	(50)
Inflammation, Suppurative		1 [4.0]		
Ulcer		1 [4.0]		
Artery, Inflammation, Chronic				1 [2.0]
Liver	(50)	(50)	(50)	(50)
Angiectasis			1 [3.0]	
Basophilic Focus	2 [1.5]	2 [2.0]	3 [3.0]	5 [2.2]
Basophilic Focus, Multiple	6 [1.0]	1	1 [1.0]	
Clear Cell Focus	3 [3.7]	8 [2.4]	2 [3.5]	4 [2.3]
Clear Cell Focus, Multiple	9 [1.1]	1 [2.0]	2 [1.0]	6 [1.0]
Degeneration, Cystic	1 [4.0]			
Hepatodiaphragmatic Nodule	4 [4.0]	2 [4.0]	4 [4.0]	
Necrosis	1 [2.0]	2 [3.0]	1 [3.0]	
Vacuolization Cytoplasmic	5 [2.6]	4 [2.8]	5 [3.2]	2 [1.5]
Bile Duct, Cyst		1 [4.0]		
Bile Duct, Dilatation				1 [3.0]
Bile Duct, Hyperplasia			1 [3.0]	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: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Kupffer Cell, Pigmentation	1 [1.0]			
Periportal, Inflammation, Chronic	1 [2.0]	1 [2.0]	1 [3.0]	
Periportal, Pigmentation				1 [3.0]
Mesentery	(10)	(13)	(16)	(10)
Inflammation, Chronic			1 [3.0]	
Necrosis	9 [3.0]	12 [3.0]	13 [3.0]	10 [2.7]
Fat, Hemorrhage	1 [3.0]	1 [2.0]	1 [3.0]	
Pancreas	(49)	(50)	(50)	(50)
Acinus, Atrophy	24 [1.6]	22 [2.0]	29 [1.7]	31 [1.8]
Acinus, Hyperplasia				1 [2.0]
Duct, Cyst	1 [4.0]			1 [2.0]
Salivary Glands	(50)	(50)	(50)	(50)
Duct, Cyst	1 [4.0]			
Stomach, Forestomach	(50)	(50)	(50)	(50)
Diverticulum	1 [2.0]			
Hyperplasia, Squamous	2 [2.5]			
Inflammation, Suppurative			1 [2.0]	
Ulcer	1 [4.0]	4 [4.0]	2 [4.0]	2 [3.0]
Muscularis, Degeneration				1 [3.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Erosion			3 [2.3]	
Inflammation, Chronic Active				1 [3.0]
Tongue	(0)	(0)	(1)	(0)
Epithelium, Hyperplasia			1 [3.0]	

CARDIOVASCULAR SYSTEM

Blood Vessel	(0)	(0)	(0)	(1)
Adventitia, Inflammation, Chronic				1 [2.0]
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	23 [1.2]	24 [1.4]	21 [1.1]	25 [1.2]
Atrium, Thrombosis	1 [4.0]	4 [3.5]	3 [3.7]	
Atrium, Ventricle, Thrombosis			1 [4.0]	
Myocardium, Mineralization				1 [3.0]
Ventricle, Thrombosis			1 [4.0]	

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Test Type: CHRONIC

Diethylamine

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Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 109-89-7

First Dose M/F: 08/25/03 / 08/25/03

Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
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ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]	1 [4.0]	1 [4.0]	
Hyperplasia	15 [2.3]	17 [3.2]	10 [3.0]	12 [2.8]
Hyperplasia, Focal		1 [2.0]	1 [2.0]	
Necrosis		1 [3.0]		
Vacuolization Cytoplasmic	9 [2.1]	7 [2.4]	16 [2.2]	6 [1.3]
Adrenal Medulla	(50)	(50)	(50)	(49)
Hyperplasia	15 [2.9]	18 [2.5]	25 [2.7]	17 [2.9]
Bilateral, Hyperplasia	1 [3.0]			1 [3.0]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	1 [4.0]	1 [3.0]		1 [2.0]
Pituitary Gland	(50)	(48)	(50)	(50)
Atrophy	1 [4.0]		1 [4.0]	
Cyst	2 [4.0]			1 [4.0]
Hemorrhage	1 [4.0]	1 [4.0]	1 [4.0]	
Pars Distalis, Hyperplasia	7 [3.4]	9 [3.0]	9 [3.2]	7 [2.6]
Thyroid Gland	(50)	(50)	(50)	(50)
Cyst				1 [2.0]
Ultimobranchial Cyst				1 [1.0]
C-cell, Hyperplasia	17 [1.9]	13 [1.4]	7 [1.6]	11 [1.8]
Follicular Cell, Hyperplasia	1 [3.0]		1 [2.0]	1 [4.0]

GENERAL BODY SYSTEM

Peritoneum	(0)	(1)	(1)	(1)
Mesothelium, Tunica Vaginalis, Hyperplasia				1 [2.0]

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Necrosis, Fatty	1 [3.0]			

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FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Preputial Gland	(50)	(50)	(50)	(50)
Cyst	2 [3.5]			2 [2.5]
Hyperplasia		3 [2.7]	1 [4.0]	1 [4.0]
Inflammation, Suppurative		1 [4.0]		1 [3.0]
Prostate	(50)	(50)	(50)	(50)
Hyperplasia	2 [1.5]		1 [2.0]	4 [1.3]
Inflammation, Suppurative	29 [1.4]	28 [1.4]	29 [2.0]	26 [1.5]
Seminal Vesicle	(50)	(50)	(50)	(50)
Cyst			1 [3.0]	
Inflammation, Suppurative			1 [4.0]	2 [2.0]
Testes	(50)	(50)	(50)	(50)
Mineralization		2 [3.0]	1 [3.0]	
Artery, Inflammation, Chronic Active	1 [3.0]			1 [2.0]
Germinal Epithelium, Atrophy	9 [3.6]	11 [3.5]	7 [3.4]	15 [3.6]
Germinal Epithelium, Mineralization	1 [3.0]			
Interstitial Cell, Hyperplasia	24 [1.5]	18 [1.7]	14 [2.1]	17 [1.4]
Tunic, Hyperplasia				1 [2.0]

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia, Reticulum Cell	2 [4.0]		1 [3.0]	
Lymph Node	(10)	(5)	(10)	(10)
Ectasia		1 [4.0]		
Deep Cervical, Hemorrhage				1 [2.0]
Deep Cervical, Pigmentation				1 [2.0]
Pancreatic, Infiltration Cellular, Histiocyte	1 [4.0]			
Pancreatic, Pigmentation	1 [3.0]			
Lymph Node, Bronchial	(4)	(4)	(3)	(5)
Ectasia				1 [3.0]
Hyperplasia, Lymphoid		1 [2.0]		
Pigmentation				1 [2.0]
Lymph Node, Mandibular	(0)	(0)	(1)	(1)
Ectasia				1 [4.0]
Lymph Node, Mediastinal	(30)	(24)	(35)	(29)

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Infiltration Cellular, Histiocyte	1 [2.0]			1 [3.0]
Lymph Node, Mesenteric	(49)	(50)	(50)	(49)
Ectasia		1 [2.0]		
Hyperplasia, Lymphoid				1 [2.0]
Spleen	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	1 [4.0]	1 [4.0]	3 [4.0]	1 [3.0]
Hemorrhage	2 [4.0]	2 [4.0]	2 [4.0]	
Hyperplasia, Lymphoid	1 [4.0]			
Necrosis	1 [4.0]	3 [3.7]	2 [4.0]	3 [3.7]
Thrombosis	1 [4.0]			
Capsule, Fibrosis	1 [4.0]			
Thymus	(44)	(43)	(47)	(45)
Hyperplasia, Tubular	1 [4.0]			

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(49)
Galactocele	1 [4.0]	1 [2.0]	3 [3.0]	2 [4.0]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		5 [4.0]	3 [4.0]	1 [4.0]
Hyperkeratosis			1 [4.0]	
Inflammation, Suppurative		1 [3.0]		
Ulcer		2 [4.0]	1 [3.0]	1 [3.0]
Sebaceous Gland, Hyperplasia	1 [1.0]			

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Cranium, Fracture				1 [4.0]
Skeletal Muscle	(0)	(1)	(1)	(1)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
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FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Compression	9 [3.1]	11 [3.1]	6 [2.8]	4 [2.5]
Gliosis	2 [1.0]			
Hemorrhage	2 [4.0]	8 [2.8]	5 [2.4]	
Hydrocephalus	1 [4.0]	1 [3.0]	1 [1.0]	
Inflammation, Suppurative				1 [4.0]
Necrosis				1 [4.0]

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Foreign Body	2	3	3	2
Inflammation, Suppurative	1 [1.0]	1 [2.0]	1 [1.0]	4 [2.5]
Inflammation, Chronic	1 [1.0]			
Epiglottis, Hyperplasia			1 [3.0]	
Epiglottis, Metaplasia, Squamous		1 [1.0]		
Respiratory Epithelium, Metaplasia, Squamous				1 [1.0]
Lung	(50)	(50)	(50)	(50)
Edema	1 [4.0]			
Hemorrhage	5 [2.2]	3 [2.3]	4 [2.0]	5 [1.2]
Inflammation, Suppurative		4 [2.0]		2 [2.0]
Inflammation, Chronic	8 [1.4]	8 [1.5]	8 [1.6]	10 [1.7]
Metaplasia, Osseous		1 [1.0]		2 [1.0]
Alveolar Epithelium, Hyperplasia	6 [1.7]	7 [2.6]	6 [1.8]	5 [3.0]
Alveolar Epithelium, Metaplasia, Squamous				1 [1.0]
Alveolus, Infiltration Cellular, Histiocyte	15 [1.5]	12 [1.8]	19 [1.5]	20 [1.6]
Alveolus, Metaplasia, Osseous				1 [2.0]
Alveolus, Mineralization				1 [1.0]
Alveolus, Proteinosis	1 [1.0]		2 [2.5]	1 [1.0]
Artery, Thrombosis		2 [3.5]		
Bronchiole, Hyperplasia				2 [1.0]
Interstitial, Fibrosis	1 [2.0]			3 [2.0]
Nose	(49)	(50)	(50)	(50)
Foreign Body	6	3	4	2
Hemorrhage		1 [3.0]		
Inflammation, Suppurative	5 [1.6]	5 [1.6]	10 [1.7]	29 [2.6]

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FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Inflammation, Chronic	1 [1.0]			
Thrombosis				1 [1.0]
Glands, Olfactory Epithelium, Accumulation, Hyaline Droplet				1 [1.0]
Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet	6 [1.0]	45 [1.2]	42 [1.6]	45 [1.5]
Glands, Respiratory Epithelium, Hyperplasia	44 [1.0]	46 [1.2]	46 [1.7]	48 [1.7]
Goblet Cell, Hyperplasia			2 [1.5]	13 [2.2]
Nasolacrimal Duct, Inflammation, Suppurative			1 [2.0]	
Olfactory Epithelium, Accumulation, Hyaline Droplet	8 [1.0]	49 [2.4]	49 [2.1]	42 [1.7]
Olfactory Epithelium, Atrophy	2 [1.5]	49 [1.5]	50 [1.8]	50 [2.3]
Olfactory Epithelium, Degeneration, Hyaline		1 [2.0]		1 [2.0]
Olfactory Epithelium, Hyperplasia, Basal Cell			22 [1.8]	50 [2.4]
Olfactory Epithelium, Metaplasia, Squamous		2 [1.5]		1 [1.0]
Olfactory Epithelium, Necrosis		1 [2.0]		2 [2.0]
Olfactory Epithelium, Respiratory Metaplasia	2 [1.5]	2 [1.0]	2 [1.5]	37 [1.6]
Olfactory Epithelium, Vacuolization Cytoplasmic		2 [4.0]	8 [3.8]	1 [4.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet		29 [1.2]	42 [1.4]	11 [1.5]
Respiratory Epithelium, Hyperplasia	5 [1.6]	34 [1.2]	35 [1.3]	47 [1.9]
Respiratory Epithelium, Inflammation, Chronic				1 [2.0]
Respiratory Epithelium, Metaplasia, Squamous		2 [1.0]	6 [1.8]	26 [2.1]
Respiratory Epithelium, Necrosis			1 [1.0]	4 [1.3]
Respiratory Epithelium, Ulcer			2 [2.5]	22 [3.3]
Respiratory Epithelium, Vacuolization Cytoplasmic		5 [4.0]	8 [3.9]	3 [4.0]
Turbinate, Hyperostosis				3 [2.3]
Turbinate, Necrosis			1 [2.0]	19 [2.9]
Pleura	(50)	(50)	(50)	(50)
Fibrosis	1 [3.0]			
Hyperplasia		1 [3.0]		
Inflammation, Chronic	3 [1.3]	4 [1.3]	3 [1.3]	9 [1.6]
Trachea	(50)	(50)	(50)	(50)

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Lab: BNW

FISCHER 344 RATS MALE	CONTROL	31 PPM	62.5 PPM	125 PPM
SPECIAL SENSES SYSTEM				
Eye	(49)	(50)	(50)	(50)
Anterior Chamber, Inflammation, Suppurative			1 [4.0]	2 [3.0]
Cornea, Fibrosis	1 [1.0]			
Cornea, Hyperplasia				1 [1.0]
Cornea, Inflammation, Suppurative			1 [2.0]	5 [2.4]
Cornea, Inflammation, Chronic				2 [2.0]
Cornea, Inflammation, Chronic Active				1 [1.0]
Cornea, Mineralization			1 [1.0]	1 [1.0]
Cornea, Vacuolization Cytoplasmic				3 [1.3]
Lens, Cataract	1 [2.0]	3 [4.0]	1 [3.0]	5 [2.6]
Retina, Atrophy	1 [2.0]	3 [4.0]	1 [3.0]	3 [3.3]
Retina, Dysplasia				1 [2.0]
Sclera, Metaplasia, Osseous	11 [1.5]	9 [2.1]	13 [1.8]	6 [1.3]
Sclera, Mineralization	1 [2.0]	1 [1.0]	1 [1.0]	
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia				1 [1.0]
Inflammation, Chronic	1 [1.0]	1 [1.0]		2 [1.5]
Zymbal's Gland	(43)	(39)	(41)	(40)
Duct, Hyperplasia	1 [3.0]			1 [3.0]

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Nephropathy, Chronic	44 [2.0]	39 [2.3]	40 [2.2]	39 [1.9]
Cortex, Cyst	1 [3.0]			
Cortex, Infarct		2 [3.5]	2 [2.5]	2 [3.5]
Cortex, Renal Tubule, Accumulation, Hyaline Droplet	1 [4.0]			
Cortex, Renal Tubule, Casts Granular, Focal	1 [4.0]			
Cortex, Renal Tubule, Hyperplasia, Atypical				1 [3.0]
Cortex, Renal Tubule, Mineralization		1 [2.0]		
Cortex, Renal Tubule, Necrosis		1 [2.0]		
Papilla, Mineralization	2 [1.0]	3 [1.3]		

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Pelvis, Dilatation		1 [3.0]		
Pelvis, Inflammation, Suppurative				1 [2.0]
Pelvis, Transitional Epithelium, Hyperplasia			2 [3.0]	4 [2.8]
Pelvis, Transitional Epithelium, Mineralization		1 [2.0]	1 [4.0]	
Urinary Bladder	(50)	(50)	(49)	(50)
Hemorrhage	1 [4.0]	1 [4.0]		
Infiltration Cellular, Histiocyte	1 [4.0]			
Muscularis, Pigmentation	1 [4.0]			
Transitional Epithelium, Hemorrhage			1 [3.0]	
Transitional Epithelium, Hyperplasia	1 [4.0]			2 [2.5]

*** END OF MALE ***

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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	17	15	18	15
Natural Death	2	4	2	
Survivors				
Moribund Sacrifice			1	1
Terminal Sacrifice	31	31	29	34
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Intestine Large, Colon	(49)	(47)	(50)	(50)
Epithelium, Hyperplasia, Focal	1 [3.0]			
Liver	(50)	(50)	(50)	(50)
Angiectasis	3 [1.3]	1 [3.0]	3 [2.3]	3 [2.7]
Basophilic Focus	3 [2.3]	1 [3.0]	4 [2.5]	7 [1.4]
Basophilic Focus, Multiple	17 [1.0]	13 [1.1]	19 [1.3]	15 [1.1]
Clear Cell Focus	8 [2.6]	8 [1.9]	6 [3.0]	4 [2.8]
Clear Cell Focus, Multiple	8 [2.1]	1 [3.0]	2 [3.0]	3 [2.3]
Degeneration, Cystic		1 [3.0]		
Hemorrhage	1 [3.0]		2 [3.5]	
Hepatodiaphragmatic Nodule	9 [4.0]	6 [4.0]	2 [4.0]	9 [4.0]
Necrosis		1 [4.0]	1 [3.0]	
Thrombosis	1 [4.0]			
Vacuolization Cytoplasmic	3 [3.3]	8 [2.6]	6 [2.2]	2 [1.5]
Artery, Inflammation			1 [3.0]	
Bile Duct, Hyperplasia			1 [4.0]	
Hepatocyte, Regeneration			1 [4.0]	
Periportal, Inflammation, Chronic		1 [2.0]		
Periportal, Pigmentation			1 [3.0]	
Mesentery	(16)	(15)	(18)	(10)
Necrosis	15 [2.9]	14 [2.9]	17 [3.0]	10 [3.0]
Artery, Inflammation			1 [4.0]	
Pancreas	(50)	(50)	(50)	(50)

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Test Type: CHRONIC

Diethylamine

Time Report Requested: 11:20:13

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 109-89-7

First Dose M/F: 08/25/03 / 08/25/03

Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Inflammation, Chronic				1 [1.0]
Acinus, Atrophy	1 [2.0]	1 [3.0]	1 [3.0]	4 [2.3]
Artery, Inflammation		1 [2.0]	1 [3.0]	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Erosion		1 [2.0]		
Hyperplasia, Squamous	1 [3.0]			
Inflammation, Suppurative	2 [2.5]			
Ulcer	1 [4.0]	3 [3.7]	1 [4.0]	1 [4.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Ulcer	1 [3.0]	1 [3.0]		
Tongue	(0)	(2)	(0)	(1)
Epithelium, Hyperplasia		1 [3.0]		1 [2.0]

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	16 [1.3]	17 [1.3]	23 [1.4]	16 [1.2]
Atrium, Ventricle, Thrombosis	1 [4.0]			

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Atrophy	1 [3.0]			
Hemorrhage	1 [2.0]			1 [3.0]
Hyperplasia	12 [3.2]	6 [3.3]	15 [2.9]	18 [2.8]
Hyperplasia, Focal	1 [2.0]	1 [2.0]	3 [2.0]	
Necrosis	1 [3.0]	1 [2.0]		
Vacuolization Cytoplasmic	14 [1.4]	13 [2.7]	13 [2.5]	11 [1.6]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	6 [2.5]	1 [2.0]	2 [2.5]	
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia		1 [3.0]		
Parathyroid Gland	(43)	(42)	(48)	(48)
Pituitary Gland	(50)	(50)	(50)	(50)
Cyst		1 [3.0]	1 [3.0]	1 [4.0]

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FISCHER 344 RATS FEMALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Hemorrhage	2 [4.0]	2 [3.0]		2 [2.5]
Pars Distalis, Hyperplasia	9 [3.4]	10 [3.0]	7 [3.6]	18 [3.3]
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst	1 [1.0]			
C-cell, Hyperplasia	25 [1.4]	18 [1.7]	25 [1.4]	21 [1.2]
Follicular Cell, Hyperplasia	1 [1.0]			

GENERAL BODY SYSTEM

Tissue NOS	(1)	(0)	(0)	(0)
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GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	1 [4.0]	1 [2.0]	2 [3.0]	4 [2.0]
Hyperplasia	2 [4.0]	5 [3.2]	4 [3.5]	6 [3.3]
Inflammation, Chronic	1 [4.0]			
Ovary	(50)	(50)	(50)	(50)
Cyst	7 [2.6]	5 [2.8]	4 [4.0]	4 [3.5]
Uterus	(50)	(50)	(50)	(50)
Hemorrhage			2 [4.0]	1 [4.0]
Thrombosis			1 [4.0]	2 [4.0]
Endometrium, Hyperplasia	1 [2.0]	1 [1.0]	1 [1.0]	2 [2.5]
Vagina	(1)	(0)	(0)	(0)
Cyst	1 [4.0]			

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia, Reticulum Cell	2 [3.5]	1 [4.0]	1 [3.0]	3 [3.7]
Myelofibrosis	1 [3.0]			
Lymph Node	(3)	(0)	(1)	(1)
Lymph Node, Bronchial	(4)	(1)	(5)	(7)
Hemorrhage		1 [2.0]		

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Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	31 PPM	62.5 PPM	125 PPM
Hyperplasia, Histiocytic Infiltration Cellular, Histiocyte	1 [2.0]			1 [3.0]
Lymph Node, Mandibular	(2)	(0)	(1)	(2)
Lymph Node, Mediastinal	(33)	(27)	(25)	(29)
Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte				1 [4.0] 1 [4.0]
Pigmentation				2 [3.0]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]			
Fibrosis		1 [4.0]	1 [2.0]	
Hematopoietic Cell Proliferation	7 [3.9]	3 [3.7]	4 [3.8]	3 [3.7]
Hemorrhage	1 [4.0]			
Hyperplasia, Histiocytic		1 [4.0]		1 [4.0]
Necrosis	1 [4.0]		1 [3.0]	
Pigmentation	1 [2.0]	1 [4.0]		
Stromal Hyperplasia	1 [4.0]			
Thymus	(48)	(44)	(40)	(47)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Galactocele	4 [2.5]	3 [2.0]	5 [1.0]	3 [2.3]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1 [4.0]	1 [4.0]	1 [2.0]	2 [3.0]
Ulcer	6 [3.2]	2 [3.5]	1 [4.0]	3 [4.0]
Subcutaneous Tissue, Cyst		1 [3.0]		
Subcutaneous Tissue, Fibrosis			1 [3.0]	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Cranium, Inflammation, Suppurative				1 [4.0]

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Diethylamine

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First Dose M/F: 08/25/03 / 08/25/03

Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	31 PPM	62.5 PPM	125 PPM
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NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	12 [3.3]	11 [3.5]	14 [3.3]	9 [3.7]
Hemorrhage	4 [2.5]	1 [4.0]	2 [2.5]	5 [1.8]
Meninges, Hemorrhage	1 [3.0]			
Meninges, Inflammation, Chronic			1 [1.0]	
Ventricle, Hemorrhage	1 [2.0]			
Spinal Cord	(0)	(0)	(1)	(0)

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Foreign Body	4	6	4	1
Inflammation, Suppurative	2 [1.0]	1 [1.0]	2 [2.0]	2 [1.0]
Epiglottis, Metaplasia, Squamous			2 [1.0]	
Respiratory Epithelium, Metaplasia, Squamous		2 [2.0]		
Lung	(50)	(50)	(50)	(50)
Hemorrhage	6 [1.3]	2 [1.5]	1 [2.0]	2 [2.0]
Inflammation, Chronic	4 [1.5]	11 [1.3]	7 [1.4]	24 [1.3]
Metaplasia, Osseous			1 [2.0]	
Alveolar Epithelium, Hyperplasia	3 [1.3]	6 [1.7]	4 [2.0]	3 [1.7]
Alveolar Epithelium, Metaplasia, Squamous				1 [3.0]
Alveolus, Infiltration Cellular, Histiocyte	13 [1.2]	24 [1.3]	27 [1.3]	35 [1.4]
Alveolus, Proteinosis			1 [2.0]	2 [2.0]
Bronchiole, Hyperplasia	1 [1.0]	1 [1.0]		
Interstitial, Fibrosis	1 [1.0]	2 [1.0]		2 [1.0]
Perivascular, Infiltration Cellular, Lymphocyte			1 [4.0]	
Nose	(50)	(49)	(50)	(50)
Foreign Body	6	1	1	2
Inflammation, Suppurative	6 [2.0]	4 [1.5]	15 [1.5]	34 [2.9]
Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet	9 [1.0]	46 [1.6]	45 [1.7]	44 [1.6]
Glands, Respiratory Epithelium, Hyperplasia	45 [1.0]	49 [1.7]	48 [1.9]	49 [2.1]
Goblet Cell, Hyperplasia	1 [2.0]		4 [1.8]	20 [2.5]

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Nasolacrimal Duct, Inflammation, Suppurative	2 [2.0]	2 [1.5]		
Olfactory Epithelium, Accumulation, Hyaline Droplet	11 [1.3]	49 [2.6]	50 [2.6]	48 [2.4]
Olfactory Epithelium, Atrophy	1 [1.0]	47 [1.9]	48 [2.3]	50 [2.7]
Olfactory Epithelium, Hyperplasia				1 [2.0]
Olfactory Epithelium, Hyperplasia, Basal Cell		3 [1.0]	29 [1.7]	48 [2.9]
Olfactory Epithelium, Metaplasia, Squamous			1 [1.0]	
Olfactory Epithelium, Mineralization				1 [1.0]
Olfactory Epithelium, Necrosis		2 [1.0]	3 [1.0]	
Olfactory Epithelium, Respiratory Metaplasia	3 [1.7]	1 [2.0]	2 [1.0]	19 [1.7]
Olfactory Epithelium, Vacuolization Cytoplasmic		1 [4.0]	4 [3.8]	3 [3.3]
Respiratory Epithelium, Accumulation, Hyaline Droplet	4 [1.0]	48 [1.9]	46 [1.2]	39 [1.4]
Respiratory Epithelium, Hyperplasia	7 [1.4]	31 [1.2]	41 [1.4]	50 [2.4]
Respiratory Epithelium, Inflammation, Chronic		1 [1.0]		
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]	1 [1.0]	5 [1.4]	39 [2.3]
Respiratory Epithelium, Necrosis			1 [1.0]	4 [1.8]
Respiratory Epithelium, Ulcer				34 [3.1]
Respiratory Epithelium, Vacuolization Cytoplasmic		1 [4.0]	4 [4.0]	3 [3.7]
Turbinates, Hyperostosis				2 [3.0]
Turbinates, Necrosis				32 [3.0]
Pleura	(50)	(50)	(50)	(50)
Inflammation, Chronic	6 [1.2]	14 [1.2]	12 [1.3]	21 [1.3]

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Anterior Chamber, Inflammation, Suppurative				1 [4.0]
Bilateral, Lens, Cataract			1 [4.0]	
Cornea, Inflammation, Suppurative		2 [2.5]	2 [2.5]	1 [3.0]
Cornea, Mineralization			1 [1.0]	
Cornea, Vacuolization Cytoplasmic			1 [3.0]	
Lens, Cataract	3 [2.0]	2 [4.0]	5 [3.6]	4 [3.5]
Retina, Atrophy	4 [2.5]	2 [4.0]	8 [3.3]	6 [3.0]

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Lab: BNW

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Sclera, Metaplasia, Osseous	4 [1.8]	2 [2.0]	2 [1.5]	2 [2.0]
Harderian Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 [1.0]	
Zymbal's Gland	(40)	(38)	(42)	(33)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Nephropathy, Chronic	26 [1.7]	31 [1.6]	30 [1.9]	24 [1.3]
Cortex, Infarct			1 [3.0]	1 [4.0]
Cortex, Renal Tubule, Accumulation, Hyaline Droplet				1 [4.0]
Cortex, Renal Tubule, Necrosis			1 [1.0]	
Papilla, Mineralization	12 [1.2]	13 [1.2]	9 [1.2]	4 [1.0]
Pelvis, Transitional Epithelium, Hyperplasia		2 [3.0]	2 [2.0]	
Pelvis, Transitional Epithelium, Mineralization	2 [1.0]			1 [1.0]
Renal Tubule, Vacuolization Cytoplasmic		1 [4.0]		
Urinary Bladder	(50)	(50)	(50)	(50)
Hemorrhage			1 [3.0]	
Transitional Epithelium, Hyperplasia			1 [3.0]	1 [2.0]

*** END OF REPORT ***

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