

**TDMs No.** 20011 - 05

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

**Date Report Requested:** 07/09/2008

**Test Type:** CHRONIC

1-Bromopropane

**Time Report Requested:** 10:20:06

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** 106-94-5

**First Dose M/F:** 07/14/03 / 07/14/03

**Species/Strain:** RATS/F 344

**Lab:** BNW

**C Number:** C20011

**Lock Date:** 06/15/2006

**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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CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	24	20	28	35
Natural Death	3	4	4	2
Survivors				
Terminal Sacrifice	23	26	18	13
Animals Examined Microscopically	50	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(47)	(47)	(47)	(48)
Edema	1 [2.0]			
Inflammation, Chronic Active			1 [2.0]	
Necrosis	1 [2.0]			
Artery, Inflammation	1 [2.0]			
Intestine Large, Colon	(48)	(48)	(48)	(48)
Artery, Inflammation	1 [2.0]			
Intestine Large, Rectum	(48)	(48)	(48)	(49)
Necrosis			1 [1.0]	1 [1.0]
Intestine Small, Duodenum	(48)	(48)	(48)	(48)
Fibrosis	1 [3.0]			
Intestine Small, Ileum	(47)	(47)	(46)	(48)
Inflammation, Chronic Active			1 [2.0]	
Necrosis	1 [1.0]		1 [1.0]	
Intestine Small, Jejunum	(47)	(47)	(46)	(48)
Liver	(50)	(50)	(50)	(50)
Angiectasis		2 [3.0]	1 [2.0]	
Basophilic Focus	9 [3.0]	9 [3.0]	8 [3.0]	8 [3.0]
Clear Cell Focus	16 [2.1]	25 [2.0]	17 [2.2]	15 [2.0]
Degeneration, Cystic	2 [2.5]	2 [2.0]	1 [2.0]	4 [2.3]
Eosinophilic Focus		1 [2.0]	1 [2.0]	1 [3.0]
Hemorrhage				1 [3.0]
Hepatodiaphragmatic Nodule	4 [3.8]	1 [4.0]		2 [3.5]
Mixed Cell Focus	2 [2.5]	1 [2.0]	3 [2.0]	
Necrosis	2 [2.5]	1 [1.0]	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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1-Bromopropane

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CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Thrombosis	1 [2.0]		1 [2.0]	
Vacuolization Cytoplasmic	31 [2.1]	38 [1.8]	32 [1.9]	37 [2.3]
Serosa, Fibrosis	1 [2.0]			
Mesentery	(13)	(13)	(8)	(19)
Necrosis	13 [3.0]	13 [3.0]	7 [3.0]	17 [3.0]
Oral Mucosa	(3)	(0)	(2)	(4)
Foreign Body	1		1	2
Hyperplasia, Squamous	1 [2.0]		1 [2.0]	
Inflammation, Chronic Active	1 [3.0]			2 [2.0]
Pancreas	(50)	(50)	(50)	(50)
Basophilic Focus	1 [1.0]			1 [1.0]
Cyst				1 [3.0]
Fibrosis				1 [4.0]
Necrosis				1 [2.0]
Acinus, Atrophy	23 [1.4]	13 [2.0]	20 [1.9]	23 [1.9]
Artery, Inflammation	1 [3.0]			1 [3.0]
Salivary Glands	(50)	(50)	(50)	(50)
Hyperplasia	1 [1.0]			
Inflammation, Chronic Active		1 [1.0]	3 [1.7]	2 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Erosion	1 [1.0]			
Hyperplasia, Squamous	1 [2.0]	1 [1.0]	1 [2.0]	1 [2.0]
Ulcer	7 [2.6]	3 [2.0]	5 [2.2]	4 [2.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Erosion	1 [1.0]		1 [2.0]	
Ulcer	1 [2.0]	2 [2.5]	1 [2.0]	
Artery, Inflammation	1 [2.0]			
Epithelium, Hyperplasia				1 [2.0]
Tongue	(0)	(0)	(1)	(1)
Hyperplasia, Squamous			1 [1.0]	1 [3.0]
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	26 [1.5]	23 [1.8]	23 [1.7]	15 [1.7]
Atrium, Thrombosis	4 [3.3]			2 [3.0]
Ventricle, Thrombosis				1 [3.0]
<b>ENDOCRINE SYSTEM</b>				

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

1-Bromopropane

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CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	27 [1.8]	21 [1.8]	22 [1.8]	20 [1.6]
Vacuolization Cytoplasmic	9 [1.2]	16 [1.6]	9 [2.0]	12 [1.7]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hemorrhage	1 [4.0]			
Hyperplasia	23 [1.7]	18 [1.9]	23 [1.8]	19 [1.6]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	10 [1.7]	7 [1.9]	6 [1.3]	9 [1.8]
Parathyroid Gland	(46)	(48)	(47)	(46)
Hyperplasia	2 [1.5]			
Pituitary Gland	(50)	(50)	(50)	(49)
Cyst	1 [2.0]	2 [3.5]	1 [3.0]	
Hemorrhage	4 [3.0]	2 [3.5]	5 [2.8]	
Pars Distalis, Hyperplasia	8 [1.9]	5 [2.0]	11 [1.5]	7 [1.7]
Thyroid Gland	(50)	(50)	(50)	(49)
Ultimobranchial Cyst				1 [2.0]
C-cell, Hyperplasia	32 [1.7]	31 [1.8]	29 [1.7]	34 [1.5]
Follicular Cell, Hyperplasia		1 [2.0]		
<b>GENERAL BODY SYSTEM</b>				
Peritoneum	(0)	(0)	(0)	(2)
Inflammation, Suppurative, Chronic				1 [4.0]
<b>GENITAL SYSTEM</b>				
Coagulating Gland	(3)	(0)	(1)	(2)
Hyperplasia	1 [3.0]			
Inflammation, Suppurative	2 [3.0]			
Epididymis	(50)	(50)	(50)	(50)
Penis	(0)	(3)	(1)	(1)
Concretion			1 [2.0]	
Hyperplasia, Squamous		1 [1.0]		
Preputial Gland	(50)	(50)	(49)	(50)
Ectasia			1 [2.0]	1 [3.0]
Hyperplasia	3 [3.3]			1 [2.0]
Inflammation, Suppurative, Chronic		1 [4.0]		
Inflammation, Chronic Active	30 [1.5]	33 [2.1]	31 [1.8]	37 [1.8]
Prostate	(50)	(50)	(50)	(50)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Hyperplasia	12 [1.3]	13 [1.4]	10 [1.6]	17 [1.4]
Inflammation, Suppurative, Chronic				1 [4.0]
Inflammation, Suppurative	38 [1.6]	42 [1.8]	40 [1.5]	36 [1.4]
Seminal Vesicle	(50)	(49)	(49)	(50)
Congestion			1 [3.0]	
Dilatation				1 [3.0]
Hyperplasia				1 [2.0]
Inflammation, Suppurative	2 [2.5]	1 [3.0]		2 [4.0]
Testes	(50)	(50)	(50)	(50)
Mineralization		1 [2.0]	1 [1.0]	
Germinal Epithelium, Atrophy	12 [2.7]	8 [3.3]	7 [2.6]	6 [2.8]
Interstitial Cell, Hyperplasia	1 [2.0]		2 [1.5]	1 [1.0]
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Thrombosis	1 [2.0]			
Lymph Node	(5)	(5)	(5)	(4)
Deep Cervical, Angiectasis			1 [3.0]	
Pancreatic, Angiectasis		2 [3.0]		
Pancreatic, Hemorrhage				1 [2.0]
Lymph Node, Bronchial	(3)	(6)	(5)	(8)
Angiectasis	1 [3.0]	2 [3.0]	2 [3.5]	
Fibrosis		1 [2.0]		
Hemorrhage	1 [2.0]	1 [2.0]	1 [3.0]	1 [2.0]
Hyperplasia, Lymphoid				4 [2.5]
Lymph Node, Mandibular	(3)	(1)	(0)	(6)
Angiectasis				1 [3.0]
Lymph Node, Mediastinal	(30)	(25)	(23)	(32)
Angiectasis			1 [3.0]	3 [3.0]
Hyperplasia, Lymphoid		1 [3.0]	1 [2.0]	2 [2.5]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Angiectasis		1 [3.0]	1 [3.0]	2 [2.5]
Hyperplasia, Lymphoid				1 [2.0]
Infiltration Cellular, Histiocyte			1 [3.0]	
Artery, Necrosis		1 [3.0]		
Spleen	(50)	(50)	(49)	(50)
Accessory Spleen	1		1	
Fibrosis	1 [2.0]	2 [3.0]	1 [2.0]	

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Hematopoietic Cell Proliferation	10 [1.2]	17 [1.8]	13 [1.8]	6 [2.2]
Hemorrhage, Chronic	4 [3.5]		1 [4.0]	3 [3.7]
Hyperplasia, Lymphoid		1 [2.0]		
Infarct, Chronic		1 [3.0]	2 [3.0]	3 [3.3]
Infiltration Cellular, Mononuclear Cell			1 [3.0]	
Thymus	(43)	(41)	(47)	(46)
Cyst			1 [4.0]	
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(40)	(36)	(39)	(36)
Galactocele	1 [3.0]	1 [4.0]		
Hyperplasia		1 [4.0]		
Epithelium, Hyperplasia	1 [1.0]	1 [2.0]		1 [1.0]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		1 [4.0]	1 [3.0]	
Foreign Body		1		
Hyperkeratosis	3 [2.7]		2 [3.0]	
Hyperplasia, Squamous				1 [1.0]
Inflammation, Suppurative, Chronic		1 [4.0]	2 [4.0]	10 [4.0]
Inflammation, Chronic Active	1 [2.0]	3 [3.3]	3 [3.0]	4 [2.5]
Thrombosis		1 [3.0]		
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)
Fibrosis				1 [4.0]
Hyperostosis				1 [1.0]
Inflammation, Suppurative, Chronic				2 [4.0]
Skeletal Muscle	(1)	(1)	(3)	(3)
Inflammation, Suppurative, Chronic				1 [4.0]
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Hemorrhage	1 [2.0]	1 [2.0]	2 [2.0]	2 [2.0]
Spinal Cord	(1)	(1)	(2)	(1)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>RESPIRATORY SYSTEM</b>				
Larynx	(50)	(50)	(50)	(50)
Foreign Body	6	1	5	1
Inflammation, Suppurative, Chronic				1 [4.0]
Inflammation, Chronic Active	21 [1.4]	28 [1.3]	31 [1.4]	26 [1.3]
Metaplasia, Squamous	4 [1.0]	6 [1.0]	8 [1.1]	5 [1.2]
Respiratory Epithelium, Hyperplasia	1 [1.0]		1 [1.0]	1 [2.0]
Lung	(50)	(50)	(50)	(50)
Foreign Body			1	
Hemorrhage	2 [2.0]	5 [2.0]	1 [2.0]	1 [2.0]
Inflammation, Suppurative, Chronic			1 [4.0]	3 [4.0]
Inflammation, Chronic Active	5 [2.0]			3 [1.7]
Metaplasia, Osseous		1 [2.0]		
Alveolar Epithelium, Hyperplasia	15 [1.6]	11 [1.8]	13 [1.8]	11 [1.1]
Alveolar Epithelium, Metaplasia, Squamous			1 [1.0]	
Alveolus, Infiltration Cellular, Histiocyte	16 [1.8]	14 [1.3]	13 [1.5]	11 [1.8]
Artery, Inflammation				1 [2.0]
Nose	(50)	(48)	(48)	(50)
Degeneration, Hyaline		1 [2.0]		
Foreign Body	11	10	15	11
Inflammation, Suppurative, Chronic		1 [4.0]	2 [4.0]	7 [4.0]
Inflammation, Chronic Active	29 [1.6]	33 [1.4]	34 [1.5]	35 [1.5]
Epithelium, Accumulation, Hyaline Droplet	44 [1.0]	39 [1.5]	36 [1.3]	44 [1.3]
Glands, Hyperplasia	5 [2.0]	14 [2.0]	14 [2.0]	15 [2.0]
Olfactory Epithelium, Atrophy			1 [1.0]	
Olfactory Epithelium, Metaplasia, Respiratory	7 [1.4]	10 [1.5]	12 [1.6]	12 [1.8]
Respiratory Epithelium, Hyperplasia	14 [1.6]	15 [1.8]	20 [1.7]	17 [1.9]
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]	1 [1.0]		2 [1.5]
Trachea	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	1 [2.0]	1 [1.0]	1 [1.0]	4 [1.5]
Epithelium, Hyperplasia	1 [2.0]			1 [2.0]

**SPECIAL SENSES SYSTEM**

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

1-Bromopropane

Time Report Requested: 10:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Eye	(49)	(49)	(50)	(50)
Inflammation, Chronic Active			1 [1.0]	2 [1.5]
Lens, Cataract	2 [3.0]		3 [3.0]	2 [3.0]
Retina, Degeneration		1 [1.0]		
Harderian Gland	(50)	(50)	(50)	(50)
Inflammation, Suppurative, Chronic				2 [4.0]
Lacrimal Gland	(1)	(0)	(0)	(0)
Inflammation, Chronic Active	1 [3.0]			
Zymbal's Gland	(0)	(1)	(2)	(2)
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(49)
Cyst			1 [3.0]	1 [3.0]
Inflammation, Suppurative	1 [3.0]			
Nephropathy, Chronic	44 [2.0]	45 [2.6]	39 [2.3]	44 [2.3]
Cortex, Infarct	1 [2.0]			
Cortex, Renal Tubule, Casts Granular			2 [1.0]	
Pelvis, Inflammation, Chronic Active				2 [2.0]
Urinary Bladder	(50)	(50)	(50)	(50)
Hemorrhage			1 [3.0]	
Inflammation, Chronic Active	1 [2.0]			1 [2.0]
Transitional Epithelium, Hyperplasia				1 [4.0]

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



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FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Accidently Killed				2
Moribund Sacrifice	13	17	17	23
Natural Death	3		3	1
Survivors				
Terminal Sacrifice	34	33	30	24
Animals Examined Microscopically	50	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Intestine Large, Colon	(47)	(50)	(48)	(49)
Intestine Large, Rectum	(47)	(50)	(48)	(49)
Inflammation, Suppurative				1 [1.0]
Necrosis				1 [1.0]
Intestine Small, Ileum	(46)	(50)	(47)	(48)
Intestine Small, Jejunum	(47)	(50)	(47)	(48)
Liver	(50)	(50)	(50)	(50)
Angiectasis	3 [2.7]	2 [3.5]	2 [2.5]	1 [3.0]
Basophilic Focus	40 [3.0]	43 [3.0]	42 [3.0]	39 [3.0]
Clear Cell Focus	30 [2.4]	34 [2.1]	35 [2.4]	35 [2.5]
Cyst	1 [2.0]			
Degeneration, Cystic				1 [2.0]
Eosinophilic Focus	1 [2.0]		1 [3.0]	
Hepatodiaphragmatic Nodule	4 [4.0]	9 [4.0]	5 [4.0]	5 [4.0]
Mixed Cell Focus	2 [3.0]	2 [3.0]	3 [3.0]	3 [2.3]
Necrosis	1 [3.0]		1 [2.0]	
Vacuolization Cytoplasmic	40 [2.1]	41 [1.9]	39 [2.1]	47 [2.5]
Bile Duct, Cyst				1 [3.0]
Serosa, Fibrosis	1 [2.0]			
Mesentery	(13)	(26)	(17)	(23)
Necrosis	13 [3.0]	26 [3.0]	16 [3.0]	22 [3.0]
Oral Mucosa	(2)	(0)	(1)	(1)
Foreign Body			1	1
Hyperplasia, Squamous	2 [2.5]		1 [3.0]	1 [2.0]
Inflammation, Chronic Active				1 [2.0]

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Pancreas	(50)	(50)	(50)	(50)
Acinus, Atrophy	9 [1.6]	12 [1.5]	7 [1.6]	7 [1.7]
Salivary Glands	(50)	(50)	(50)	(50)
Hyperplasia			1 [1.0]	
Inflammation, Chronic Active				1 [1.0]
Necrosis			1 [4.0]	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Hyperplasia, Basal Cell	1 [2.0]			1 [2.0]
Hyperplasia, Squamous	4 [2.0]		2 [2.0]	2 [2.0]
Ulcer	2 [2.5]	3 [1.7]	3 [2.0]	6 [1.8]
Stomach, Glandular	(50)	(50)	(50)	(50)
Erosion		1 [1.0]		
Ulcer	3 [1.7]	1 [1.0]	1 [2.0]	1 [2.0]
Tongue	(0)	(1)	(0)	(1)
Hyperplasia, Squamous		1 [2.0]		
Tooth	(0)	(0)	(1)	(0)
Inflammation, Chronic Active			1 [3.0]	
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	35 [1.4]	32 [1.4]	34 [1.4]	21 [1.4]
Atrium, Thrombosis	1 [3.0]			
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(50)	(50)	(50)
Degeneration, Cystic	1 [4.0]		1 [4.0]	
Hyperplasia	27 [1.8]	30 [1.7]	24 [1.8]	26 [2.0]
Necrosis				1 [2.0]
Vacuolization Cytoplasmic	12 [2.1]	16 [2.3]	16 [2.1]	11 [1.8]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	4 [2.5]	9 [1.7]	7 [1.4]	6 [1.7]
Metaplasia, Osseous	1 [3.0]			
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia		3 [3.0]	4 [2.0]	4 [2.5]
Metaplasia, Hepatocyte			2 [1.0]	1 [1.0]
Pituitary Gland	(50)	(50)	(50)	(50)
Cyst	2 [3.0]	1 [4.0]	2 [3.0]	2 [1.5]

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

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Test Type: CHRONIC

1-Bromopropane

Time Report Requested: 10:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Hemorrhage	2 [2.5]	4 [2.8]	5 [2.8]	3 [2.7]
Pars Distalis, Hyperplasia	7 [2.6]	11 [2.4]	7 [2.6]	7 [2.0]
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst	1 [2.0]	1 [2.0]		
C-cell, Hyperplasia	39 [2.2]	36 [1.9]	37 [1.8]	37 [1.8]
Follicular Cell, Hyperplasia		1 [2.0]	2 [2.0]	
<b>GENERAL BODY SYSTEM</b>				
None				
<b>GENITAL SYSTEM</b>				
Clitoral Gland	(49)	(50)	(49)	(49)
Hyperplasia	3 [3.0]	5 [3.0]	9 [2.8]	4 [4.0]
Inflammation, Chronic Active	22 [1.5]	26 [1.8]	26 [1.9]	18 [2.1]
Ovary	(50)	(50)	(50)	(50)
Cyst	3 [3.3]	1 [4.0]	7 [3.9]	3 [4.0]
Interstitial Cell, Hyperplasia			1 [4.0]	
Uterus	(50)	(50)	(50)	(50)
Congestion			1 [2.0]	
Cyst				1 [3.0]
Decidual Reaction				2 [3.5]
Hemorrhage		2 [3.5]		1 [4.0]
Hydrometra		1 [3.0]		
Inflammation, Chronic Active				1 [2.0]
Endometrium, Hyperplasia			1 [2.0]	
Vagina	(3)	(0)	(0)	(0)
Muscularis, Hypertrophy	2 [3.0]			
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia, Histiocytic	1 [4.0]	1 [4.0]	1 [4.0]	1 [4.0]
Lymph Node	(1)	(3)	(2)	(2)
Inflammation, Chronic Active	1 [3.0]			
Deep Cervical, Ectasia		1 [3.0]		
Deep Cervical, Hyperplasia, Lymphoid		1 [3.0]		

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Pancreatic, Hemorrhage				1 [3.0]
Lymph Node, Bronchial	(1)	(4)	(5)	(7)
Angiectasis	1 [2.0]		2 [3.0]	1 [3.0]
Hemorrhage			1 [2.0]	1 [2.0]
Lymph Node, Mediastinal	(34)	(30)	(31)	(28)
Angiectasis			2 [3.5]	2 [3.0]
Hemorrhage				2 [2.5]
Lymph Node, Mesenteric	(49)	(49)	(50)	(50)
Hemorrhage			1 [4.0]	
Hyperplasia, Lymphoid	1 [2.0]			
Infiltration Cellular, Histiocyte	1 [2.0]			1 [2.0]
Spleen	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	33 [1.8]	32 [1.9]	29 [1.8]	21 [1.7]
Hemorrhage, Chronic	1 [3.0]		1 [3.0]	2 [3.5]
Infarct, Chronic	1 [3.0]	1 [4.0]	1 [3.0]	1 [3.0]
Inflammation, Granulomatous		2 [4.0]		
Lymphoid Follicle, Atrophy		1 [2.0]		
Thymus	(46)	(45)	(45)	(43)
Cyst	1 [2.0]			
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(50)	(50)	(50)	(50)
Galactocele	1 [4.0]		3 [4.0]	1 [3.0]
Hyperplasia	1 [4.0]			
Inflammation, Chronic Active			1 [2.0]	1 [3.0]
Skin	(50)	(50)	(50)	(50)
Hyperkeratosis	1 [2.0]	2 [2.0]	2 [2.5]	
Hyperplasia, Squamous		1 [2.0]		
Inflammation, Suppurative, Chronic		1 [4.0]		1 [4.0]
Inflammation, Chronic Active	1 [2.0]	2 [2.5]	1 [2.0]	
Ulcer		1 [2.0]	1 [2.0]	
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)
Fracture				1 [4.0]
Inflammation, Suppurative, Chronic				1 [4.0]
Skeletal Muscle	(0)	(0)	(1)	(4)

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FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Angiectasis		1 [3.0]		
Hemorrhage			1 [2.0]	
Spinal Cord	(0)	(1)	(0)	(3)
Cyst Epithelial Inclusion				1 [3.0]
<b>RESPIRATORY SYSTEM</b>				
Larynx	(50)	(50)	(50)	(50)
Foreign Body	8	6	3	4
Inflammation, Suppurative, Chronic				3 [4.0]
Inflammation, Chronic Active	18 [1.1]	25 [1.5]	30 [1.4]	32 [1.5]
Metaplasia, Squamous	3 [1.3]	2 [1.5]	6 [1.3]	21 [1.7]
Necrosis				1 [1.0]
Respiratory Epithelium, Hyperplasia		1 [1.0]		
Lung	(50)	(50)	(50)	(50)
Hemorrhage	4 [2.3]	6 [2.3]	4 [2.5]	4 [2.0]
Inflammation, Suppurative, Chronic				4 [4.0]
Inflammation, Chronic Active	6 [2.2]	10 [2.0]	12 [1.7]	2 [2.0]
Alveolar Epithelium, Hyperplasia	11 [1.3]	10 [1.6]	16 [1.9]	8 [1.5]
Alveolus, Infiltration Cellular, Histiocyte	30 [1.4]	30 [1.8]	29 [1.8]	26 [1.5]
Nose	(50)	(50)	(49)	(50)
Foreign Body	6	6	6	9
Inflammation, Suppurative, Chronic		1 [4.0]	3 [4.0]	7 [4.0]
Inflammation, Chronic Active	24 [1.3]	37 [1.5]	37 [1.5]	36 [1.3]
Epithelium, Accumulation, Hyaline Droplet	48 [1.1]	48 [1.8]	48 [1.7]	47 [1.9]
Glands, Hyperplasia	6 [2.0]	23 [2.0]	28 [2.0]	30 [2.0]
Olfactory Epithelium, Hyperplasia	1 [1.0]			
Olfactory Epithelium, Metaplasia, Respiratory	3 [1.7]	4 [1.8]	6 [1.8]	9 [2.2]
Respiratory Epithelium, Hyperplasia	5 [1.2]	13 [1.3]	9 [1.7]	18 [1.5]
Respiratory Epithelium, Metaplasia, Squamous	1 [2.0]	1 [2.0]	5 [1.0]	1 [2.0]
Pleura	(0)	(0)	(1)	(0)
Trachea	(50)	(50)	(50)	(50)

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Inflammation, Chronic Active Epithelium, Hyperplasia Epithelium, Metaplasia, Squamous Epithelium, Necrosis		4 [1.0]	1 [1.0]	6 [1.7] 4 [1.8] 1 [2.0] 1 [2.0]
<b>SPECIAL SENSES SYSTEM</b>				
Ear Inflammation, Suppurative, Chronic	(0)	(0)	(1)	(1) 1 [4.0]
Eye Cornea, Inflammation, Chronic Active Lens, Cataract	(50)	(50)	(50)	(50)
Harderian Gland Inflammation, Suppurative, Chronic Inflammation, Chronic Active	4 [3.0] (50)	3 [3.0] (50)	5 [3.0] (50)	2 [3.0] (50) 1 [4.0] 1 [2.0]
Zymbal's Gland	(1)	(1)	(2)	(0)
<b>URINARY SYSTEM</b>				
Kidney Cyst Nephropathy, Chronic Cortex, Infarct Cortex, Renal Tubule, Accumulation, Hyaline Droplet Pelvis, Inflammation, Suppurative Pelvis, Inflammation, Chronic Active	(49) 1 [3.0] 35 [1.7]	(50) 1 [4.0] 35 [2.0]	(50) 1 [2.0] 1 [4.0] 1 [1.0] 1 [1.0]	(50) 29 [1.9]

\*\*\* END OF REPORT \*\*\*