

TDMS No. 93020 - 07

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

**Date Report Requested:** 08/08/2005

**Test Type:** CHRONIC

DIISOPROPYLCARBODIIMIDE

**Time Report Requested:** 08:54:04

**Route:** SKIN APPLICATION

**CAS Number:** 693-13-0

**First Dose M/F:** 04/24/00 / 04/24/00

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

**Pathologist:** HEATH, J. - DURBIN, L. - ALLISON, M.

**Lab:** SRI

Final #2/Rats

**C Number:** C93020D  
**Lock Date:** 03/14/2003  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL

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

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	18	12	10	23
Natural Death	12	8	8	10
Survivors				
Terminal Sacrifice	20	30	32	17
Animals Examined Microscopically	50	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Ulcer	1 [2.0]			
Edema	1 [3.0]	2 [2.5]	4 [2.8]	2 [3.0]
Hemorrhage			1 [2.0]	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Inflammation, Chronic Active		1 [3.0]		
Intestine Small, Duodenum	(49)		(49)	(49)
Epithelium, Hyperplasia		1 [3.0]	2 [3.0]	1 [2.0]
Liver	(50)	(50)	(50)	(50)
Angiectasis	2 [1.5]	2 [3.0]	1 [2.0]	1 [3.0]
Clear Cell Focus	16	11	14	8
Mixed Cell Focus	4	6	6	4
Basophilic Focus	14	14	22	9
Hepatodiaphragmatic Nodule	5	5	7	8
Eosinophilic Focus	6	2	7	4
Degeneration, Cystic	3 [2.0]	5 [2.0]	4 [2.3]	
Necrosis, Focal		1 [2.0]	1 [3.0]	
Infiltration Cellular, Mixed Cell		2 [2.0]	4 [2.0]	
Regeneration		1 [2.0]	1 [3.0]	
Hemorrhage			2 [2.5]	1 [2.0]
Metaplasia, Atypical				1 [3.0]
Cyst				1 [3.0]
Bile Duct, Hyperplasia	33 [1.6]	36 [2.1]	31 [1.7]	17 [1.7]
Centrilobular, Necrosis	4 [2.0]	3 [2.0]	2 [2.0]	
Hepatocyte, Vacuolization Cytoplasmic	6 [3.2]	6 [3.3]	7 [3.3]	1 [3.0]
Kupffer Cell, Pigmentation		2 [2.5]		

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Mesentery	(9)	(9)	(12)	(6)
Accessory Spleen	1			
Fat, Necrosis	7 [2.7]	6 [3.2]	8 [2.8]	3 [2.7]
Pancreas	(50)	(50)	(50)	(50)
Atrophy	18 [1.9]	28 [2.2]	32 [1.9]	21 [2.3]
Cyst	2 [3.0]	3 [3.0]	5 [3.0]	3 [3.0]
Hemorrhage			1 [3.0]	
Acinus, Cytoplasmic Alteration		1 [3.0]	1 [3.0]	1 [3.0]
Acinus, Hyperplasia, Focal	2 [2.0]	5 [2.2]	4 [2.0]	
Salivary Glands	(49)	(50)	(50)	(50)
Atrophy	1 [2.0]		1 [3.0]	2 [2.0]
Necrosis			1 [2.0]	1 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(49)
Inflammation, Chronic	2 [2.5]	1 [2.0]		2 [3.0]
Ulcer	7 [3.0]	6 [3.2]	6 [3.5]	2 [4.0]
Erosion	1 [2.0]	1 [1.0]	1 [2.0]	
Edema	3 [3.0]	3 [3.0]	5 [3.4]	2 [3.5]
Perforation	1		1	
Diverticulum		1		
Epithelium, Hyperplasia	7 [2.9]	6 [3.3]	8 [2.5]	5 [2.2]
Stomach, Glandular	(50)	(50)	(50)	(49)
Inflammation, Chronic	1 [3.0]	1 [2.0]		
Erosion	7 [2.6]	6 [2.3]	3 [3.0]	3 [2.0]
Ulcer	4 [2.8]	2 [2.5]	3 [2.3]	1 [2.0]
Cyst		1 [3.0]	1 [3.0]	
Edema		2 [3.0]		
Glands, Hyperplasia	2 [2.0]		1 [2.0]	1 [2.0]
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	41 [2.1]	44 [2.3]	44 [2.4]	36 [1.7]
Thrombosis	5 [3.0]	1 [4.0]	5 [3.4]	
Inflammation, Chronic		1 [3.0]	1 [3.0]	
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(49)	(50)	(50)
Degeneration, Fatty	12 [2.2]	11 [1.8]	15 [2.2]	8 [2.0]

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Species/Strain: RATS/F 344

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Hyperplasia, Diffuse	1 [3.0]			
Hyperplasia, Focal	8 [1.5]	8 [1.5]	5 [1.8]	5 [1.6]
Accessory Adrenal Cortical Nodule	17 [3.0]	16 [3.0]	16 [3.0]	9 [3.0]
Hypertrophy, Focal	3 [2.0]	2 [1.5]	7 [2.0]	3 [1.7]
Adrenal Medulla	(50)	(48)	(50)	(50)
Hyperplasia	7 [1.9]	9 [1.6]	16 [1.8]	3 [1.7]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	2 [2.0]			
Parathyroid Gland	(49)	(48)	(49)	(48)
Hyperplasia		1 [2.0]		
Hyperplasia, Focal				1 [2.0]
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Angiectasis		4 [2.3]	1 [3.0]	2 [2.5]
Pars Distalis, Cyst	2 [3.0]	3 [3.0]	1 [3.0]	1 [3.0]
Pars Distalis, Hyperplasia, Focal	3 [1.0]	7 [2.0]	7 [2.3]	5 [2.8]
Pars Intermedia, Cyst		1 [3.0]	1 [3.0]	1 [3.0]
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst	1 [3.0]			2 [3.0]
C-cell, Hyperplasia	8 [1.8]	12 [2.0]	3 [1.3]	3 [1.3]
Follicle, Cyst	4 [3.0]	5 [3.0]	2 [3.0]	3 [3.0]
Follicular Cell, Hyperplasia	3 [1.7]		1 [2.0]	

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm				1 [2.0]
Preputial Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic	18 [2.0]	26 [2.0]	17 [2.1]	9 [2.1]
Hyperplasia	2 [2.0]			1 [2.0]
Cyst		2 [3.0]	2 [3.0]	1 [3.0]
Prostate	(50)	(50)	(50)	(50)
Inflammation, Chronic	40 [2.4]	32 [2.3]	35 [2.4]	25 [2.0]
Epithelium, Hyperplasia	4 [1.8]	10 [1.5]	2 [1.5]	3 [1.7]
Testes	(50)	(50)	(50)	(50)
Germinal Epithelium, Atrophy	12 [2.0]	11 [2.1]	24 [2.3]	14 [2.6]

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Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Interstitial Cell, Hyperplasia	6 [1.3]	6 [1.5]	8 [1.3]	8 [1.5]
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Myelofibrosis	2 [2.0]	1 [3.0]		
Hyperplasia	3 [2.7]	7 [2.9]	3 [3.0]	1 [2.0]
Infiltration Cellular, Histiocyte			1 [3.0]	1 [4.0]
Lymph Node	(18)	(14)	(16)	(13)
Mediastinal, Ectasia	3 [3.0]	1 [3.0]	1 [4.0]	
Mediastinal, Hemorrhage	2 [3.5]	1 [2.0]	4 [2.5]	6 [2.8]
Mediastinal, Hyperplasia, Lymphoid	7 [2.9]	5 [2.6]	5 [3.2]	7 [2.4]
Mediastinal, Pigmentation	2 [2.0]	3 [2.3]	5 [2.6]	3 [2.3]
Pancreatic, Ectasia			1 [4.0]	
Pancreatic, Hemorrhage	2 [4.0]		2 [2.0]	2 [2.5]
Pancreatic, Hyperplasia, Lymphoid		1 [2.0]	2 [3.0]	
Pancreatic, Pigmentation	1 [3.0]	1 [2.0]		3 [2.0]
Lymph Node, Mandibular	(0)	(1)	(4)	(1)
Ectasia			2 [3.0]	
Hemorrhage				1 [1.0]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hemorrhage	10 [1.8]	3 [1.3]	11 [1.5]	6 [1.5]
Hyperplasia, Lymphoid	18 [2.2]	15 [2.2]	20 [2.1]	15 [2.1]
Ectasia	3 [2.3]	5 [2.8]	3 [2.3]	1 [2.0]
Pigmentation	15 [2.0]	8 [2.1]	16 [2.0]	12 [2.0]
Spleen	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	10 [1.8]	9 [2.0]	11 [2.1]	4 [1.8]
Pigmentation	9 [2.9]	5 [2.8]	6 [2.3]	25 [2.6]
Fibrosis	2 [2.5]	3 [3.0]	2 [3.0]	2 [2.5]
Necrosis	2 [3.5]	1 [3.0]	1 [4.0]	1 [3.0]
Hemorrhage		1 [4.0]		
Lymphoid Follicle, Atrophy	1 [3.0]		1 [3.0]	2 [2.0]
Lymphoid Follicle, Hyperplasia		1 [3.0]		1 [2.0]
Thymus	(49)	(46)	(46)	(49)
Hemorrhage	1 [2.0]			5 [2.4]
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(49)	(48)	(47)	(48)

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Hyperplasia Skin	31 [3.1] (49)	25 [2.8] (50)	29 [3.0] (50)	10 [2.7] (50)
Inflammation, Chronic	5 [3.6]	1 [4.0]	2 [4.0]	2 [2.5]
Ulcer	4 [3.5]	5 [3.4]	5 [4.0]	4 [3.5]
Cyst Epithelial Inclusion		4	2	
Epidermis, Hyperplasia	9 [3.6]	7 [3.6]	8 [3.5]	6 [3.5]
Epidermis, Skin, Site Of Application, Hyperplasia	1 [1.0]	10 [1.0]	29 [1.1]	19 [1.1]
Skin, Site Of Application, Erosion			1 [1.0]	
Skin, Site Of Application, Inflammation, Chronic		6 [1.0]	12 [1.0]	11 [1.0]
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)
Cranium, Osteopetrosis				1 [3.0]
Femur, Osteopetrosis	1 [2.0]			
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Compression	16 [3.2]	10 [3.0]	15 [3.1]	4 [3.5]
Hydrocephalus	7 [2.0]	1 [2.0]	5 [2.0]	2 [2.5]
Hemorrhage	1 [1.0]		3 [1.7]	11 [2.5]
Gliosis			1 [2.0]	2 [1.0]
Arteriole, Necrosis, Fibrinoid				5 [1.8]
Neuron, Necrosis		1 [1.0]		16 [1.9]
<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(50)	(50)	(50)
Infiltration Cellular, Histiocyte	21 [1.5]	19 [1.5]	21 [1.3]	12 [1.3]
Hemorrhage	6 [1.7]	6 [2.0]	7 [2.1]	17 [2.0]
Inflammation, Chronic	9 [1.2]	13 [1.2]	16 [1.4]	12 [1.8]
Edema	2 [2.5]	2 [2.5]		2 [2.5]
Metaplasia, Osseous		2 [2.5]	2 [1.5]	1 [1.0]
Alveolar Epithelium, Hyperplasia	10 [1.3]	4 [2.5]	6 [2.0]	6 [2.5]
Nose	(50)	(50)	(50)	(50)

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Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Foreign Body	13	22	12	12
Inflammation, Chronic	15 [2.2]	22 [1.5]	13 [1.8]	11 [1.6]
Respiratory Epithelium, Hyperplasia	11 [1.8]	11 [1.7]	8 [1.9]	9 [1.3]
Respiratory Epithelium, Metaplasia, Squamous	2 [2.0]			1 [1.0]
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(50)	(50)	(50)	(50)
Cataract		1 [3.0]	2 [2.0]	1 [2.0]
Cornea, Hyperplasia			1 [2.0]	5 [2.4]
Cornea, Inflammation, Chronic		1 [1.0]	5 [1.8]	23 [1.7]
Cornea, Ulcer				1 [3.0]
Retina, Degeneration	4 [1.8]	1 [3.0]	6 [2.0]	3 [2.0]
Harderian Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic		1 [3.0]	1 [2.0]	
Hyperplasia, Focal		1 [2.0]		1 [2.0]
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(50)
Nephropathy	43 [2.2]	46 [1.8]	42 [2.3]	30 [1.4]
Inflammation, Chronic	3 [2.7]	5 [2.4]	9 [2.3]	1 [3.0]
Cyst				1 [3.0]
Renal Tubule, Accumulation, Hyaline Droplet		1 [3.0]		
Renal Tubule, Dilatation		1 [3.0]		1 [2.0]
Renal Tubule, Hyperplasia	1 [2.0]			
Renal Tubule, Necrosis	2 [3.0]		2 [3.5]	
Renal Tubule, Pigmentation	2 [3.0]	4 [2.8]		
Transitional Epithelium, Hyperplasia			1 [2.0]	
Urethra	(0)	(0)	(1)	(0)
Angiectasis			1 [4.0]	
Urinary Bladder	(50)	(50)	(50)	(49)
Hemorrhage			1 [2.0]	3 [3.0]
Inflammation, Chronic			2 [2.5]	4 [2.5]
Transitional Epithelium, Hyperplasia			1 [4.0]	

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Time Report Reqsted: 08:54:04

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First Dose M/F: 04/24/00 / 04/24/00

Species/Strain: RATS/F 344

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Lab: SRI

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FISCHER 344 RATS MALE

0 MG/KG

10 MG/KG

20 MG/KG

40 MG/KG

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

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

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	13	9	10	14
Natural Death	7	9	8	10
Survivors				
Terminal Sacrifice	30	32	32	25
Other				1
Animals Examined Microscopically	50	50	50	49
<b>ALIMENTARY SYSTEM</b>				
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Edema	1 [2.0]	3 [2.0]	1 [3.0]	2 [3.0]
Inflammation, Chronic		1 [3.0]		
Intestine Large, Rectum	(50)	(48)	(43)	(44)
Hemorrhage				1 [2.0]
Intestine Small, Duodenum	(49)	(50)	(50)	(49)
Epithelium, Hyperplasia	1 [1.0]			
Intestine Small, Jejunum	(47)	(50)	(50)	(46)
Epithelium, Hyperplasia			1 [1.0]	
Liver	(50)	(50)	(50)	(49)
Basophilic Focus	42	43	45	40
Infiltration Cellular, Mixed Cell	8 [1.8]	11 [1.5]	13 [1.6]	8 [1.4]
Mixed Cell Focus	3	5	7	1
Hematopoietic Cell Proliferation	1 [1.0]		1 [1.0]	
Necrosis, Focal	5 [1.4]	1 [1.0]	3 [1.7]	4 [1.5]
Eosinophilic Focus	4	3	8	5
Clear Cell Focus	10	6	4	4
Hepatodiaphragmatic Nodule	11	6	12	8
Regeneration	1 [2.0]			2 [2.5]
Hemorrhage		1 [2.0]	2 [2.0]	1 [3.0]
Cyst			1 [3.0]	
Angiectasis			1 [2.0]	1 [2.0]
Bile Duct, Hyperplasia	5 [1.6]	3 [1.3]	2 [1.5]	5 [1.8]
Centrilobular, Necrosis	1 [2.0]			2 [1.5]
Hepatocyte, Vacuolization Cytoplasmic	5 [2.8]	5 [2.8]	3 [3.0]	4 [3.0]

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Kupffer Cell, Pigmentation	1 [2.0]	1 [2.0]		1 [2.0]
Mesentery	(11)	(12)	(9)	(9)
Fat, Necrosis	11 [2.9]	11 [2.7]	8 [3.0]	9 [2.7]
Oral Mucosa	(1)	(0)	(2)	(0)
Cyst			1 [3.0]	
Pancreas	(50)	(50)	(50)	(49)
Atrophy	15 [1.5]	16 [2.1]	18 [1.8]	19 [2.1]
Cyst	4 [3.0]	6 [3.0]	5 [3.0]	
Necrosis				1 [3.0]
Acinus, Cytoplasmic Alteration		1 [3.0]	1 [3.0]	
Acinus, Hyperplasia, Focal		1 [2.0]	1 [2.0]	
Salivary Glands	(50)	(50)	(50)	(48)
Atrophy	3 [2.0]	1 [3.0]	1 [3.0]	1 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(49)
Ulcer	3 [3.7]		1 [4.0]	4 [3.5]
Edema	2 [2.5]		1 [3.0]	2 [2.5]
Epithelium, Hyperplasia	4 [2.5]		2 [2.5]	2 [2.5]
Stomach, Glandular	(50)	(50)	(50)	(49)
Erosion	1 [3.0]	1 [3.0]	2 [3.0]	4 [2.3]
Ulcer		1 [2.0]	1 [2.0]	1 [2.0]
Edema			1 [3.0]	1 [3.0]
Glands, Hyperplasia	1 [1.0]		1 [1.0]	
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(50)	(50)	(50)	(49)
Cardiomyopathy	30 [1.5]	39 [1.8]	35 [1.9]	31 [1.5]
Thrombosis	1 [4.0]	1 [4.0]	1 [3.0]	1 [3.0]
Inflammation, Chronic		1 [3.0]		1 [3.0]
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(50)	(50)	(49)
Degeneration, Fatty	20 [2.1]	15 [2.5]	16 [2.5]	17 [2.1]
Hyperplasia, Focal	3 [1.7]		4 [2.3]	5 [1.0]
Hypertrophy, Focal	10 [2.3]	10 [2.2]	9 [1.8]	8 [2.4]
Accessory Adrenal Cortical Nodule	9 [3.0]	6 [3.0]	9 [3.0]	8 [3.0]
Adrenal Medulla	(49)	(50)	(50)	(49)
Hyperplasia	5 [1.2]	2 [1.0]	4 [2.0]	2 [1.0]

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Test Type: CHRONIC

Time Report Requested: 08:54:04

Route: SKIN APPLICATION

CAS Number: 693-13-0

First Dose M/F: 04/24/00 / 04/24/00

Species/Strain: RATS/F 344

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Islets, Pancreatic	(50)	(50)	(50)	(49)
Hyperplasia	1 [2.0]		2 [2.0]	
Metaplasia, Hepatocyte		1 [2.0]		
Pituitary Gland	(50)	(50)	(50)	(49)
Pars Distalis, Angiectasis	1 [2.0]	6 [2.5]	4 [2.8]	4 [3.5]
Pars Distalis, Cyst	16 [3.0]	6 [3.0]	15 [3.0]	14 [3.0]
Pars Distalis, Hyperplasia, Focal	7 [2.3]	7 [2.0]	10 [2.4]	11 [2.2]
Pars Intermedia, Angiectasis		1 [2.0]	2 [3.0]	2 [2.5]
Pars Intermedia, Cyst	1 [3.0]	1 [3.0]	2 [3.0]	
Thyroid Gland	(50)	(50)	(50)	(49)
Ultimobranchial Cyst				2 [3.0]
C-cell, Hyperplasia	17 [1.6]	14 [1.5]	10 [1.8]	12 [1.6]
Follicle, Cyst	2 [3.0]	2 [3.0]	3 [3.0]	1 [3.0]
Follicular Cell, Hyperplasia	1 [1.0]		1 [1.0]	1 [2.0]

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(50)	(49)
Inflammation, Chronic	13 [2.3]	2 [2.0]	10 [2.3]	3 [2.0]
Cyst	1 [3.0]	3 [3.0]	1 [3.0]	3 [3.0]
Hyperplasia		2 [2.0]	2 [1.0]	
Ovary	(50)	(50)	(50)	(49)
Cyst	11 [3.0]	8 [3.0]	9 [3.0]	6 [3.0]
Angiectasis	1 [4.0]			
Corpus Luteum, Hyperplasia	1 [3.0]			
Uterus	(50)	(50)	(50)	(49)
Endometrium, Hyperplasia, Cystic	4 [2.8]	10 [2.2]	5 [2.2]	9 [2.4]
Vagina	(6)	(6)	(5)	(11)
Inflammation, Chronic	1 [4.0]			
Cyst	1 [4.0]	1		

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(49)
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Time Report Requested: 08:54:04

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CAS Number: 693-13-0

First Dose M/F: 04/24/00 / 04/24/00

Species/Strain: RATS/F 344

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Hyperplasia	6 [3.2]	8 [2.6]	3 [2.7]	6 [2.7]
Myelofibrosis		1 [2.0]	2 [3.0]	2 [2.0]
Infiltration Cellular, Histiocyte				2 [3.0]
Lymph Node	(13)	(10)	(14)	(8)
Deep Cervical, Hemorrhage		1 [4.0]		
Deep Cervical, Hyperplasia, Lymphoid		1 [2.0]		
Deep Cervical, Pigmentation		1 [2.0]		
Mediastinal, Ectasia			1 [2.0]	
Mediastinal, Hemorrhage	4 [1.8]	4 [3.0]	4 [1.8]	3 [2.0]
Mediastinal, Hyperplasia, Lymphoid	3 [2.0]	5 [3.0]	7 [2.4]	
Mediastinal, Pigmentation	6 [2.7]	6 [2.7]	9 [2.8]	2 [2.5]
Pancreatic, Hemorrhage	1 [1.0]	3 [2.0]	1 [2.0]	1 [2.0]
Pancreatic, Hyperplasia, Lymphoid		1 [2.0]		
Pancreatic, Pigmentation	1 [2.0]	2 [2.5]	1 [3.0]	1 [3.0]
Lymph Node, Mandibular	(3)	(7)	(1)	(2)
Ectasia	1 [2.0]	4 [2.5]		1 [2.0]
Hyperplasia, Lymphoid	1 [2.0]			
Pigmentation	1 [2.0]	1 [2.0]		
Lymph Node, Mesenteric	(50)	(50)	(50)	(48)
Pigmentation	25 [2.1]	24 [2.1]	27 [2.0]	17 [2.0]
Hemorrhage	11 [1.5]	11 [1.1]	6 [1.5]	5 [1.8]
Hyperplasia, Lymphoid	16 [2.3]	20 [2.3]	12 [2.1]	11 [2.3]
Ectasia		1 [3.0]		1 [3.0]
Necrosis				1 [3.0]
Spleen	(50)	(50)	(50)	(49)
Pigmentation	10 [3.0]	16 [3.1]	13 [3.1]	16 [3.0]
Hematopoietic Cell Proliferation	21 [2.0]	29 [1.7]	29 [1.7]	20 [1.8]
Necrosis	1 [3.0]	1 [3.0]	2 [4.0]	
Fibrosis		1 [2.0]		2 [3.0]
Hemorrhage				2 [3.0]
Hyperplasia, Reticulum Cell				1 [3.0]
Lymphoid Follicle, Atrophy		2 [3.0]		1 [3.0]
Lymphoid Follicle, Hyperplasia	1 [3.0]		3 [3.3]	1 [3.0]
Thymus	(50)	(48)	(49)	(46)
Hyperplasia, Lymphoid	1 [3.0]	2 [2.5]	1 [3.0]	1 [2.0]
Hemorrhage	2 [1.5]	2 [2.0]	1 [2.0]	1 [3.0]

### INTEGUMENTARY SYSTEM

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Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Mammary Gland	(50)	(50)	(50)	(48)
Hyperplasia	45 [3.0]	46 [2.9]	45 [2.9]	41 [2.7]
Skin	(50)	(50)	(50)	(49)
Inflammation, Chronic	2 [3.5]	1 [1.0]		
Cyst Epithelial Inclusion		1		
Ulcer			1 [4.0]	
Epidermis, Skin, Site Of Application, Hyperplasia	1 [1.0]	5 [1.0]	16 [1.0]	21 [1.0]
Epidermis, Hyperplasia	2 [3.5]	2 [1.5]	2 [2.5]	1 [2.0]
Skin, Site Of Application, Inflammation, Chronic			3 [1.0]	10 [1.0]
<hr/>				
<b>MUSCULOSKELETAL SYSTEM</b>				
None				
<hr/>				
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(49)
Compression	14 [2.9]	13 [3.7]	14 [3.3]	13 [3.1]
Hydrocephalus	2 [2.5]	8 [2.3]	1 [2.0]	2 [2.0]
Necrosis	2 [2.5]	1 [2.0]	2 [2.5]	
Gliosis	1 [3.0]	1 [3.0]	2 [2.5]	
Hemorrhage	1 [1.0]	8 [1.4]		
Angiectasis	1 [3.0]		1 [2.0]	
<hr/>				
<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(50)	(50)	(49)
Inflammation, Chronic	10 [1.9]	22 [1.5]	19 [1.5]	10 [1.1]
Infiltration Cellular, Histiocyte	22 [1.2]	26 [1.2]	30 [1.5]	27 [1.2]
Hemorrhage	8 [1.6]	14 [1.9]	9 [1.8]	13 [1.8]
Metaplasia, Squamous	1 [3.0]		1 [2.0]	
Edema	4 [2.0]	4 [2.8]	3 [3.0]	2 [2.5]
Metaplasia, Osseous			2 [1.0]	1 [1.0]
Emphysema			1 [4.0]	
Pigmentation				1 [2.0]
Alveolar Epithelium, Hyperplasia	3 [1.3]	4 [2.3]	10 [1.9]	1 [1.0]

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Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	40 MG/KG
Nose	(50)	(50)	(50)	(49)
Foreign Body	5		2	3
Inflammation, Chronic	6 [1.7]	1 [1.0]	2 [1.5]	3 [2.3]
Respiratory Epithelium, Hyperplasia	4 [1.8]	1 [1.0]	2 [1.5]	1 [2.0]
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(50)	(50)	(50)	(49)
Cataract	2 [3.0]	5 [2.6]	3 [3.0]	3 [2.3]
Cornea, Hyperplasia				3 [1.7]
Cornea, Inflammation, Chronic	1 [1.0]	1 [4.0]		3 [1.3]
Retina, Degeneration	4 [3.0]	7 [3.0]	5 [2.8]	4 [2.5]
Retina, Dysplasia			1 [1.0]	
Harderian Gland	(50)	(50)	(50)	(49)
Hyperplasia, Focal	1 [1.0]			
Inflammation, Chronic		1 [4.0]		
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(49)
Nephropathy	32 [2.1]	32 [1.6]	28 [2.0]	21 [1.7]
Inflammation, Suppurative	1 [4.0]			
Cyst	1 [3.0]			
Inflammation, Chronic	2 [2.0]	2 [2.0]	1 [2.0]	
Infarct	1 [1.0]		1 [3.0]	
Hemorrhage				1 [3.0]
Papilla, Necrosis				1 [4.0]
Renal Tubule, Accumulation, Hyaline Droplet	2 [2.5]	1 [4.0]		2 [2.5]
Renal Tubule, Dilatation	1 [2.0]		1 [2.0]	1 [2.0]
Renal Tubule, Necrosis	1 [2.0]	2 [2.0]		2 [2.5]
Transitional Epithelium, Hyperplasia			1 [3.0]	
Urinary Bladder	(50)	(50)	(50)	(49)
Hemorrhage			1 [3.0]	

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

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