

TDMS No. 88133 - 07
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Trimethylolpropane triacrylate

CAS Number: 15625-89-5

Date Report Requested: 03/31/2010

Time Report Requested: 13:41:41

First Dose M/F: 01/18/05 / 01/18/05

Lab: SRI

C Number: C88133C
Lock Date: 10/30/2007
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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FISCHER 344 RATS MALE	0 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG
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Disposition Summary

Animals Initially In Study	65	65	65	65
Scheduled Sacrifice	15	15	15	15
Early Deaths				
Accidentally Killed		1		
Moribund Sacrifice	19	24	19	16
Natural Death	8	7	3	11
Survivors				
Terminal Sacrifice	23	18	28	23
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Intestine Large, Cecum	(50)	(50)	(49)	(50)
Edema	3 (6%)	1 (2%)	3 (6%)	1 (2%)
Inflammation, Suppurative			1 (2%)	
Intestine Large, Colon	(50)	(49)	(49)	(50)
Intestine Large, Rectum	(49)	(48)	(50)	(50)
Edema	1 (2%)		1 (2%)	
Intestine Small, Duodenum	(50)	(49)	(50)	(50)
Epithelium, Hyperplasia	8 (16%)	5 (10%)	3 (6%)	3 (6%)
Intestine Small, Ileum	(49)	(47)	(48)	(48)
Intestine Small, Jejunum	(48)	(44)	(48)	(49)
Ulcer			1 (2%)	
Epithelium, Hyperplasia			1 (2%)	
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 (2%)	1 (2%)	4 (8%)	
Basophilic Focus	20 (40%)	19 (38%)	29 (58%)	23 (46%)
Clear Cell Focus	11 (22%)	10 (20%)	14 (28%)	16 (32%)
Degeneration, Cystic	4 (8%)	2 (4%)	1 (2%)	3 (6%)
Eosinophilic Focus	4 (8%)	4 (8%)	6 (12%)	4 (8%)
Fibrosis, Focal			1 (2%)	
Hematopoietic Cell Proliferation	3 (6%)			3 (6%)
Hemorrhage			1 (2%)	
Hepatodiaphragmatic Nodule	5 (10%)	5 (10%)	6 (12%)	11 (22%)

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Infiltration Cellular, Mixed Cell	5 (10%)	6 (12%)	5 (10%)	4 (8%)
Inflammation, Suppurative	1 (2%)			1 (2%)
Inflammation, Chronic				3 (6%)
Mixed Cell Focus	10 (20%)	8 (16%)	11 (22%)	11 (22%)
Necrosis	2 (4%)			
Necrosis, Focal	2 (4%)	3 (6%)		1 (2%)
Thrombosis	1 (2%)	1 (2%)	1 (2%)	
Bile Duct, Hyperplasia	38 (76%)	27 (54%)	21 (42%)	30 (60%)
Centrilobular, Necrosis	9 (18%)	11 (22%)	4 (8%)	3 (6%)
Hepatocyte, Vacuolization Cytoplasmic	17 (34%)	10 (20%)	12 (24%)	19 (38%)
Kupffer Cell, Pigmentation	1 (2%)	1 (2%)		
Oval Cell, Hyperplasia	2 (4%)			1 (2%)
Mesentery	(18)	(13)	(16)	(16)
Accessory Spleen	3 (17%)	3 (23%)	1 (6%)	1 (6%)
Hemorrhage	1 (6%)			
Fat, Necrosis	14 (78%)	10 (77%)	11 (69%)	11 (69%)
Oral Mucosa	(0)	(0)	(1)	(1)
Cyst			1 (100%)	
Pancreas	(50)	(50)	(50)	(50)
Atrophy	25 (50%)	24 (48%)	24 (48%)	20 (40%)
Cyst	8 (16%)	9 (18%)	6 (12%)	8 (16%)
Necrosis		1 (2%)		
Acinus, Cytoplasmic Alteration	3 (6%)	5 (10%)	5 (10%)	5 (10%)
Acinus, Hyperplasia, Focal	3 (6%)	1 (2%)	1 (2%)	6 (12%)
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	8 (16%)	7 (14%)	10 (20%)	6 (12%)
Necrosis		1 (2%)		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	6 (12%)	7 (14%)	3 (6%)	1 (2%)
Foreign Body				1 (2%)
Inflammation, Chronic Active	5 (10%)	4 (8%)	1 (2%)	2 (4%)
Perforation	4 (8%)			3 (6%)
Ulcer	9 (18%)	9 (18%)	10 (20%)	5 (10%)
Epithelium, Hyperplasia	15 (30%)	12 (24%)	10 (20%)	14 (28%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema	3 (6%)		3 (6%)	

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FISCHER 344 RATS MALE	0 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG
Erosion	9 (18%)	9 (18%)	5 (10%)	7 (14%)
Ulcer	4 (8%)		3 (6%)	2 (4%)
Glands, Hyperplasia	2 (4%)	4 (8%)	1 (2%)	3 (6%)
Tongue	(1)	(1)	(0)	(0)
Epithelium, Hyperplasia		1 (100%)		
Tooth	(0)	(1)	(0)	(0)
Malformation		1 (100%)		
CARDIOVASCULAR SYSTEM				
Blood Vessel	(1)	(2)	(1)	(0)
Hypertrophy		2 (100%)		
Inflammation, Chronic		1 (50%)		
Thrombosis		1 (50%)		
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	46 (92%)	43 (86%)	44 (88%)	43 (86%)
Inflammation, Suppurative	1 (2%)	1 (2%)		
Inflammation, Chronic		1 (2%)		1 (2%)
Mineralization				1 (2%)
Thrombosis	10 (20%)	8 (16%)		2 (4%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	17 (34%)	14 (28%)	18 (36%)	23 (46%)
Atrophy	1 (2%)		1 (2%)	1 (2%)
Degeneration, Fatty	25 (50%)	22 (44%)	27 (54%)	22 (44%)
Hematopoietic Cell Proliferation				1 (2%)
Hemorrhage		1 (2%)		
Hyperplasia, Focal	4 (8%)	2 (4%)	4 (8%)	3 (6%)
Hyperplasia, Diffuse		1 (2%)		2 (4%)
Hypertrophy, Focal	11 (22%)	7 (14%)	10 (20%)	7 (14%)
Adrenal Medulla	(49)	(50)	(50)	(50)
Hyperplasia	22 (45%)	19 (38%)	20 (40%)	19 (38%)
Islets, Pancreatic	(50)	(50)	(50)	(50)

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FISCHER 344 RATS MALE	0 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG
Hyperplasia	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Parathyroid Gland	(45)	(46)	(45)	(47)
Hyperplasia		2 (4%)		
Pituitary Gland	(49)	(50)	(49)	(50)
Hyperplasia	1 (2%)			
Pigmentation	3 (6%)			
Pars Distalis, Angiectasis	3 (6%)	2 (4%)	8 (16%)	6 (12%)
Pars Distalis, Atrophy	3 (6%)			
Pars Distalis, Cyst	2 (4%)	3 (6%)	5 (10%)	4 (8%)
Pars Distalis, Hyperplasia	10 (20%)	5 (10%)	7 (14%)	12 (24%)
Pars Distalis, Hypertrophy, Focal		2 (4%)		8 (16%)
Pars Intermedia, Angiectasis		1 (2%)	1 (2%)	2 (4%)
Pars Intermedia, Cyst	1 (2%)	2 (4%)		1 (2%)
Thyroid Gland	(50)	(50)	(49)	(50)
Ultimobranchial Cyst	2 (4%)	2 (4%)		
C-cell, Hyperplasia	6 (12%)	5 (10%)	5 (10%)	6 (12%)
Follicle, Cyst	2 (4%)	1 (2%)	2 (4%)	2 (4%)
Follicular Cell, Hyperplasia			1 (2%)	
GENERAL BODY SYSTEM				
Tissue NOS	(1)	(0)	(2)	(0)
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Fibrosis			1 (2%)	1 (2%)
Granuloma Sperm				1 (2%)
Inflammation, Chronic	3 (6%)	3 (6%)	2 (4%)	7 (14%)
Preputial Gland	(50)	(50)	(50)	(50)
Cyst			1 (2%)	
Hyperplasia			1 (2%)	3 (6%)
Inflammation, Chronic	20 (40%)	15 (30%)	16 (32%)	18 (36%)
Prostate	(50)	(50)	(50)	(50)
Fibrosis			1 (2%)	

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FISCHER 344 RATS MALE	0 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG
Inflammation, Chronic Epithelium, Hyperplasia	42 (84%)	36 (72%)	35 (70%)	41 (82%)
Seminal Vesicle	4 (8%)	2 (4%)	4 (8%)	6 (12%)
Inflammation, Chronic	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic	1 (2%)	3 (6%)		1 (2%)
Germinal Epithelium, Atrophy	23 (46%)	21 (42%)	25 (50%)	23 (46%)
Interstitial Cell, Hyperplasia	6 (12%)	5 (10%)	2 (4%)	6 (12%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(50)	(49)	(50)
Angiectasis			1 (2%)	
Depletion Cellular			1 (2%)	
Hyperplasia	3 (6%)	8 (16%)	6 (12%)	6 (12%)
Infiltration Cellular, Histiocyte		1 (2%)		
Myelofibrosis	1 (2%)			
Necrosis		1 (2%)	1 (2%)	
Lymph Node	(20)	(20)	(17)	(18)
Ectasia				1 (6%)
Deep Cervical, Ectasia	1 (5%)			
Deep Cervical, Hemorrhage			1 (6%)	
Deep Cervical, Hyperplasia, Lymphoid	1 (5%)		1 (6%)	1 (6%)
Mediastinal, Ectasia	5 (25%)	5 (25%)	4 (24%)	5 (28%)
Mediastinal, Hemorrhage	1 (5%)	4 (20%)	3 (18%)	2 (11%)
Mediastinal, Hyperplasia, Lymphoid	3 (15%)	4 (20%)	4 (24%)	5 (28%)
Mediastinal, Hyperplasia, Plasma Cell		2 (10%)		
Mediastinal, Pigmentation	2 (10%)	1 (5%)		
Pancreatic, Ectasia	3 (15%)	4 (20%)	3 (18%)	2 (11%)
Pancreatic, Hemorrhage	1 (5%)		2 (12%)	
Pancreatic, Hyperplasia, Lymphoid	1 (5%)		3 (18%)	
Lymph Node, Mandibular	(4)	(0)	(0)	(1)
Ectasia	1 (25%)			
Lymph Node, Mesenteric	(50)	(50)	(50)	(49)
Angiectasis				1 (2%)

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Ectasia	8 (16%)	2 (4%)	5 (10%)	6 (12%)
Hemorrhage	1 (2%)	5 (10%)	5 (10%)	3 (6%)
Hyperplasia, Atypical	1 (2%)			
Hyperplasia, Lymphoid	18 (36%)	20 (40%)	18 (36%)	19 (39%)
Necrosis	1 (2%)			
Pigmentation	1 (2%)	1 (2%)		
Spleen	(50)	(50)	(49)	(49)
Accessory Spleen	1 (2%)			1 (2%)
Fibrosis	3 (6%)		2 (4%)	1 (2%)
Hematopoietic Cell Proliferation	10 (20%)	9 (18%)	9 (18%)	9 (18%)
Hemorrhage	1 (2%)			
Infiltration Cellular, Mixed Cell		1 (2%)		
Necrosis	2 (4%)	1 (2%)	4 (8%)	1 (2%)
Pigmentation	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Lymphoid Follicle, Atrophy	2 (4%)	1 (2%)	2 (4%)	2 (4%)
Lymphoid Follicle, Hyperplasia		1 (2%)		
Thymus	(45)	(44)	(49)	(46)
Atrophy		1 (2%)		

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(49)	(49)	(48)
Hyperplasia	37 (74%)	27 (55%)	35 (71%)	28 (58%)
Inflammation, Chronic Active			2 (4%)	
Skin	(50)	(49)	(50)	(50)
Cyst Epithelial Inclusion			3 (6%)	
Edema		1 (2%)		
Hemorrhage		1 (2%)		
Hyperkeratosis		1 (2%)		1 (2%)
Inflammation, Chronic		1 (2%)		1 (2%)
Ulcer	6 (12%)	4 (8%)	10 (20%)	7 (14%)
Control, Cyst Epithelial Inclusion			1 (2%)	
Control, Edema		1 (2%)		
Epidermis, Hyperplasia	4 (8%)	4 (8%)	5 (10%)	5 (10%)
Epidermis, Site Of Application, Hyperplasia	1 (2%)		12 (24%)	28 (56%)

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FISCHER 344 RATS MALE	0 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG
Site Of Application, Hyperkeratosis	2 (4%)	4 (8%)	33 (66%)	49 (98%)
Site Of Application, Inflammation, Chronic			1 (2%)	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Fibrous Osteodystrophy	1 (2%)	1 (2%)		2 (4%)
Fracture				1 (2%)
Femur, Osteopetrosis			1 (2%)	
Skeletal Muscle	(2)	(0)	(3)	(1)
Hemorrhage	1 (50%)			

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	25 (50%)	26 (52%)	26 (52%)	16 (32%)
Hemorrhage	4 (8%)	1 (2%)	1 (2%)	2 (4%)
Necrosis	2 (4%)	1 (2%)	2 (4%)	4 (8%)
Meninges, Fibrosis		1 (2%)		
Spinal Cord	(2)	(3)	(5)	(3)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Edema	1 (2%)	1 (2%)	1 (2%)	
Foreign Body			1 (2%)	
Hemorrhage	3 (6%)	4 (8%)	1 (2%)	4 (8%)
Infiltration Cellular, Histiocyte	20 (40%)	18 (36%)	14 (28%)	18 (36%)
Inflammation, Suppurative	1 (2%)	1 (2%)		
Inflammation, Chronic	14 (28%)	12 (24%)	15 (30%)	10 (20%)
Metaplasia, Osseous		2 (4%)	1 (2%)	1 (2%)
Pigmentation, Hemosiderin	2 (4%)	2 (4%)		1 (2%)
Thrombosis	1 (2%)	1 (2%)	1 (2%)	
Alveolar Epithelium, Hyperplasia	10 (20%)	9 (18%)	8 (16%)	8 (16%)

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Alveolar Epithelium, Metaplasia, Squamous Bronchiole, Hyperplasia Pleura, Fibrosis	1 (2%)		1 (2%) 1 (2%)	
Nose	(50)	(50)	(50)	(50)
Foreign Body	23 (46%)	27 (54%)	26 (52%)	27 (54%)
Fungus	2 (4%)	4 (8%)	6 (12%)	3 (6%)
Hemorrhage		2 (4%)		
Inflammation, Chronic	20 (40%)	19 (38%)	23 (46%)	21 (42%)
Respiratory Epithelium, Hyperplasia	11 (22%)	11 (22%)	14 (28%)	17 (34%)
Respiratory Epithelium, Metaplasia, Squamous	2 (4%)	5 (10%)	6 (12%)	4 (8%)
Trachea	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)			

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Cataract	3 (6%)	2 (4%)	2 (4%)	3 (6%)
Inflammation, Suppurative			1 (2%)	
Inflammation, Acute		1 (2%)	3 (6%)	
Inflammation, Chronic	1 (2%)	1 (2%)		
Cornea, Hyperplasia	1 (2%)			
Retina, Degeneration	9 (18%)	2 (4%)	3 (6%)	3 (6%)
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia, Focal		2 (4%)	1 (2%)	
Inflammation, Chronic	1 (2%)	1 (2%)		
Zymbal's Gland	(1)	(2)	(1)	(3)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Hydronephrosis				1 (2%)
Infarct	1 (2%)			
Inflammation, Chronic			1 (2%)	
Nephropathy	48 (96%)	44 (88%)	47 (94%)	44 (88%)
Papilla, Necrosis				2 (4%)

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FISCHER 344 RATS MALE	0 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)	1 (2%)	2 (4%)	
Renal Tubule, Dilatation	1 (2%)	2 (4%)	2 (4%)	
Renal Tubule, Necrosis	5 (10%)	3 (6%)	2 (4%)	1 (2%)
Renal Tubule, Pigmentation	6 (12%)	3 (6%)	1 (2%)	1 (2%)
Transitional Epithelium, Hyperplasia	1 (2%)		1 (2%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Calculus Gross Observation	1 (2%)			
Inflammation, Chronic	1 (2%)			1 (2%)
Necrosis				1 (2%)

*** END OF MALE ***

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Disposition Summary

Animals Initially In Study	65	65	65	65
Scheduled Sacrifice	15	15	15	15
Early Deaths				
Moribund Sacrifice	10	12	17	10
Natural Death	13	7	9	8
Survivors				
Natural Death			1	
Terminal Sacrifice	27	31	23	32
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Intestine Large, Cecum	(49)	(49)	(49)	(50)
Edema	1 (2%)		3 (6%)	
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Epithelium, Hyperplasia		1 (2%)	4 (8%)	
Intestine Small, Ileum	(45)	(49)	(48)	(49)
Intestine Small, Jejunum	(44)	(47)	(44)	(49)
Liver	(50)	(50)	(50)	(50)
Angiectasis	4 (8%)	2 (4%)		3 (6%)
Basophilic Focus	43 (86%)	45 (90%)	38 (76%)	45 (90%)
Clear Cell Focus	9 (18%)	5 (10%)	2 (4%)	7 (14%)
Cyst	1 (2%)			
Eosinophilic Focus	8 (16%)	9 (18%)	7 (14%)	4 (8%)
Fatty Change	4 (8%)	7 (14%)	6 (12%)	5 (10%)
Hematopoietic Cell Proliferation	2 (4%)	2 (4%)	1 (2%)	
Hepatodiaphragmatic Nodule	11 (22%)	9 (18%)	2 (4%)	9 (18%)
Infiltration Cellular, Mixed Cell	7 (14%)	7 (14%)	9 (18%)	12 (24%)
Inflammation, Chronic				1 (2%)
Mixed Cell Focus	9 (18%)	9 (18%)	4 (8%)	8 (16%)
Necrosis, Focal	2 (4%)	5 (10%)	4 (8%)	
Thrombosis			1 (2%)	
Bile Duct, Hyperplasia		2 (4%)	4 (8%)	2 (4%)
Centrilobular, Necrosis	2 (4%)	3 (6%)	3 (6%)	

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Date Report Requested: 03/31/2010

Time Report Requested: 13:41:41

First Dose M/F: 01/18/05 / 01/18/05

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	0.3 MG.KG	1.0 MG/KG	3.0 MG/KG
Hepatocyte, Eosinophilic Focus				1 (2%)
Hepatocyte, Mitotic Alteration				2 (4%)
Hepatocyte, Vacuolization Cytoplasmic	3 (6%)	7 (14%)	12 (24%)	6 (12%)
Kupffer Cell, Pigmentation		1 (2%)		
Mesentery	(26)	(15)	(19)	(18)
Accessory Spleen	4 (15%)		2 (11%)	1 (6%)
Fibrosis	1 (4%)		1 (5%)	
Hemorrhage		1 (7%)		
Thrombosis			1 (5%)	
Fat, Necrosis	22 (85%)	13 (87%)	16 (84%)	15 (83%)
Pancreas	(50)	(50)	(49)	(50)
Atrophy	10 (20%)	13 (26%)	16 (33%)	8 (16%)
Cyst	3 (6%)	4 (8%)	3 (6%)	6 (12%)
Metaplasia, Hepatocyte		1 (2%)		
Acinus, Cytoplasmic Alteration	4 (8%)	2 (4%)	3 (6%)	
Acinus, Hyperplasia, Focal	1 (2%)	2 (4%)	3 (6%)	2 (4%)
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	5 (10%)	5 (10%)	3 (6%)	2 (4%)
Necrosis	1 (2%)			
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	3 (6%)	2 (4%)	7 (14%)	2 (4%)
Erosion		1 (2%)		
Inflammation, Chronic Active	4 (8%)	2 (4%)	5 (10%)	4 (8%)
Perforation			2 (4%)	
Ulcer	5 (10%)	1 (2%)	9 (18%)	2 (4%)
Epithelium, Hyperplasia	6 (12%)	3 (6%)	12 (24%)	7 (14%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Erosion	1 (2%)	5 (10%)	5 (10%)	3 (6%)
Ulcer	1 (2%)		3 (6%)	1 (2%)
Glands, Hyperplasia		2 (4%)	2 (4%)	1 (2%)
Tongue	(1)	(1)	(0)	(0)
Epithelium, Hyperplasia	1 (100%)			

CARDIOVASCULAR SYSTEM

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

TDMS No. 88133 - 07
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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FISCHER 344 RATS FEMALE	0 MG/KG	0.3 MG.KG	1.0 MG/KG	3.0 MG/KG
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	38 (76%)	44 (88%)	34 (68%)	30 (60%)
Thrombosis		3 (6%)	2 (4%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	7 (14%)	6 (12%)	4 (8%)	8 (16%)
Atrophy	1 (2%)	1 (2%)		
Degeneration, Fatty	18 (36%)	23 (46%)	23 (46%)	22 (44%)
Hemorrhage		1 (2%)		
Hyperplasia	1 (2%)			
Hyperplasia, Focal	8 (16%)	6 (12%)	3 (6%)	9 (18%)
Hyperplasia, Diffuse			1 (2%)	
Hypertrophy, Focal	7 (14%)	11 (22%)	12 (24%)	7 (14%)
Necrosis	2 (4%)	1 (2%)		
Adrenal Medulla	(48)	(50)	(49)	(50)
Hyperplasia	5 (10%)	3 (6%)	4 (8%)	1 (2%)
Necrosis	1 (2%)			
Islets, Pancreatic	(50)	(50)	(49)	(50)
Hyperplasia	2 (4%)	1 (2%)		
Parathyroid Gland	(45)	(49)	(46)	(46)
Hyperplasia	1 (2%)			
Pituitary Gland	(50)	(50)	(50)	(50)
Pigmentation			1 (2%)	
Pars Distalis, Angiectasis	9 (18%)	10 (20%)	14 (28%)	10 (20%)
Pars Distalis, Cyst	14 (28%)	18 (36%)	19 (38%)	24 (48%)
Pars Distalis, Hyperplasia	9 (18%)	11 (22%)	17 (34%)	9 (18%)
Pars Distalis, Hypertrophy, Focal			1 (2%)	1 (2%)
Pars Intermedia, Angiectasis	3 (6%)	5 (10%)	2 (4%)	4 (8%)
Pars Intermedia, Cyst	3 (6%)	1 (2%)	3 (6%)	7 (14%)
Pars Intermedia, Hyperplasia	1 (2%)			
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst		1 (2%)	2 (4%)	
C-cell, Hyperplasia	5 (10%)	8 (16%)	8 (16%)	4 (8%)

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FISCHER 344 RATS FEMALE	0 MG/KG	0.3 MG.KG	1.0 MG/KG	3.0 MG/KG
Follicle, Cyst Follicular Cell, Hyperplasia	1 (2%)	1 (2%)	2 (4%)	1 (2%)
GENERAL BODY SYSTEM				
Tissue NOS	(0)	(1)	(1)	(0)
GENITAL SYSTEM				
Clitoral Gland	(50)	(50)	(50)	(49)
Cyst	3 (6%)	2 (4%)	2 (4%)	
Hyperplasia	10 (20%)	6 (12%)	3 (6%)	2 (4%)
Inflammation, Chronic	5 (10%)	7 (14%)	2 (4%)	4 (8%)
Ovary	(50)	(50)	(50)	(50)
Cyst	6 (12%)	5 (10%)	8 (16%)	7 (14%)
Uterus	(50)	(50)	(50)	(50)
Hyperplasia, Cystic	10 (20%)	7 (14%)	12 (24%)	3 (6%)
Cervix, Myometrium, Hypertrophy		1 (2%)		
Vagina	(8)	(5)	(9)	(5)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	3 (6%)	5 (10%)	2 (4%)	1 (2%)
Infiltration Cellular, Histiocyte				2 (4%)
Myelofibrosis	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Lymph Node	(12)	(11)	(8)	(4)
Bronchial, Hyperplasia	1 (8%)			
Bronchial, Pigmentation	1 (8%)			
Mediastinal, Ectasia	3 (25%)	2 (18%)	1 (13%)	
Mediastinal, Hemorrhage	4 (33%)	4 (36%)	2 (25%)	2 (50%)
Mediastinal, Hyperplasia, Lymphoid	3 (25%)	7 (64%)	1 (13%)	1 (25%)
Mediastinal, Pigmentation	5 (42%)	6 (55%)	2 (25%)	2 (50%)
Pancreatic, Hemorrhage	1 (8%)			

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FISCHER 344 RATS FEMALE	0 MG/KG	0.3 MG.KG	1.0 MG/KG	3.0 MG/KG
Pancreatic, Pigmentation	1 (8%)			
Lymph Node, Mandibular Ectasia	(4)	(0)	(0)	(0)
Lymph Node, Mesenteric Ectasia	1 (25%) (50)	(50)	(50)	(50)
Hemorrhage	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Hyperplasia, Lymphoid Pigmentation	26 (52%) 1 (2%)	20 (40%) 1 (2%)	14 (28%) 1 (2%)	19 (38%) 3 (6%)
Spleen Fibrosis	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	1 (2%)		1 (2%)	
Infiltration Cellular, Mixed Cell Necrosis	10 (20%)	13 (26%)	17 (34%)	13 (26%)
Pigmentation			1 (2%)	1 (2%)
Lymphoid Follicle, Atrophy	8 (16%)	5 (10%)	6 (12%)	6 (12%)
Thymus Cyst	(47)	(47)	(46)	(50)
	1 (2%)			

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia	48 (96%)	48 (96%)	45 (90%)	44 (88%)
Inflammation, Chronic		1 (2%)		
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1 (2%)			
Edema		1 (2%)		1 (2%)
Ulcer	2 (4%)	3 (6%)		2 (4%)
Epidermis, Hyperplasia	1 (2%)	4 (8%)		2 (4%)
Epidermis, Site Of Application, Hyperplasia		4 (8%)	11 (22%)	25 (50%)
Site Of Application, Hyperkeratosis		11 (22%)	42 (84%)	50 (100%)
Site Of Application, Ulcer		2 (4%)		
Subcutaneous Tissue, Necrosis				1 (2%)

MUSCULOSKELETAL SYSTEM

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FISCHER 344 RATS FEMALE	0 MG/KG	0.3 MG.KG	1.0 MG/KG	3.0 MG/KG
Bone	(50)	(50)	(50)	(50)
Fibrous Osteodystrophy			1 (2%)	
Femur, Osteopetrosis		1 (2%)		
Skeletal Muscle	(0)	(1)	(1)	(0)
Cyst			1 (100%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	31 (62%)	24 (48%)	18 (36%)	21 (42%)
Hemorrhage	3 (6%)	4 (8%)	4 (8%)	1 (2%)
Necrosis	1 (2%)	4 (8%)	1 (2%)	
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Edema	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Foreign Body				2 (4%)
Hemorrhage	4 (8%)	5 (10%)	10 (20%)	4 (8%)
Infiltration Cellular, Histiocyte	23 (46%)	24 (48%)	28 (56%)	21 (42%)
Inflammation, Chronic	14 (28%)	22 (44%)	15 (30%)	13 (26%)
Inflammation, Chronic Active			1 (2%)	
Metaplasia, Osseous			1 (2%)	
Pigmentation, Hemosiderin	11 (22%)	16 (32%)	14 (28%)	12 (24%)
Alveolar Epithelium, Hyperplasia	3 (6%)	5 (10%)	3 (6%)	2 (4%)
Nose	(50)	(50)	(50)	(50)
Foreign Body	5 (10%)	5 (10%)	2 (4%)	2 (4%)
Inflammation, Chronic	8 (16%)	5 (10%)	4 (8%)	5 (10%)
Respiratory Epithelium, Hyperplasia	2 (4%)	3 (6%)		
Respiratory Epithelium, Metaplasia, Squamous	2 (4%)	1 (2%)		
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)

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FISCHER 344 RATS FEMALE	0 MG/KG	0.3 MG.KG	1.0 MG/KG	3.0 MG/KG
Cataract	2 (4%)	6 (12%)	5 (10%)	4 (8%)
Inflammation, Acute	2 (4%)	1 (2%)	1 (2%)	
Cornea, Hyperplasia	1 (2%)			
Retina, Degeneration	6 (12%)	10 (20%)	11 (22%)	5 (10%)
Harderian Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)	3 (6%)		
Zymbal's Gland	(0)	(1)	(0)	(0)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Cyst	1 (2%)		2 (4%)	
Infarct	1 (2%)	1 (2%)	2 (4%)	
Inflammation, Suppurative			1 (2%)	
Inflammation, Chronic			1 (2%)	
Nephropathy	38 (76%)	39 (78%)	36 (72%)	35 (70%)
Renal Tubule, Accumulation, Hyaline Droplet	2 (4%)	2 (4%)	1 (2%)	
Renal Tubule, Dilatation	2 (4%)			
Renal Tubule, Necrosis		1 (2%)	1 (2%)	
Renal Tubule, Pigmentation	2 (4%)	1 (2%)	3 (6%)	1 (2%)
Transitional Epithelium, Hyperplasia		2 (4%)	3 (6%)	1 (2%)
Urinary Bladder	(50)	(50)	(49)	(50)
Edema	1 (2%)			
Transitional Epithelium, Hyperplasia			1 (2%)	

*** END OF REPORT ***

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