

TDMS No. 20313 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

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

Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

C Number: C20313
Lock Date: 01/14/2010
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-NCTR RATS MALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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Disposition Summary

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	27	23	20	20	18
Natural Death	4		2	4	6
Survivors					
Moribund Sacrifice	7	7	7	9	5
Natural Death	1	2		1	2
Terminal Sacrifice	9	16	19	14	17
Animals Examined Microscopically	48	48	48	48	48

ALIMENTARY SYSTEM

Intestine Large, Cecum	(47)	(48)	(47)	(48)	(45)
Dilatation		1 (2%)			
Inflammation	1 (2%)				
Ulcer	1 (2%)				
Lymphoid Tissue, Hyperplasia		3 (6%)			
Intestine Large, Colon	(48)	(48)	(47)	(47)	(45)
Lymphoid Tissue, Hyperplasia		1 (2%)	2 (4%)		
Intestine Small, Duodenum	(48)	(48)	(47)	(48)	(45)
Mucosa, Hyperplasia		1 (2%)			
Intestine Small, Ileum	(47)	(48)	(47)	(47)	(44)
Lymphoid Tissue, Hyperplasia		3 (6%)	2 (4%)	1 (2%)	2 (5%)
Intestine Small, Jejunum	(45)	(48)	(46)	(46)	(43)
Inflammation	1 (2%)		1 (2%)		
Ulcer	1 (2%)				
Lymphoid Tissue, Hyperplasia		2 (4%)	1 (2%)		
Liver	(48)	(48)	(48)	(48)	(48)
Angiectasis		1 (2%)	1 (2%)		3 (6%)
Basophilic Focus					1 (2%)
Basophilic Focus, Multiple	1 (2%)	1 (2%)			2 (4%)
Cyst	1 (2%)		1 (2%)		
Degeneration, Cystic	11 (23%)	6 (13%)	7 (15%)	4 (8%)	5 (10%)
Eosinophilic Focus	3 (6%)	5 (10%)	1 (2%)	1 (2%)	2 (4%)

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Eosinophilic Focus, Multiple	1 (2%)	1 (2%)		1 (2%)	
Granuloma	4 (8%)	4 (8%)	6 (13%)	5 (10%)	7 (15%)
Hematopoietic Cell Proliferation	1 (2%)	1 (2%)	2 (4%)	3 (6%)	1 (2%)
Hepatodiaphragmatic Nodule	2 (4%)	1 (2%)	1 (2%)	1 (2%)	
Infiltration Cellular, Lymphocyte	1 (2%)			1 (2%)	
Necrosis, Coagulative	2 (4%)		1 (2%)		
Pigmentation		1 (2%)			
Regeneration		1 (2%)			
Thrombosis		1 (2%)			
Vacuolization Cytoplasmic	2 (4%)	10 (21%)	10 (21%)	6 (13%)	11 (23%)
Bile Duct, Hyperplasia	21 (44%)	17 (35%)	21 (44%)	19 (40%)	16 (33%)
Caudate Lobe, Developmental Malformation			1 (2%)		1 (2%)
Centrilobular, Degeneration			1 (2%)		
Centrilobular, Necrosis	1 (2%)	2 (4%)		1 (2%)	3 (6%)
Hepatocyte, Hyperplasia	1 (2%)			2 (4%)	1 (2%)
Left Lateral Lobe, Developmental Malformation	1 (2%)	2 (4%)	2 (4%)		3 (6%)
Median Lobe, Developmental Malformation		1 (2%)			
Oval Cell, Hyperplasia		1 (2%)		1 (2%)	
Right Lateral Lobe, Developmental Malformation	1 (2%)	2 (4%)			2 (4%)
Mesentery	(4)	(7)	(7)	(4)	(2)
Accessory Spleen		1 (14%)			1 (50%)
Polyarteritis			1 (14%)		
Fat, Necrosis	3 (75%)	5 (71%)	7 (100%)	3 (75%)	
Oral Mucosa	(3)	(6)	(2)	(0)	(0)
Hyperplasia	2 (67%)	2 (33%)			
Pancreas	(48)	(48)	(48)	(48)	(46)
Accessory Spleen			1 (2%)		
Infiltration Cellular, Lymphocyte				1 (2%)	
Inflammation	1 (2%)				
Polyarteritis	1 (2%)	1 (2%)	1 (2%)	3 (6%)	2 (4%)
Acinar Cell, Atrophy	9 (19%)	14 (29%)	15 (31%)	15 (31%)	17 (37%)
Acinar Cell, Hyperplasia			1 (2%)		
Mesothelium, Hyperplasia	1 (2%)				
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Infiltration Cellular, Plasma Cell					1 (2%)

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Stomach, Forestomach	(48)	(48)	(47)	(48)	(47)
Edema	2 (4%)	1 (2%)	3 (6%)	3 (6%)	3 (6%)
Hyperplasia	4 (8%)	2 (4%)	4 (9%)	6 (13%)	2 (4%)
Inflammation	1 (2%)	4 (8%)	2 (4%)	3 (6%)	
Ulcer		4 (8%)	4 (9%)	3 (6%)	
Stomach, Glandular	(48)	(48)	(47)	(48)	(47)
Amyloid Deposition		1 (2%)			
Edema				2 (4%)	1 (2%)
Erosion				1 (2%)	
Hemorrhage		1 (2%)			
Inflammation		1 (2%)	2 (4%)	2 (4%)	
Ulcer				1 (2%)	
Tongue	(1)	(2)	(0)	(1)	(3)
Hyperplasia					1 (33%)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(48)	(48)	(48)	(48)	(48)
Heart	(48)	(48)	(48)	(48)	(48)
Cardiomyopathy	38 (79%)	38 (79%)	36 (75%)	37 (77%)	37 (77%)
Dilatation		1 (2%)	1 (2%)		
Infarct					1 (2%)
Inflammation	1 (2%)				
Atrium, Thrombosis	10 (21%)	11 (23%)	8 (17%)	13 (27%)	13 (27%)
Myocardium, Hypertrophy		1 (2%)			
ENDOCRINE SYSTEM					
Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Accessory Adrenal Cortical Nodule	1 (2%)				
Angiectasis	3 (6%)	1 (2%)	5 (10%)	3 (6%)	5 (10%)
Atrophy	2 (4%)				1 (2%)
Hyperplasia, Focal		2 (4%)		2 (4%)	5 (10%)
Hypertrophy, Focal	8 (17%)	6 (13%)	8 (17%)	3 (6%)	4 (8%)
Necrosis, Coagulative				1 (2%)	

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Thrombosis		1 (2%)			
Vacuolization Cytoplasmic	13 (27%)	11 (23%)	12 (25%)	16 (33%)	12 (25%)
Adrenal Medulla	(47)	(48)	(47)	(48)	(48)
Angiectasis	2 (4%)	2 (4%)	4 (9%)	3 (6%)	1 (2%)
Hyperplasia, Focal	5 (11%)	2 (4%)	4 (9%)	7 (15%)	6 (13%)
Islets, Pancreatic	(48)	(48)	(48)	(48)	(46)
Hyperplasia		1 (2%)			
Parathyroid Gland	(44)	(47)	(47)	(48)	(46)
Atrophy	1 (2%)				
Cyst				1 (2%)	
Hyperplasia, Focal					1 (2%)
Pituitary Gland	(47)	(48)	(47)	(48)	(48)
Angiectasis	2 (4%)	1 (2%)	1 (2%)		2 (4%)
Pigmentation		1 (2%)			
Thrombosis			1 (2%)		
Pars Distalis, Cyst	2 (4%)		3 (6%)		6 (13%)
Pars Distalis, Hyperplasia	3 (6%)	2 (4%)	2 (4%)	1 (2%)	5 (10%)
Pars Intermedia, Cyst		2 (4%)		1 (2%)	
Thyroid Gland	(48)	(48)	(47)	(48)	(47)
C-cell, Hyperplasia	5 (10%)	4 (8%)	2 (4%)	4 (8%)	3 (6%)
Follicle, Cyst	2 (4%)	2 (4%)	3 (6%)	2 (4%)	1 (2%)
Follicular Cell, Hyperplasia	3 (6%)			2 (4%)	
GENERAL BODY SYSTEM					
Peritoneum	(2)	(0)	(0)	(0)	(0)
Tissue NOS	(1)	(1)	(1)	(1)	(0)
Fat, Necrosis		1 (100%)			
Fat, Scrotal, Necrosis	1 (100%)				
GENITAL SYSTEM					
Epididymis	(48)	(48)	(48)	(48)	(48)
Atrophy		1 (2%)	2 (4%)	1 (2%)	
Exfoliated Germ Cell	24 (50%)	26 (54%)	23 (48%)	19 (40%)	24 (50%)

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Granuloma Sperm					1 (2%)
Hypospermia	24 (50%)	29 (60%)	30 (63%)	32 (67%)	31 (65%)
Fat, Necrosis				1 (2%)	
Mesothelium, Hyperplasia					2 (4%)
Serosa, Cyst			1 (2%)		
Penis	(1)	(1)	(0)	(0)	(1)
Inflammation					1 (100%)
Preputial Gland	(48)	(48)	(48)	(47)	(48)
Atrophy			1 (2%)	1 (2%)	
Inflammation	35 (73%)	34 (71%)	32 (67%)	38 (81%)	35 (73%)
Duct, Ectasia	10 (21%)	14 (29%)	11 (23%)	6 (13%)	4 (8%)
Glandular, Hyperplasia		1 (2%)	1 (2%)		1 (2%)
Prostate	(48)	(48)	(48)	(48)	(47)
Atrophy				1 (2%)	
Inflammation	25 (52%)	32 (67%)	28 (58%)	29 (60%)	25 (53%)
Seminal Vesicle	(48)	(48)	(47)	(48)	(48)
Atrophy	9 (19%)	9 (19%)	9 (19%)	12 (25%)	6 (13%)
Decreased Secretory Fluid	1 (2%)	1 (2%)	5 (11%)	6 (13%)	3 (6%)
Lumen, Distended			1 (2%)		
Testes	(48)	(48)	(48)	(48)	(48)
Granuloma Sperm				1 (2%)	
Mineralization				1 (2%)	1 (2%)
Polyarteritis	1 (2%)		1 (2%)		1 (2%)
Interstitial Cell, Hyperplasia	3 (6%)	3 (6%)	2 (4%)	6 (13%)	6 (13%)
Seminiferous Tubule, Atrophy	16 (33%)	13 (27%)	15 (31%)	21 (44%)	13 (27%)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(48)	(48)	(48)	(48)	(47)
Atrophy	4 (8%)	2 (4%)	5 (10%)	4 (8%)	2 (4%)
Hyperplasia	3 (6%)	1 (2%)	2 (4%)	3 (6%)	3 (6%)
Myeloid Cell, Hyperplasia	1 (2%)				
Lymph Node	(24)	(21)	(22)	(17)	(19)
Degeneration, Cystic	1 (4%)				
Hyperplasia, Lymphoid				1 (6%)	

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Inflammation	1 (4%)				
Axillary, Hemorrhage				1 (6%)	
Axillary, Hyperplasia, Lymphoid					2 (11%)
Deep Cervical, Degeneration, Cystic			1 (5%)		
Inguinal, Degeneration, Cystic					2 (11%)
Inguinal, Hyperplasia, Lymphoid					1 (5%)
Inguinal, Infiltration Cellular, Plasma Cell					1 (5%)
Lumbar, Degeneration, Cystic			2 (9%)	2 (12%)	3 (16%)
Lumbar, Hyperplasia, Lymphoid	1 (4%)				1 (5%)
Lumbar, Infiltration Cellular, Plasma Cell					2 (11%)
Lumbar, Medulla, Sinus, Dilatation		1 (5%)			
Mediastinal, Degeneration, Cystic		3 (14%)	1 (5%)	1 (6%)	
Mediastinal, Hemorrhage		1 (5%)	1 (5%)	1 (6%)	1 (5%)
Mediastinal, Hyperplasia, Lymphoid	1 (4%)				1 (5%)
Mediastinal, Infiltration Cellular, Mast Cell	1 (4%)				
Mediastinal, Medulla, Sinus, Dilatation	1 (4%)	1 (5%)			
Medulla, Pancreatic, Sinus, Dilatation		2 (10%)		1 (6%)	
Medulla, Renal, Sinus, Dilatation	1 (4%)		1 (5%)		
Pancreatic, Degeneration, Cystic			1 (5%)		
Pancreatic, Hemorrhage					1 (5%)
Pancreatic, Hyperplasia, Lymphoid	1 (4%)		1 (5%)	1 (6%)	1 (5%)
Renal, Degeneration, Cystic	3 (13%)	4 (19%)	5 (23%)	1 (6%)	3 (16%)
Renal, Hemorrhage		1 (5%)			
Renal, Hyperplasia, Lymphoid			2 (9%)	1 (6%)	
Lymph Node, Mandibular	(48)	(48)	(48)	(46)	(48)
Degeneration, Cystic	12 (25%)	12 (25%)	11 (23%)	7 (15%)	7 (15%)
Hemorrhage		1 (2%)	1 (2%)	1 (2%)	1 (2%)
Hyperplasia, Lymphoid	2 (4%)	6 (13%)	1 (2%)	1 (2%)	5 (10%)
Infiltration Cellular, Plasma Cell	18 (38%)	6 (13%)	12 (25%)	10 (22%)	9 (19%)
Inflammation		1 (2%)			
Lymph Node, Mesenteric	(48)	(48)	(48)	(47)	(47)
Degeneration, Cystic	5 (10%)	4 (8%)	2 (4%)	2 (4%)	3 (6%)
Hemorrhage	3 (6%)	3 (6%)		1 (2%)	1 (2%)
Hyperplasia, Lymphoid	4 (8%)		1 (2%)	2 (4%)	2 (4%)
Infiltration Cellular, Plasma Cell		1 (2%)			
Medulla, Sinus, Dilatation		1 (2%)		1 (2%)	1 (2%)

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Spleen	(48)	(48)	(47)	(48)	(48)
Accessory Spleen	2 (4%)	4 (8%)		2 (4%)	
Congestion			1 (2%)		
Developmental Malformation			1 (2%)		
Hematopoietic Cell Proliferation		1 (2%)	4 (9%)	3 (6%)	3 (6%)
Hyperplasia, Lymphoid			1 (2%)	1 (2%)	
Infarct	9 (19%)	10 (21%)	11 (23%)	10 (21%)	4 (8%)
Pigmentation	1 (2%)	3 (6%)	4 (9%)	3 (6%)	3 (6%)
Capsule, Hematocyst		1 (2%)			
Red Pulp, Atrophy	4 (8%)	3 (6%)	2 (4%)	1 (2%)	1 (2%)
Thymus	(47)	(48)	(46)	(47)	(45)
Atrophy	43 (91%)	35 (73%)	40 (87%)	41 (87%)	40 (89%)
Cyst	1 (2%)	1 (2%)			1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(44)	(43)	(43)	(44)	(44)
Galactocele	9 (20%)	11 (26%)	7 (16%)	10 (23%)	3 (7%)
Inflammation			1 (2%)		
Lactation	19 (43%)	23 (53%)	19 (44%)	19 (43%)	17 (39%)
Alveolus, Hyperplasia	10 (23%)	14 (33%)	12 (28%)	13 (30%)	11 (25%)
Skin	(48)	(48)	(48)	(48)	(48)
Abscess	1 (2%)				
Cyst Epithelial Inclusion	1 (2%)	2 (4%)		2 (4%)	
Inflammation			1 (2%)	1 (2%)	
Ulcer				2 (4%)	
Epidermis, Hyperplasia			1 (2%)		
Fat, Subcutaneous Tissue, Necrosis	1 (2%)				1 (2%)
Subcutaneous Tissue, Metaplasia, Osseous		1 (2%)			
Tail, Hyperkeratosis	1 (2%)				

MUSCULOSKELETAL SYSTEM

Bone	(1)	(1)	(0)	(1)	(1)
Cranium, Fracture	1 (100%)				

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Vertebra, Fracture		1 (100%)		1 (100%)	1 (100%)
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Fibrous Osteodystrophy				2 (4%)	1 (2%)
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)
NERVOUS SYSTEM					
Brain, Brain Stem	(48)	(48)	(48)	(48)	(48)
Gliosis, Focal					1 (2%)
Hemorrhage		1 (2%)	1 (2%)	1 (2%)	
Hypothalamus, Compression	9 (19%)	16 (33%)	13 (27%)	13 (27%)	6 (13%)
Ventricle, Dilatation			1 (2%)	1 (2%)	1 (2%)
Brain, Cerebellum	(48)	(48)	(48)	(48)	(48)
Hemorrhage	1 (2%)				
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Hemorrhage	1 (2%)				
Hydrocephalus	1 (2%)		1 (2%)	2 (4%)	
Mineralization					1 (2%)
Necrosis, Focal				1 (2%)	
Thrombosis				1 (2%)	
Perivascular, Infiltration Cellular, Mixed Cell, Focal			1 (2%)		
Ventricle, Dilatation	1 (2%)	5 (10%)	6 (13%)	5 (10%)	1 (2%)
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Axon, Degeneration	23 (48%)	11 (23%)	7 (15%)	7 (15%)	5 (10%)
Spinal Cord, Cervical	(48)	(48)	(47)	(48)	(47)
Degeneration, Focal	1 (2%)				
Hemorrhage			1 (2%)		
Axon, Degeneration	19 (40%)	22 (46%)	20 (43%)	22 (46%)	20 (43%)
Nerve, Degeneration			3 (6%)	1 (2%)	2 (4%)
Spinal Cord, Lumbar	(48)	(48)	(47)	(48)	(47)
Cyst					1 (2%)
Gliosis, Focal				1 (2%)	
Axon, Degeneration	1 (2%)	1 (2%)	5 (11%)	4 (8%)	6 (13%)
Nerve, Degeneration	16 (33%)	16 (33%)	20 (43%)	20 (42%)	16 (34%)

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Spinal Cord, Thoracic Hemorrhage, Focal Axon, Degeneration Nerve, Degeneration	(48) 21 (44%)	(48) 32 (67%) 2 (4%)	(47) 1 (2%) 25 (53%) 2 (4%)	(48) 18 (38%) 1 (2%)	(47) 22 (47%) 4 (9%)
RESPIRATORY SYSTEM					
Lung	(48)	(48)	(48)	(48)	(48)
Granuloma Hemorrhage Inflammation Alveolar Epithelium, Hyperplasia Alveolus, Infiltration Cellular, Histiocyte	1 (2%) 5 (10%) 4 (8%) 4 (8%)	1 (2%) 1 (2%) 6 (13%)	1 (2%) 2 (4%) 5 (10%) 6 (13%)	2 (4%) 2 (4%) 4 (8%)	1 (2%) 6 (13%)
Nose	(48)	(48)	(48)	(48)	(48)
Fungus Inflammation Keratin Cyst	1 (2%)	6 (13%)	8 (17%)	3 (6%)	1 (2%) 2 (4%) 1 (2%)
Trachea	(48)	(48)	(48)	(48)	(48)
Inflammation, Chronic Epithelium, Hyperplasia				1 (2%) 1 (2%)	
SPECIAL SENSES SYSTEM					
Eye	(45)	(46)	(47)	(47)	(44)
Cataract Phthisis Bulbi Cornea, Inflammation Retina, Degeneration Sclera, Metaplasia, Osseous Harderian Gland Infiltration Cellular, Lymphocyte Zymbal's Gland		1 (2%)		1 (2%) 1 (2%) 3 (6%) 3 (6%) 4 (8%)	1 (2%) 1 (2%) 2 (5%) 8 (18%) 4 (8%)
	10 (22%) 4 (9%) (48)	2 (4%) 1 (2%) (48)	3 (6%) 1 (2%) (48)	2 (4%) 3 (6%) (48)	2 (5%) 8 (18%) (48)
	9 (19%) (1)	2 (4%) (1)	7 (15%) (0)	8 (17%) (2)	7 (15%) (1)

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 Species/Strain: RATS/F 344/NCTR

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
URINARY SYSTEM					
Kidney	(48)	(48)	(48)	(48)	(47)
Accumulation, Hyaline Droplet		1 (2%)			
Cyst			1 (2%)	1 (2%)	1 (2%)
Hydronephrosis		2 (4%)		2 (4%)	1 (2%)
Infarct				1 (2%)	
Nephropathy	46 (96%)	48 (100%)	47 (98%)	45 (94%)	46 (98%)
Pigmentation		1 (2%)			
Cortex, Inflammation, Chronic		1 (2%)		1 (2%)	
Urethra	(1)	(0)	(1)	(0)	(0)
Bulbourethral Gland, Dilatation			1 (100%)		
Bulbourethral Gland, Inflammation	1 (100%)				
Urinary Bladder	(48)	(48)	(48)	(48)	(46)
Calculus Gross Observation				1 (2%)	
Dilatation	1 (2%)		2 (4%)	3 (6%)	3 (7%)
Hemorrhage	1 (2%)				

*** END OF MALE ***

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Acrylamide
 CAS Number: 79-06-1

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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Disposition Summary

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	23	14	17	13	8
Natural Death	2	5	2	2	3
Survivors					
Moribund Sacrifice	10	6	7	5	2
Natural Death			1		1
Terminal Sacrifice	13	23	21	28	34
Animals Examined Microscopically	48	48	48	48	48

ALIMENTARY SYSTEM

Esophagus	(48)	(48)	(48)	(48)	(48)
Inflammation	1 (2%)				
Intestine Large, Cecum	(47)	(46)	(48)	(48)	(47)
Lymphoid Tissue, Hyperplasia				1 (2%)	1 (2%)
Mucosa, Hyperplasia					1 (2%)
Intestine Large, Colon	(47)	(47)	(48)	(48)	(46)
Diverticulum				1 (2%)	
Intestine Small, Duodenum	(47)	(46)	(48)	(48)	(48)
Intestine Small, Ileum	(46)	(46)	(48)	(48)	(47)
Lymphoid Tissue, Hyperplasia	1 (2%)	1 (2%)	1 (2%)	2 (4%)	2 (4%)
Intestine Small, Jejunum	(46)	(45)	(48)	(48)	(46)
Keratin Cyst	1 (2%)				
Liver	(48)	(48)	(48)	(48)	(48)
Angiectasis		1 (2%)	3 (6%)	2 (4%)	1 (2%)
Apoptosis	1 (2%)				
Basophilic Focus		2 (4%)	1 (2%)		1 (2%)
Basophilic Focus, Multiple	19 (40%)	23 (48%)	25 (52%)	25 (52%)	29 (60%)
Degeneration, Cystic	2 (4%)	2 (4%)	1 (2%)		
Eosinophilic Focus	1 (2%)	7 (15%)	8 (17%)	3 (6%)	7 (15%)
Eosinophilic Focus, Multiple	3 (6%)	4 (8%)	1 (2%)	2 (4%)	1 (2%)
Granuloma	11 (23%)	18 (38%)	15 (31%)	15 (31%)	18 (38%)
Hematopoietic Cell Proliferation	5 (10%)	2 (4%)	4 (8%)		1 (2%)

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Hepatodiaphragmatic Nodule	3 (6%)	1 (2%)	2 (4%)	4 (8%)	3 (6%)
Infiltration Cellular, Lymphocyte	3 (6%)			1 (2%)	1 (2%)
Inflammation	1 (2%)			1 (2%)	
Necrosis, Coagulative			2 (4%)		
Regeneration	2 (4%)			2 (4%)	1 (2%)
Tension Lipidosis	1 (2%)				
Thrombosis			1 (2%)		
Vacuolization Cytoplasmic	4 (8%)	3 (6%)	7 (15%)	6 (13%)	7 (15%)
Bile Duct, Hyperplasia	5 (10%)	4 (8%)	4 (8%)	8 (17%)	7 (15%)
Biliary Tract, Cyst					1 (2%)
Capsule, Fibrosis			1 (2%)	1 (2%)	
Centrilobular, Cytoplasmic Alteration	1 (2%)	1 (2%)			
Centrilobular, Necrosis	3 (6%)	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Hepatocyte, Hyperplasia	3 (6%)		1 (2%)		
Left Lateral Lobe, Developmental Malformation	2 (4%)	6 (13%)	4 (8%)	10 (21%)	9 (19%)
Median Lobe, Developmental Malformation		1 (2%)		1 (2%)	1 (2%)
Oval Cell, Hyperplasia	1 (2%)				
Right Lateral Lobe, Developmental Malformation	1 (2%)			1 (2%)	1 (2%)
Mesentery	(5)	(4)	(10)	(9)	(7)
Accessory Spleen			1 (10%)		
Fat, Necrosis	4 (80%)	4 (100%)	6 (60%)	9 (100%)	5 (71%)
Oral Mucosa	(7)	(3)	(2)	(2)	(0)
Hyperplasia	2 (29%)	1 (33%)			
Pancreas	(48)	(47)	(48)	(48)	(48)
Accessory Spleen		1 (2%)			1 (2%)
Infiltration Cellular, Lymphocyte					1 (2%)
Inflammation	2 (4%)				
Polyarteritis				1 (2%)	
Acinar Cell, Atrophy	8 (17%)	6 (13%)	10 (21%)	16 (33%)	20 (42%)
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Stomach, Forestomach	(48)	(48)	(48)	(48)	(48)
Edema	1 (2%)	1 (2%)		2 (4%)	1 (2%)
Hyperplasia	2 (4%)	3 (6%)	1 (2%)	3 (6%)	1 (2%)
Inflammation	1 (2%)		2 (4%)		1 (2%)
Ulcer	2 (4%)	1 (2%)	1 (2%)	1 (2%)	

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Stomach, Glandular	(48)	(48)	(48)	(48)	(48)
Edema			1 (2%)		
Hemorrhage	1 (2%)				
Inflammation	1 (2%)		1 (2%)		
Tongue	(3)	(1)	(0)	(0)	(0)
Hyperplasia	1 (33%)				
CARDIOVASCULAR SYSTEM					
Heart	(48)	(48)	(48)	(48)	(48)
Cardiomyopathy	30 (63%)	37 (77%)	26 (54%)	42 (88%)	35 (73%)
Infiltration Cellular, Lymphocyte					1 (2%)
Inflammation	1 (2%)				
Mineralization					1 (2%)
Atrium, Thrombosis	3 (6%)	1 (2%)			3 (6%)
Myocardium, Hyperplasia	1 (2%)				
ENDOCRINE SYSTEM					
Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Accessory Adrenal Cortical Nodule	1 (2%)				1 (2%)
Angiectasis	20 (42%)	23 (48%)	29 (60%)	26 (54%)	37 (77%)
Atrophy				1 (2%)	1 (2%)
Hematopoietic Cell Proliferation					1 (2%)
Hyperplasia, Focal	2 (4%)	1 (2%)	2 (4%)	1 (2%)	
Hypertrophy, Focal	10 (21%)	4 (8%)	5 (10%)	5 (10%)	4 (8%)
Infarct				1 (2%)	
Thrombosis	1 (2%)				
Vacuolization Cytoplasmic	9 (19%)	5 (10%)	5 (10%)	5 (10%)	2 (4%)
Adrenal Medulla	(48)	(47)	(48)	(48)	(48)
Angiectasis		1 (2%)	1 (2%)		1 (2%)
Hyperplasia, Focal	1 (2%)	1 (2%)	1 (2%)		3 (6%)
Hypertrophy, Focal				1 (2%)	
Islets, Pancreatic	(48)	(47)	(48)	(48)	(48)
Parathyroid Gland	(46)	(46)	(45)	(47)	(47)

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Pituitary Gland	(48)	(48)	(47)	(48)	(48)
Angiectasis		2 (4%)	2 (4%)		1 (2%)
Pars Distalis, Cyst	4 (8%)	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Pars Distalis, Hyperplasia	4 (8%)	4 (8%)	1 (2%)	8 (17%)	4 (8%)
Pars Intermedia, Cyst			1 (2%)	1 (2%)	
Pars Nervosa, Cyst					1 (2%)
Thyroid Gland	(47)	(48)	(48)	(48)	(48)
C-cell, Hyperplasia	6 (13%)	6 (13%)	5 (10%)	4 (8%)	15 (31%)
Follicle, Cyst	1 (2%)	1 (2%)		1 (2%)	
Follicular Cell, Hyperplasia	2 (4%)	1 (2%)			
GENERAL BODY SYSTEM					
Tissue NOS	(1)	(0)	(1)	(0)	(0)
GENITAL SYSTEM					
Clitoral Gland	(47)	(48)	(47)	(48)	(48)
Hyperplasia	1 (2%)	1 (2%)			
Inflammation	22 (47%)	28 (58%)	22 (47%)	24 (50%)	29 (60%)
Duct, Ectasia	16 (34%)	10 (21%)	9 (19%)	10 (21%)	12 (25%)
Ovary	(48)	(48)	(48)	(48)	(48)
Atrophy	43 (90%)	44 (92%)	43 (90%)	41 (85%)	38 (79%)
Cyst	5 (10%)	3 (6%)	3 (6%)	5 (10%)	4 (8%)
Infiltration Cellular, Histiocyte					1 (2%)
Infiltration Cellular, Lymphocyte					1 (2%)
Uterus	(48)	(48)	(48)	(48)	(48)
Angiectasis			1 (2%)		
Inflammation		2 (4%)		1 (2%)	1 (2%)
Prolapse		1 (2%)			
Thrombosis					1 (2%)
Bilateral, Horn, Dilatation				1 (2%)	
Cervix, Mucocyte, Metaplasia	1 (2%)		1 (2%)		
Cervix, Muscularis, Hypertrophy				1 (2%)	
Endometrial Glands, Hyperplasia			1 (2%)	2 (4%)	

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Endometrium, Hyperplasia, Cystic	12 (25%)	15 (31%)	8 (17%)	10 (21%)	8 (17%)
Horn, Dilatation	1 (2%)		1 (2%)	1 (2%)	2 (4%)
Vagina	(5)	(4)	(1)	(4)	(1)
Dilatation	1 (20%)				
Inflammation		2 (50%)		1 (25%)	
Mucocyte, Metaplasia	3 (60%)	2 (50%)	1 (100%)	4 (100%)	1 (100%)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(48)	(47)	(48)	(48)	(48)
Atrophy	3 (6%)	1 (2%)	3 (6%)	4 (8%)	3 (6%)
Hyperplasia	3 (6%)	2 (4%)	1 (2%)	1 (2%)	
Thrombosis			1 (2%)		
Myeloid Cell, Hyperplasia	1 (2%)	1 (2%)			
Lymph Node	(9)	(6)	(10)	(9)	(7)
Degeneration, Cystic		1 (17%)			
Axillary, Infiltration Cellular, Plasma Cell	1 (11%)				
Iliac, Degeneration, Cystic	1 (11%)				
Lumbar, Degeneration, Cystic	1 (11%)			2 (22%)	
Lumbar, Medulla, Sinus, Dilatation	1 (11%)				
Mediastinal, Hemorrhage	1 (11%)				
Mediastinal, Hyperplasia, Lymphoid	1 (11%)		1 (10%)		
Mediastinal, Inflammation		1 (17%)			
Mediastinal, Pigmentation	1 (11%)				1 (14%)
Mediastinal, Medulla, Sinus, Dilatation	1 (11%)			1 (11%)	
Medulla, Pancreatic, Sinus, Dilatation					1 (14%)
Pancreatic, Necrosis	1 (11%)				
Renal, Degeneration, Cystic	1 (11%)				
Renal, Hemorrhage			1 (10%)	1 (11%)	1 (14%)
Renal, Hyperplasia, Lymphoid	1 (11%)			1 (11%)	1 (14%)
Lymph Node, Mandibular	(48)	(48)	(48)	(48)	(48)
Atrophy, Lymphocyte					1 (2%)
Degeneration, Cystic	4 (8%)	2 (4%)	5 (10%)	6 (13%)	7 (15%)
Hyperplasia, Lymphoid	1 (2%)		2 (4%)		1 (2%)
Infiltration Cellular, Plasma Cell	8 (17%)	6 (13%)	2 (4%)	7 (15%)	4 (8%)

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Medulla, Sinus, Dilatation	1 (2%)				1 (2%)
Lymph Node, Mesenteric	(48)	(47)	(48)	(47)	(48)
Degeneration, Cystic	1 (2%)	3 (6%)	1 (2%)		
Hemorrhage	1 (2%)		1 (2%)	1 (2%)	1 (2%)
Hyperplasia, Lymphoid		1 (2%)	1 (2%)	1 (2%)	2 (4%)
Infiltration Cellular, Histiocyte				1 (2%)	
Infiltration Cellular, Mast Cell				1 (2%)	
Lymphocyte, Atrophy	1 (2%)			2 (4%)	1 (2%)
Medulla, Sinus, Dilatation			1 (2%)		
Spleen	(48)	(48)	(48)	(48)	(48)
Accessory Spleen			1 (2%)		
Hematopoietic Cell Proliferation	15 (31%)	7 (15%)	7 (15%)	10 (21%)	8 (17%)
Hyperplasia, Lymphoid					1 (2%)
Infarct	3 (6%)				
Pigmentation	5 (10%)	6 (13%)	4 (8%)	6 (13%)	3 (6%)
Capsule, Proliferation Connective Tissue		1 (2%)			
Red Pulp, Atrophy	1 (2%)	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Red Pulp, Hyperplasia		2 (4%)			
Thymus	(46)	(45)	(45)	(47)	(47)
Atrophy	40 (87%)	39 (87%)	40 (89%)	44 (94%)	44 (94%)
Cyst	1 (2%)	1 (2%)	3 (7%)	1 (2%)	4 (9%)
Hemorrhage					1 (2%)
Infiltration Cellular, Polymorphonuclear				1 (2%)	
INTEGUMENTARY SYSTEM					
Mammary Gland	(48)	(47)	(46)	(48)	(48)
Galactocele	6 (13%)	2 (4%)	5 (11%)	9 (19%)	6 (13%)
Inflammation	1 (2%)		1 (2%)		
Lactation	23 (48%)	22 (47%)	27 (59%)	30 (63%)	23 (48%)
Alveolus, Hyperplasia	26 (54%)	29 (62%)	33 (72%)	37 (77%)	37 (77%)
Skin	(48)	(48)	(48)	(48)	(48)
Fibrosis			1 (2%)		
Inflammation		1 (2%)	3 (6%)	2 (4%)	1 (2%)
Ulcer		1 (2%)	1 (2%)		2 (4%)

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 Species/Strain: RATS/F 344/NCTR

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Acrylamide
 CAS Number: 79-06-1

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Epidermis, Hyperplasia		1 (2%)			1 (2%)
Epidermis, Necrosis				2 (4%)	
Tail, Hyperkeratosis					1 (2%)
MUSCULOSKELETAL SYSTEM					
Bone	(1)	(0)	(0)	(0)	(0)
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Fibrous Osteodystrophy					1 (2%)
Osteopetrosis	3 (6%)	6 (13%)	2 (4%)	2 (4%)	5 (10%)
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)
NERVOUS SYSTEM					
Brain, Brain Stem	(48)	(48)	(48)	(48)	(48)
Gliosis, Focal					1 (2%)
Hemorrhage			1 (2%)		
Infiltration Cellular, Mononuclear Cell		1 (2%)			
Hypothalamus, Compression	8 (17%)	8 (17%)	10 (21%)	13 (27%)	10 (21%)
Brain, Cerebellum	(48)	(48)	(48)	(48)	(48)
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Compression	1 (2%)				
Gliosis, Focal	1 (2%)			1 (2%)	
Ventricle, Dilatation	2 (4%)	1 (2%)		2 (4%)	1 (2%)
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Axon, Degeneration	19 (40%)	4 (8%)	1 (2%)	3 (6%)	4 (8%)
Spinal Cord	(0)	(1)	(0)	(0)	(0)
Keratin Cyst		1 (100%)			
Spinal Cord, Cervical	(48)	(48)	(48)	(48)	(48)
Cyst	1 (2%)				
Gliosis, Focal	1 (2%)				
Hemorrhage		2 (4%)			
Axon, Degeneration	10 (21%)	16 (33%)	15 (31%)	18 (38%)	22 (46%)
Nerve, Degeneration		1 (2%)			2 (4%)
Spinal Cord, Lumbar	(48)	(48)	(48)	(48)	(48)

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Gliosis, Focal	2 (4%)		1 (2%)		
Axon, Degeneration	2 (4%)	1 (2%)	4 (8%)	2 (4%)	1 (2%)
Nerve, Degeneration	15 (31%)	16 (33%)	17 (35%)	21 (44%)	16 (33%)
Spinal Cord, Thoracic	(48)	(48)	(48)	(48)	(48)
Gliosis, Focal	1 (2%)				
Axon, Degeneration	16 (33%)	15 (31%)	20 (42%)	22 (46%)	18 (38%)
Nerve, Degeneration	1 (2%)			1 (2%)	1 (2%)
RESPIRATORY SYSTEM					
Lung	(48)	(48)	(48)	(48)	(48)
Foreign Body		1 (2%)			
Granuloma	4 (8%)	4 (8%)	9 (19%)	5 (10%)	6 (13%)
Inflammation	4 (8%)	3 (6%)	4 (8%)	1 (2%)	1 (2%)
Alveolar Epithelium, Hyperplasia	2 (4%)	1 (2%)			1 (2%)
Alveolus, Infiltration Cellular, Histiocyte	8 (17%)	10 (21%)	10 (21%)	7 (15%)	13 (27%)
Nose	(48)	(48)	(48)	(48)	(47)
Foreign Body		2 (4%)			
Fungus	1 (2%)				
Inflammation	8 (17%)	8 (17%)	7 (15%)	6 (13%)	5 (11%)
Osteopetrosis	2 (4%)	4 (8%)	1 (2%)	2 (4%)	3 (6%)
SPECIAL SENSES SYSTEM					
Eye	(46)	(45)	(47)	(48)	(45)
Cataract	1 (2%)	1 (2%)	3 (6%)	2 (4%)	
Phthisis Bulbi		1 (2%)	1 (2%)		
Retina, Degeneration	23 (50%)	21 (47%)	16 (34%)	16 (33%)	14 (31%)
Sclera, Metaplasia, Osseous	1 (2%)		1 (2%)		2 (4%)
Harderian Gland	(48)	(48)	(48)	(48)	(48)
Atrophy				1 (2%)	1 (2%)
Infiltration Cellular, Lymphocyte	17 (35%)	17 (35%)	17 (35%)	17 (35%)	14 (29%)
Inflammation	1 (2%)	1 (2%)		1 (2%)	1 (2%)
Lacrimal Gland	(1)	(0)	(1)	(1)	(0)
Metaplasia			1 (100%)	1 (100%)	

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 Acrylamide
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Zymbal's Gland Hyperplasia	(3) 1 (33%)	(0)	(0)	(1)	(0)
URINARY SYSTEM					
Kidney	(48)	(48)	(48)	(48)	(48)
Accumulation, Hyaline Droplet		1 (2%)			
Cyst	2 (4%)				
Hydronephrosis	1 (2%)			1 (2%)	
Infarct				1 (2%)	
Infiltration Cellular, Lymphocyte				1 (2%)	
Mineralization	24 (50%)	24 (50%)	22 (46%)	21 (44%)	21 (44%)
Nephropathy	26 (54%)	33 (69%)	32 (67%)	34 (71%)	44 (92%)
Pigmentation		2 (4%)			
Cortex, Inflammation, Chronic		1 (2%)			
Renal Tubule, Necrosis			1 (2%)		
Urinary Bladder	(47)	(48)	(48)	(48)	(48)
Dilatation	1 (2%)	3 (6%)		1 (2%)	1 (2%)
Infiltration Cellular, Lymphocyte	1 (2%)		1 (2%)		2 (4%)

*** END OF REPORT ***

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