P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

F1_R2

C Number:	C96019		
Lock Date:	07/14/2004		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
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)

FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Disposition Summary				
Animals Initially in Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	15	17	17	17
Natural Death	4	7	8	4
Survivors				
Terminal Sacrifice	31	26	25	29
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(48)	(48)	(47)	(49)
Edema	5 [1.4]	1 [1.0]	1 [1.0]	6 [1.8]
Inflammation	1 [3.0]			1 [2.0]
Intestine Large, Colon	(50)	(49)	(50)	(48)
Inflammation		1 [4.0]		
Intestine Large, Rectum	(50)	(50)	(50)	(49)
Intestine Small, Duodenum	(50)	(49)	(50)	(49)
Intestine Small, Ileum	(49)	(46)	(47)	(49)
Inflammation				1 [2.0]
Intestine Small, Jejunum	(47)	(46)	(46)	(48)
Inflammation	1 [1.0]			
Liver	(50)	(50)	(50)	(50)
Amyloid Deposition		1 [1.0]		
Angiectasis	2 [1.0]	5 [1.2]	2 [1.0]	2 [1.5]
Basophilic Focus	6	5	4	3
Clear Cell Focus	22	21 [3.0]	23	20
Degeneration, Cystic	13 [1.2]	13 [1.3]	12 [1.3]	18 [1.2]
Eosinophilic Focus	2	5	4	8
Hepatodiaphragmatic Nodule	11 [1.5]	13 [1.9]	7 [1.6]	4 [1.7]
Inflammation, Chronic	10 [1.0]	12 [1.1]	12 [1.1]	8 [1.0]
Malformation				1
Mixed Cell Focus	4	3	4	2
Necrosis, Focal		2 [1.0]	2 [1.0]	
Bile Duct, Hyperplasia	45 [2.4]	49 [2.7]	46 [2.5]	44 [2.4]
Centrilobular, Necrosis	4 [1.3]	7 [1.3]	8 [1.4]	8 [1.4]

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)

FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Hepatocyte, Vacuolization Cytoplasmic	3 [2.0]	6 [1.5]	3 [1.7]	2 [2.0]
Mesentery	(6)	(16)	(15)	(15)
Accessory Spleen			1 [2.0]	1 [2.0]
Angiectasis			1 [2.0]	
Degeneration				1 [1.0]
Fat, Necrosis	6 [2.8]	8 [2.6]	9 [2.8]	9 [2.4]
Oral Mucosa	(0)	(0)	(1)	(1)
Pancreas	(50)	(50)	(50)	(50)
Atrophy	29 [1.3]	28 [1.5]	26 [1.6]	29 [1.4]
Cyst				1 [2.0]
Acinus, Hyperplasia, Focal	7 [1.4]	3 [1.3]	2 [2.0]	7 [1.9]
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation				1 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	4 [2.3]	4 [1.8]	4 [1.5]	6 [2.3]
Erosion			1 [1.0]	1 [1.0]
Inflammation, Chronic Active		1 [2.0]		
Ulcer	3 [3.0]	3 [2.7]	2 [3.5]	5 [3.6]
Epithelium, Hyperplasia	6 [2.2]	5 [2.4]	5 [1.8]	8 [2.5]
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema	4 [1.5]	3 [1.7]	1 [1.0]	6 [1.7]
Erosion	7 [2.4]	5 [2.2]	7 [2.0]	8 [1.8]
Hyperplasia	1 [2.0]			
Ulcer	2 [3.0]	3 [1.7]	2 [3.0]	
Tongue	(0)	(1)	(0)	(1)
Hyperplasia				1 [1.0]
Tooth	(0)	(0)	(0)	(2)
Malformation				2 [2.0]
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	47 [1.7]	46 [1.7]	48 [1.8]	48 [1.7]
Thrombosis	4 [2.3]	3 [3.3]	4 [3.0]	6 [3.3]
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	23 [1.0]	27 [1.1]	28 [1.0]	19 [1.1]

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)

FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Hyperplasia, Focal	11 [1.8]	13 [1.5]	12 [1.3]	9 [1.3]
Hyperplasia, Diffuse		1 [2.0]		
Hypertrophy, Focal	5 [1.4]	3 [1.0]	3 [1.0]	4 [1.5]
Necrosis	1 [4.0]			
Bilateral, Atrophy			1 [4.0]	
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	19 [1.8]	22 [2.0]	20 [1.8]	28 [2.0]
Necrosis				1 [3.0]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia		1 [3.0]		1 [2.0]
Pituitary Gland	(48)	(50)	(50)	(50)
Pars Distalis, Angiectasis	23 [2.1]	27 [2.3]	23 [2.3]	20 [2.2]
Pars Distalis, Cyst	5 [1.6]	1 [1.0]	4 [1.5]	4 [1.5]
Pars Distalis, Hemorrhage	1 [4.0]			
Pars Distalis, Hyperplasia				1 [4.0]
Pars Distalis, Hyperplasia, Focal	10 [1.9]	8 [1.1]	9 [2.0]	9 [1.6]
Pars Intermedia, Cyst			1 [1.0]	
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst	2 [1.0]	3 [1.0]	3 [1.0]	1 [1.0]
C-cell, Hyperplasia	21 [1.7]	15 [2.0]	15 [2.0]	24 [1.4]
Follicle, Cyst	11 [1.3]	11 [1.3]	5 [1.4]	9 [1.0]
GENERAL BODY SYSTEM				
Peritoneum	(0)	(4)	(2)	(3)
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Hyperplasia, Mesothelium		1 [1.0]		
Preputial Gland	(50)	(49)	(50)	(49)
Cyst	4 [1.8]	4 [1.5]	3 [1.7]	7 [1.9]
Inflammation, Chronic	3 [2.0]	2 [2.0]	8 [1.8]	6 [1.8]
Prostate	(50)	(50)	(50)	(50)
Inflammation, Chronic	36 [1.7]	32 [1.7]	35 [1.8]	34 [1.8]
Epithelium, Hyperplasia	7 [1.3]	4 [1.0]	7 [1.0]	5 [1.2]
Seminal Vesicle	(50)	(50)	(50)	(50)
Inflammation				1 [3.0]
Testes	(50)	(50)	(50)	(50)

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)

FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Germinal Epithelium, Atrophy	13 [2.5]	12 [2.3]	7 [2.3]	10 [2.3]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	5 [2.2]	7 [2.0]	8 [2.1]	3 [2.0]
Myelofibrosis		1 [1.0]		2 [2.0]
Lymph Node	(14)	(31)	(19)	(25)
Deep Cervical, Hemorrhage		1 [2.0]		
Mediastinal, Congestion	1 [1.0]			
Mediastinal, Hemorrhage		6 [1.3]	1 [3.0]	4 [1.5]
Mediastinal, Hyperplasia, Lymphoid	6 [1.5]	8 [1.3]	9 [1.2]	7 [1.4]
Pancreatic, Amyloid Deposition		1 [3.0]		
Pancreatic, Hyperplasia, Lymphoid		4 [1.0]	4 [1.0]	
Lymph Node, Mandibular	(1)	(3)	(0)	(0)
Hyperplasia, Lymphoid		1 [1.0]		
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hyperplasia, Lymphoid		9 [1.2]	4 [1.0]	
Spleen	(50)	(50)	(50)	(50)
Accessory Spleen				1 [1.0]
Amyloid Deposition		1 [1.0]		
Fibrosis	1 [1.0]	2 [1.5]	2 [2.0]	3 [2.0]
Hematopoietic Cell Proliferation	5 [2.0]	7 [2.3]	6 [2.7]	3 [3.0]
Necrosis		1 [3.0]		
Pigmentation		1 [1.0]	2 [1.5]	1 [1.0]
Lymphoid Follicle, Hyperplasia		1 [3.0]		
Thymus	(49)	(50)	(50)	(48)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Cyst	21 [1.5]	14 [1.5]	16 [1.6]	18 [1.2]
Hyperplasia	2 [1.5]			1 [2.0]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	2 [2.5]	2 [2.0]	1 [3.0]	3 [2.3]
Hyperplasia	2 [2.5]			2 [2.0]
Inflammation, Chronic	1 [2.0]			
Epidermis, Hyperplasia			1 [3.0]	

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b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Cranium, Osteopetrosis		4 [1.5]		2 [1.5]
Femur, Osteopetrosis	1 [3.0]			1 [2.0]
Skeletal Muscle	(1)	(4)	(0)	(1)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	5 [3.4]	8 [3.3]	11 [3.0]	5 [3.4]
Hemorrhage	2 [1.0]	3 [1.7]	4 [2.3]	1 [4.0]
Necrosis	1 [2.0]			
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Hemorrhage	2 [1.0]	2 [1.0]		3 [1.3]
Infiltration Cellular, Histiocyte	24 [1.2]	23 [1.0]	27 [1.0]	25 [1.0]
Inflammation, Chronic	5 [1.2]	3 [1.0]	7 [1.3]	6 [1.3]
Alveolar Epithelium, Hyperplasia	7 [1.6]	14 [1.9]	14 [1.6]	10 [1.9]
Nose	(50)	(50)	(50)	(50)
Foreign Body	14 [1.1]	9 [1.0]	14 [1.2]	18 [1.0]
Inflammation, Chronic	18 [1.2]	9 [1.0]	16 [1.6]	21 [1.2]
Nasolacrimal Duct, Cyst	1 [2.0]	1 [4.0]		
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	2 [2.5]	3 [2.3]	3 [2.0]	2 [2.0]
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia, Focal	1 [1.0]	1 [1.0]		
Inflammation, Chronic	1 [1.0]	1 [2.0]		3 [1.0]
Zymbal's Gland	(1)	(1)	(1)	(0)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)

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FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Cyst	1 [1.0]			1 [2.0]
Infarct	1 [1.0]	2 [2.0]		2 [2.5]
Nephropathy	47 [1.8]	47 [1.9]	43 [1.9]	45 [2.1]
Pelvis, Inflammation				1 [2.0]
Renal Tubule, Pigmentation			1 [4.0]	
Transitional Epithelium, Hyperplasia	1 [1.0]			2 [1.0]
Urinary Bladder	(50)	(50)	(50)	(49)
Hemorrhage				1 [2.0]
Inflammation				1 [2.0]

*** END OF MALE ***

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)

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Disposition Summary				
Animals Initially in Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	12	14	9	13
Natural Death	4	5	4	2
Survivors				
Natural Death			1	
Terminal Sacrifice	34	31	36	35
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Cecum	(48)	(47)	(48)	(49)
Intestine Large, Colon	(50)	(49)	(50)	(50)
Hyperplasia				1 [2.0]
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Hyperplasia			1 [4.0]	
Inflammation				1 [2.0]
Intestine Small, Duodenum	(49)	(48)	(49)	(49)
Ectopic Tissue		1 [1.0]		
Intestine Small, Ileum	(47)	(47)	(48)	(48)
Intestine Small, Jejunum	(47)	(47)	(48)	(48)
Liver	(50)	(50)	(50)	(50)
Angiectasis		2 [1.0]	2 [1.0]	
Basophilic Focus	39	37	37	31
Clear Cell Focus	14	11	16	17
Degeneration, Cystic	1 [1.0]			
Eosinophilic Focus	1	6	9	15
Hemorrhage	1 [1.0]			
Hepatodiaphragmatic Nodule	11 [1.7]	10 [1.9]	5 [2.0]	8 [1.7]
Inflammation, Chronic	14 [1.1]	17 [1.1]	19 [1.2]	10 [1.0]
Mixed Cell Focus	1	4	6	10
Necrosis, Focal			1 [1.0]	2 [1.0]
Bile Duct, Hyperplasia	19 [1.5]	19 [1.9]	21 [1.7]	16 [2.1]
Hepatocyte, Vacuolization Cytoplasmic	6 [1.7]	4 [1.0]	3 [1.7]	3 [1.0]
Mesentery	(9)	(9)	(9)	(6)
Accessory Spleen	1 [1.0]		1 [2.0]	

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)

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Hemorrhage				1 [2.0]
Fat, Necrosis	7 [2.6]	9 [2.4]	8 [2.4]	4 [2.3]
Oral Mucosa	(2)	(0)	(0)	(1)
Pancreas	(50)	(50)	(50)	(50)
Atrophy	21 [1.2]	20 [1.5]	22 [1.2]	22 [1.2]
Cyst	1 [1.0]			
Acinus, Hyperplasia, Focal	2 [1.0]	1 [2.0]	1 [1.0]	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema		2 [2.0]	2 [2.0]	1 [1.0]
Erosion			1 [2.0]	
Perforation				1 [4.0]
Ulcer	1 [3.0]	2 [3.5]		1 [4.0]
Epithelium, Hyperplasia	6 [1.0]	2 [3.0]	3 [2.0]	6 [1.5]
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema		1 [1.0]	3 [2.0]	2 [1.5]
Erosion	2 [1.0]		5 [2.4]	2 [1.5]
Ulcer		2 [2.0]		1 [3.0]
Tongue	(1)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	44 [1.3]	43 [1.3]	48 [1.2]	44 [1.4]
Thrombosis		1 [4.0]		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	17 [1.0]	11 [1.0]	12 [1.0]	13 [1.1]
Hyperplasia, Focal	17 [2.0]	17 [2.1]	18 [1.7]	25 [2.1]
Hypertrophy, Focal	5 [1.2]	2 [1.0]	3 [1.0]	6 [1.3]
Adrenal Medulla	(49)	(47)	(50)	(50)
Hemorrhage				1 [3.0]
Hyperplasia	5 [1.8]	6 [2.0]	4 [1.5]	7 [1.7]
Necrosis				1 [3.0]
Islets, Pancreatic	(49)	(50)	(50)	(50)
Hyperplasia	1 [4.0]		1 [1.0]	
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Angiectasis	32 [2.0]	32 [2.4]	33 [2.0]	30 [1.8]

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)

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Pars Distalis, Cyst	28 [1.6]	27 [1.8]	31 [1.8]	29 [2.0]
Pars Distalis, Hyperplasia				1 [3.0]
Pars Distalis, Hyperplasia, Focal	14 [1.6]	11 [1.8]	6 [2.0]	17 [2.1]
Pars Intermedia, Cyst			1 [1.0]	
Thyroid Gland	(49)	(50)	(50)	(50)
Ultimobranchial Cyst	1 [1.0]	1 [1.0]	2 [1.0]	1 [1.0]
C-cell, Hyperplasia	25 [1.5]	28 [1.8]	23 [1.4]	23 [1.4]
Follicle, Cyst	5 [1.0]	3 [1.7]	2 [2.0]	4 [1.0]
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Clitoral Gland	(50)	(49)	(50)	(47)
Cyst	4 [2.0]	6 [2.0]	7 [1.6]	7 [1.1]
Hyperplasia	1 [2.0]			1 [2.0]
Inflammation, Chronic	2 [2.0]	2 [1.0]	3 [1.7]	2 [1.0]
Inflammation, Chronic Active				1 [3.0]
Ovary	(50)	(50)	(50)	(50)
Cyst	7 [1.7]	10 [1.9]	6 [1.8]	11 [1.5]
Uterus	(50)	(50)	(50)	(50)
Cyst			1 [1.0]	1 [1.0]
Hemorrhage		1 [2.0]		1 [1.0]
Hydrometra	1 [1.0]	2 [1.5]	4 [1.3]	4 [1.3]
Inflammation, Chronic		1 [2.0]		
Cervix, Cyst			1 [2.0]	1 [2.0]
Cervix, Hypertrophy				1 [3.0]
Endometrium, Cyst				1
Endometrium, Hyperplasia	1 [3.0]			
Vagina	(0)	(1)	(0)	(1)
Cyst		1 [2.0]		
Inflammation, Acute				1 [4.0]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)

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)

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Hyperplasia	6 [1.7]	7 [1.9]	5 [1.6]	6 [1.7]
Myelofibrosis	1 [2.0]			
Lymph Node	(15)	(20)	(11)	(16)
Deep Cervical, Hyperplasia, Lymphoid	1 [1.0]			
Mediastinal, Hemorrhage	2 [1.5]	1 [1.0]		2 [1.0]
Mediastinal, Hyperplasia, Lymphoid	6 [1.5]	14 [1.1]	8 [1.0]	11 [1.3]
Pancreatic, Hyperplasia, Lymphoid	1 [1.0]		1 [1.0]	1 [1.0]
Lymph Node, Mandibular	(0)	(2)	(1)	(1)
Hyperplasia, Lymphoid				1 [1.0]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Edema				1 [2.0]
Hyperplasia, Lymphoid	2 [1.0]	3 [1.0]	3 [1.7]	8 [1.4]
Spleen	(50)	(50)	(50)	(50)
Fibrosis			1 [1.0]	2 [1.5]
Hematopoietic Cell Proliferation	3 [1.3]	11 [1.2]	10 [1.2]	8 [2.0]
Necrosis	1 [2.0]			
Pigmentation	3 [1.7]	6 [1.0]	4 [1.0]	2 [2.5]
Thymus	(50)	(50)	(50)	(50)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Cyst	47 [1.5]	47 [1.5]	46 [1.6]	45 [1.6]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		1 [3.0]		
Edema		1 [1.0]		
Hyperkeratosis	1 [1.0]			
Inflammation, Chronic	1 [4.0]			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Cranium, Osteopetrosis		1 [2.0]		
Femur, Osteopetrosis	1 [2.0]	1 [1.0]		3 [2.0]
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)

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)

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Compression	10 [2.8]	15 [2.3]	9 [2.1]	10 [2.1]
Hemorrhage			3 [2.7]	
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion		2 [1.0]		
Hemorrhage	1 [1.0]			2 [2.0]
Infiltration Cellular, Histiocyte	36 [1.0]	44 [1.0]	44 [1.0]	45 [1.0]
Inflammation, Chronic	8 [1.0]	10 [1.0]	6 [1.0]	7 [1.0]
Metaplasia, Osseous			1 [1.0]	
Alveolar Epithelium, Hyperplasia	5 [1.8]	7 [2.1]	8 [1.6]	18 [1.8]
Pleura, Fibrosis	1 [2.0]			
Nose	(50)	(50)	(50)	(50)
Foreign Body	2 [1.0]	1 [1.0]	3 [1.0]	2 [1.0]
Inflammation, Chronic	3 [2.0]	1 [1.0]	3 [1.0]	6 [1.5]
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	4 [2.5]	2 [2.5]	2 [2.5]	3 [2.3]
Harderian Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic	3 [1.0]	5 [1.0]	4 [1.0]	
Zymbal's Gland	(0)	(2)	(0)	(0)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Infarct		2 [2.0]	2 [2.0]	7 [1.7]
Nephropathy	36 [1.1]	42 [1.1]	43 [1.4]	40 [1.3]
Cortex, Inflammation, Chronic				1 [2.0]
Transitional Epithelium, Hyperplasia, Diffuse		3 [1.7]	2 [2.0]	6 [2.3]
Transitional Epithelium, Inflammation, Chronic Active		3 [1.7]	3 [2.0]	6 [2.2]
Urinary Bladder	(50)	(50)	(50)	(50)

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)

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

*** END OF REPORT ***

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)