

Experiment Number: 20314 - 03

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

Date Report Requested: 12/17/2014

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

NTP Study Number: C20314
Lock Date: 11/01/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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FISCHER 344 RATS-NCTR RATS MALE

0.70 GLYCID

0.35 GLYCID

0.175 GLYCID

0.0875 GLYCID

CONTROL WATER

Disposition Summary

	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	36	26	24	13	16
Natural Death	1	2	4	10	4
Survivors					
Moribund Sacrifice	7	10	4	5	7
Natural Death	2	2	1	2	
Terminal Sacrifice	2	7	15	18	21
Other		1			
Animals Examined Microscopically	48	47	48	48	48

ALIMENTARY SYSTEM

Esophagus	(48)	(47)	(48)	(47)	(48)
Inflammation, Suppurative		1 [4.0]			
Ulcer		1 [4.0]			
Intestine Large, Cecum	(46)	(42)	(43)	(37)	(45)
Hyperplasia, Lymphoid		1 [1.0]			
Lumen, Dilatation		1 [3.0]			
Intestine Large, Colon	(45)	(43)	(44)	(38)	(46)
Hyperplasia, Lymphoid					1 [2.0]
Intestine Large, Rectum	(45)	(44)	(44)	(37)	(46)
Edema					1 [4.0]
Intestine Small, Duodenum	(46)	(43)	(43)	(37)	(46)
Inflammation, Chronic Active				1 [3.0]	
Necrosis				1 [3.0]	
Epithelium, Hyperplasia		1 [4.0]		1 [4.0]	
Intestine Small, Ileum	(45)	(43)	(43)	(37)	(45)
Hyperplasia, Lymphoid	2 [2.0]				
Epithelium, Hyperplasia		1 [3.0]			
Intestine Small, Jejunum	(45)	(43)	(43)	(36)	(45)
Bacterium				1 [4.0]	
Hyperplasia, Lymphoid	1 [2.0]				
Inflammation, Chronic Active				1 [4.0]	

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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Necrosis				1 [4.0]	
Liver	(47)	(47)	(48)	(47)	(47)
Angiectasis	1 [4.0]				1 [3.0]
Basophilic Focus	2	7	6	1	6
Basophilic Focus, Multiple	2	1	5	8	10
Clear Cell Focus	1			2	2
Congestion	1 [3.0]	1 [4.0]	1 [3.0]		
Deformity	3	4	3	4	3
Degeneration, Cystic	21 [3.0]	13 [2.6]	21 [2.5]	20 [3.1]	16 [2.7]
Eosinophilic Focus	3	5	9	6	10
Eosinophilic Focus, Multiple	2	2	5	5	7
Granuloma					1 [2.0]
Hemorrhage			1 [4.0]		
Hepatodiaphragmatic Nodule	1	1		1	
Hypertrophy				1 [4.0]	
Infiltration Cellular, Lymphocyte	1 [3.0]	1 [3.0]			
Infiltration Cellular, Polymorphonuclear				1 [4.0]	
Inflammation, Chronic Active	2 [1.5]	4 [1.3]	7 [1.7]	5 [1.2]	7 [1.7]
Mineralization		1 [1.0]			
Mixed Cell Focus	2	2	2	2	1
Necrosis	5 [3.4]	7 [3.0]	2 [3.0]	5 [3.2]	1 [1.0]
Pigmentation	3 [2.3]	5 [2.2]	6 [2.5]	5 [2.4]	3 [2.3]
Thrombosis	2 [4.0]			2 [4.0]	1 [3.0]
Vacuolization Cytoplasmic	12 [3.0]	12 [3.1]	14 [2.8]	15 [3.3]	17 [2.8]
Bile Duct, Hyperplasia	36 [3.3]	38 [2.9]	39 [3.1]	38 [3.1]	39 [2.9]
Biliary Tract, Fibrosis		1 [3.0]	1 [3.0]	1 [4.0]	
Hepatocyte, Degeneration	8 [3.8]	10 [3.6]	6 [3.8]	6 [3.8]	2 [4.0]
Hepatocyte, Hyperplasia			2 [4.0]	1 [4.0]	1 [4.0]
Oval Cell, Hyperplasia	1 [4.0]		1 [4.0]		
Mesentery	(4)	(9)	(6)	(8)	(3)
Hemorrhage			1 [3.0]		
Pigmentation			1 [4.0]		
Fat, Necrosis	1 [1.0]	7 [3.6]	6 [3.3]	6 [3.7]	2 [3.5]
Oral Mucosa	(7)	(6)	(2)	(3)	(4)
Foreign Body			1		
Keratin Cyst	1	1			

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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Epithelium, Hyperplasia	2 [3.0]	3 [3.0]	1 [2.0]	2 [3.0]	2 [1.0]
Epithelium, Hyperplasia, Basal Cell	1 [2.0]				
Pancreas	(48)	(46)	(47)	(44)	(48)
Angiectasis	1 [4.0]				
Inflammation, Chronic Active					1 [4.0]
Polyarteritis				1 [2.0]	
Vacuolization Cytoplasmic			1 [2.0]		
Acinar Cell, Hyperplasia		1 [4.0]	1 [4.0]		
Acinus, Degeneration	23 [2.5]	25 [2.4]	19 [2.3]	30 [2.7]	25 [2.5]
Salivary Glands	(47)	(46)	(48)	(44)	(48)
Stomach, Forestomach	(47)	(47)	(46)	(46)	(46)
Edema					1 [3.0]
Inflammation, Chronic Active		3 [3.3]	2 [2.5]	3 [3.3]	
Ulcer		5 [3.8]	2 [3.5]	3 [3.7]	
Epithelium, Hyperplasia	2 [2.5]	9 [2.8]	3 [2.3]	6 [2.7]	4 [2.5]
Stomach, Glandular	(46)	(44)	(44)	(38)	(46)
Edema					1 [2.0]
Inflammation, Suppurative			1 [3.0]		
Inflammation, Chronic Active		1 [3.0]	3 [2.3]		2 [2.5]
Necrosis	4 [3.0]	2 [3.0]	2 [3.5]	3 [3.0]	5 [2.6]
Pigmentation	1 [3.0]	1 [2.0]	1 [2.0]	2 [3.5]	1 [2.0]
Ulcer	1 [2.0]		2 [3.0]	1 [4.0]	1 [2.0]
Epithelium, Degeneration		1 [2.0]	1 [3.0]		
Epithelium, Hyperplasia	1 [2.0]				2 [3.5]
Tongue	(6)	(2)	(1)	(1)	(0)
Inflammation, Suppurative				1 [4.0]	
Epithelium, Hyperplasia		1 [3.0]			

CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(47)	(48)	(48)	(48)
Heart	(48)	(47)	(48)	(48)	(48)
Cardiomyopathy	34 [2.1]	31 [2.0]	36 [2.1]	37 [2.1]	37 [2.4]
Congestion	1 [4.0]	1 [4.0]			
Metaplasia, Osseous	2 [2.0]			1 [2.0]	

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Mineralization			1 [2.0]	2 [2.5]	1 [2.0]
Pigmentation					1 [3.0]
Thrombosis	9 [4.0]	8 [3.6]	14 [3.8]	14 [3.6]	10 [3.9]
Atrium, Dilatation	2 [4.0]		1 [4.0]	2 [4.0]	2 [3.5]
Ventricle, Dilatation	1 [4.0]	2 [4.0]	2 [4.0]		
ENDOCRINE SYSTEM					
Adrenal Cortex	(47)	(47)	(48)	(47)	(47)
Accessory Adrenal Cortical Nodule		3	1		
Atrophy	1 [4.0]				
Degeneration, Cystic	1 [4.0]			1 [3.0]	
Hyperplasia		1 [2.0]			3 [2.0]
Hypertrophy	3 [2.3]	1 [3.0]	2 [2.5]		1 [3.0]
Metaplasia, Osseous		1 [3.0]	1 [4.0]		
Thrombosis	1 [4.0]				
Vacuolization Cytoplasmic	34 [2.5]	28 [2.6]	31 [2.5]	27 [2.5]	26 [2.7]
Adrenal Medulla	(48)	(47)	(48)	(47)	(46)
Hyperplasia	6 [2.0]	5 [2.2]	7 [2.1]	11 [2.2]	13 [2.5]
Necrosis				1 [3.0]	
Islets, Pancreatic	(48)	(45)	(48)	(45)	(48)
Fibrosis				1 [3.0]	
Hyperplasia	3 [1.3]	2 [1.5]	2 [2.5]	4 [2.3]	
Parathyroid Gland	(48)	(45)	(47)	(47)	(48)
Hyperplasia	7 [2.3]	3 [2.3]	6 [2.2]	10 [1.8]	5 [2.2]
Pituitary Gland	(47)	(47)	(48)	(46)	(47)
Hemorrhage		1 [4.0]			
Inflammation, Suppurative		1 [4.0]			
Pars Distalis, Angiectasis				1 [2.0]	1 [2.0]
Pars Distalis, Cyst	3 [3.3]	1 [4.0]	3 [2.3]		2 [2.5]
Pars Distalis, Hyperplasia	8 [2.1]	10 [2.2]	6 [2.0]	10 [2.4]	10 [2.3]
Pars Intermedia, Cyst				1 [2.0]	
Pars Nervosa, Rathke's Cleft, Degeneration				2 [2.5]	
Thyroid Gland	(46)	(47)	(48)	(42)	(47)
Cyst		3 [1.7]	1 [3.0]	1 [2.0]	1 [2.0]

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C-cell, Hyperplasia	14 [1.4]	18 [1.3]	18 [1.3]	16 [1.6]	14 [1.3]
Follicular Cell, Hyperplasia	4 [1.8]		3 [1.7]	2 [1.5]	
GENERAL BODY SYSTEM					
Tissue NOS	(1)	(1)	(1)	(0)	(2)
GENITAL SYSTEM					
Coagulating Gland	(1)	(0)	(0)	(0)	(0)
Inflammation, Suppurative	1 [4.0]				
Necrosis	1 [4.0]				
Epithelium, Hyperplasia	1 [4.0]				
Epididymis	(47)	(47)	(48)	(45)	(48)
Exfoliated Germ Cell	4 [3.3]	3 [3.0]	2 [2.5]	1 [3.0]	
Hypospermia	24 [3.5]	31 [3.7]	31 [3.7]	29 [3.7]	36 [3.7]
Epithelium, Degeneration	18 [3.1]	28 [3.4]	27 [3.1]	25 [3.3]	31 [3.2]
Preputial Gland	(48)	(47)	(48)	(48)	(48)
Cyst	1 [4.0]		1 [4.0]		
Fibrosis	2 [4.0]				
Hemorrhage					1 [2.0]
Hyperkeratosis	2 [4.0]	1 [4.0]			
Infiltration Cellular, Plasma Cell				1 [3.0]	
Inflammation, Suppurative	18 [2.6]	24 [3.3]	25 [3.4]	27 [3.2]	21 [3.6]
Inflammation, Chronic Active	10 [2.3]	8 [2.1]	9 [2.1]	7 [2.1]	14 [2.1]
Necrosis	1 [4.0]	1 [4.0]			1 [3.0]
Acinus, Degeneration	22 [3.2]	26 [3.0]	25 [2.9]	25 [3.0]	24 [3.1]
Duct, Ectasia	17 [3.1]	23 [3.4]	24 [3.5]	24 [3.4]	25 [3.6]
Epithelium, Hyperplasia	2 [3.0]		2 [3.5]		
Prostate	(48)	(47)	(48)	(47)	(47)
Cyst Multilocular	2 [3.0]				1 [3.0]
Infiltration Cellular, Lymphocyte			1 [2.0]		
Inflammation, Suppurative	22 [2.8]	21 [2.4]	29 [2.4]	24 [2.6]	23 [2.5]
Inflammation, Chronic Active	7 [1.7]	8 [2.3]	8 [2.5]	6 [2.3]	11 [2.2]
Necrosis	1 [4.0]			1 [4.0]	

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Acinus, Degeneration		1 [3.0]			1 [4.0]
Epithelium, Hyperplasia	3 [1.7]	8 [2.0]	6 [2.0]	7 [1.7]	8 [2.3]
Seminal Vesicle	(47)	(46)	(46)	(38)	(47)
Atrophy	18 [3.1]	27 [3.5]	25 [3.2]	17 [3.7]	27 [3.4]
Inflammation, Suppurative	1 [4.0]				
Necrosis	1 [4.0]				
Epithelium, Hyperplasia	2 [3.0]				
Lumen, Dilatation		1 [1.0]	3 [2.0]	1 [4.0]	2 [2.0]
Testes	(48)	(47)	(48)	(47)	(48)
Cyst					1 [4.0]
Polyarteritis			1 [2.0]		2 [2.0]
Interstitial Cell, Hyperplasia	11 [1.5]	6 [1.3]	8 [1.6]	3 [2.0]	7 [2.0]
Seminiferous Tubule, Degeneration	41 [3.0]	38 [3.5]	36 [3.5]	35 [3.5]	38 [3.8]

HEMATOPOIETIC SYSTEM

Bone Marrow	(46)	(46)	(45)	(40)	(47)
Atrophy		1 [4.0]	1 [4.0]	4 [4.0]	
Hyperplasia	10 [2.6]	12 [2.4]	10 [2.4]	4 [2.5]	6 [2.3]
Lymph Node	(23)	(23)	(19)	(19)	(17)
Inguinal, Hyperplasia, Lymphoid		1 [3.0]			
Inguinal, Infiltration Cellular, Plasma Cell		1 [3.0]			
Lumbar, Hyperplasia, Lymphoid	1 [3.0]	1 [3.0]			
Lumbar, Infiltration Cellular, Plasma Cell	1 [4.0]		1 [4.0]		
Lumbar, Sinus, Dilatation	2 [2.5]	1 [3.0]	2 [3.5]	2 [2.5]	
Mediastinal, Hemorrhage	2 [2.0]	2 [3.0]		1 [3.0]	
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]				
Mediastinal, Pigmentation			1 [2.0]		
Mediastinal, Sinus, Dilatation	3 [2.0]	2 [2.0]	3 [2.3]	2 [2.0]	1 [2.0]
Pancreatic, Hemorrhage	1 [4.0]				
Pancreatic, Hyperplasia, Lymphoid	1 [2.0]	1 [4.0]	1 [2.0]	1 [1.0]	1 [2.0]
Pancreatic, Infiltration Cellular, Plasma Cell					1 [2.0]
Pancreatic, Sinus, Dilatation	2 [2.0]	2 [2.0]	1 [2.0]	1 [3.0]	
Renal, Hemorrhage				1 [2.0]	
Renal, Hyperplasia, Lymphoid	2 [2.5]				1 [2.0]

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Renal, Infiltration Cellular, Histiocyte					1 [4.0]
Renal, Infiltration Cellular, Plasma Cell			3 [2.7]		
Renal, Pigmentation	1 [3.0]				1 [2.0]
Renal, Sinus, Dilatation	3 [2.3]	2 [2.5]	5 [2.8]	1 [3.0]	5 [3.0]
Sinus, Dilatation				1 [4.0]	
Lymph Node, Mandibular	(47)	(47)	(48)	(45)	(48)
Hemorrhage		1 [2.0]	1 [3.0]	1 [4.0]	1 [2.0]
Hyperplasia, Lymphoid	11 [2.2]	7 [2.0]	6 [1.8]	6 [2.7]	7 [2.4]
Infiltration Cellular, Plasma Cell	19 [2.5]	20 [2.7]	21 [2.9]	21 [2.7]	27 [2.7]
Infiltration Cellular, Polymorphonuclear				1 [4.0]	
Sinus, Dilatation	6 [2.3]	6 [2.2]	9 [2.6]	10 [2.8]	15 [2.7]
Lymph Node, Mesenteric	(47)	(46)	(46)	(46)	(48)
Angiectasis			1 [4.0]		
Hemorrhage	3 [2.7]	1 [2.0]	1 [2.0]	1 [3.0]	
Hyperplasia, Lymphoid	10 [2.1]	12 [1.8]	11 [2.4]	9 [2.0]	15 [1.8]
Infiltration Cellular, Histiocyte	1 [3.0]		1 [4.0]		
Infiltration Cellular, Plasma Cell	1 [2.0]	1 [3.0]	2 [2.0]	6 [2.8]	8 [2.3]
Metaplasia, Osseous			1 [2.0]		
Sinus, Dilatation	5 [2.4]	5 [3.0]	2 [2.5]	2 [3.5]	3 [2.7]
Spleen	(47)	(47)	(48)	(47)	(48)
Accessory Spleen	3	1		3	1
Congestion	2 [4.0]	2 [4.0]	3 [4.0]	3 [4.0]	3 [4.0]
Depletion Lymphoid	1 [3.0]	1 [4.0]	1 [4.0]		
Developmental Malformation					1
Fibrosis	11 [3.5]	13 [2.9]	13 [3.2]	10 [3.4]	6 [2.7]
Hematopoietic Cell Proliferation	7 [2.9]	8 [2.8]	6 [2.7]	4 [2.8]	4 [2.3]
Hemorrhage	1 [4.0]	1 [3.0]	1 [4.0]	1 [4.0]	
Hyperplasia, Lymphoid	1 [3.0]		2 [2.5]	2 [2.5]	3 [2.0]
Hyperplasia, Stromal	1 [2.0]		1 [3.0]		
Necrosis	1 [4.0]	1 [3.0]	1 [4.0]	3 [4.0]	1 [3.0]
Pigmentation	9 [2.8]	13 [2.9]	15 [2.6]	17 [2.9]	19 [2.4]
Red Pulp, Hyperplasia					1 [4.0]
Thymus	(43)	(42)	(43)	(38)	(43)
Atrophy	40 [3.8]	34 [3.8]	41 [3.9]	37 [3.8]	40 [3.8]
Hemorrhage				1 [4.0]	

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INTEGUMENTARY SYSTEM

Mammary Gland	(42)	(44)	(45)	(42)	(45)
Fibrosis	1 [3.0]	1 [4.0]			
Galactocele	6 [3.3]	4 [3.8]	5 [3.4]	4 [3.3]	4 [3.8]
Lactation	7 [2.1]	6 [2.2]	17 [2.4]	8 [2.0]	12 [2.2]
Alveolus, Hyperplasia	1 [4.0]	1 [3.0]	4 [3.3]	1 [4.0]	2 [3.0]
Duct, Dilatation					1 [3.0]
Skin	(48)	(47)	(48)	(48)	(48)
Cyst Epithelial Inclusion	4	5 [4.0]	3	1	3
Fibrosis	2 [3.5]	2 [4.0]		1 [4.0]	2 [4.0]
Hyperkeratosis		1 [4.0]		2 [2.5]	1 [3.0]
Infiltration Cellular, Plasma Cell					1 [3.0]
Inflammation, Suppurative		1 [4.0]			
Inflammation, Chronic		1 [4.0]			
Inflammation, Chronic Active	1 [2.0]		1 [4.0]	1 [2.0]	1 [4.0]
Necrosis	1 [3.0]				1 [4.0]
Ulcer					1 [4.0]
Epithelium, Hyperplasia	1 [3.0]	1 [3.0]		2 [2.0]	
Sebaceous Gland, Hyperplasia	1 [3.0]				

MUSCULOSKELETAL SYSTEM

Bone	(1)	(3)	(2)	(0)	(1)
Cranium, Deformity		1	1		
Vertebra, Fracture					1
Bone, Femur	(48)	(47)	(48)	(48)	(48)
Fibrous Osteodystrophy	1 [2.0]	1 [3.0]	2 [3.0]	1 [4.0]	
Osteopetrosis		1 [3.0]		2 [4.0]	
Skeletal Muscle	(48)	(47)	(48)	(48)	(48)

NERVOUS 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

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Brain, Brain Stem	(48)	(47)	(48)	(48)	(48)
Compression	9 [2.4]	8 [2.1]	13 [3.2]	10 [2.3]	15 [2.9]
Gliosis	3 [3.0]			1 [1.0]	
Hemorrhage	1 [1.0]	1 [1.0]	1 [3.0]	2 [2.5]	1 [1.0]
Necrosis				1 [2.0]	
Brain, Cerebellum	(48)	(47)	(48)	(48)	(48)
Hemorrhage	1 [1.0]	1 [2.0]	1 [1.0]		
Infiltration Cellular, Polymorphonuclear		1 [2.0]			
Ventricle, Dilatation		1 [3.0]	3 [2.3]	1 [2.0]	2 [2.5]
Brain, Cerebrum	(48)	(47)	(48)	(48)	(48)
Compression		1 [3.0]			
Gliosis	2 [3.0]				
Hemorrhage	1 [2.0]		1 [2.0]		
Mineralization		1 [1.0]	2 [1.5]		
Meninges, Hemorrhage					1 [2.0]
Ventricle, Dilatation		3 [2.3]	4 [2.3]	2 [2.0]	6 [2.3]
Peripheral Nerve, Sciatic	(48)	(47)	(48)	(48)	(48)
Axon, Degeneration	28 [1.0]	28 [1.0]	26 [1.0]	22 [1.1]	31 [1.0]
Spinal Cord, Cervical	(48)	(47)	(48)	(46)	(47)
Cyst			1 [1.0]		
Gliosis	1 [3.0]				
Hemorrhage		1 [1.0]	1 [1.0]		2 [3.0]
Mineralization	1 [1.0]				
Axon, Degeneration	27 [1.0]	28 [1.0]	23 [1.0]	19 [1.0]	25 [1.0]
Spinal Cord, Lumbar	(48)	(47)	(48)	(46)	(47)
Gliosis					1 [2.0]
Mineralization	2 [1.5]				
Axon, Degeneration	5 [1.0]	2 [1.0]	4 [1.0]	7 [1.0]	5 [1.0]
Nerve, Degeneration	26 [1.4]	32 [1.3]	29 [1.2]	26 [1.3]	36 [1.2]
Nerve, Gliosis	1 [1.0]			2 [1.0]	2 [1.0]
Spinal Cord, Thoracic	(48)	(47)	(48)	(46)	(47)
Hemorrhage		1 [2.0]			
Mineralization	1 [2.0]				
Axon, Degeneration	27 [1.0]	30 [1.0]	25 [1.0]	22 [1.0]	23 [1.0]
Nerve, Degeneration	5 [1.2]	4 [1.0]	3 [1.0]	8 [1.0]	5 [1.0]

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Test Type: CHRONIC

Glycidamide

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CAS Number: 5694-00-8

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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RESPIRATORY SYSTEM

Lung	(47)	(47)	(48)	(47)	(48)
Congestion					1 [4.0]
Foreign Body	1				
Hemorrhage	2 [3.0]	1 [4.0]			2 [1.5]
Infiltration Cellular, Histiocyte	15 [2.1]	5 [1.8]	8 [2.1]	4 [2.3]	12 [1.3]
Infiltration Cellular, Lymphocyte	1 [2.0]				
Inflammation, Suppurative			1 [3.0]		
Inflammation, Granulomatous	1 [4.0]	1 [3.0]			
Inflammation, Chronic		1 [1.0]			
Mineralization			1 [2.0]		
Pigmentation	2 [2.5]		3 [2.3]	2 [2.0]	2 [2.0]
Alveolar Epithelium, Hyperplasia	5 [3.2]	1 [2.0]	1 [4.0]	1 [2.0]	1 [1.0]
Bronchus, Inflammation, Suppurative		1 [4.0]			
Endothelium, Hyperplasia	1 [4.0]				
Nose	(48)	(45)	(47)	(45)	(48)
Inflammation, Suppurative	2 [2.5]	4 [2.3]	1 [2.0]	5 [2.2]	3 [2.0]
Inflammation, Chronic Active	1 [2.0]			2 [2.0]	1 [2.0]
Goblet Cell, Hyperplasia	2 [3.0]	1 [2.0]		1 [3.0]	
Nasopharyngeal Duct, Hyperkeratosis		1 [4.0]			
Nasopharyngeal Duct, Inflammation, Suppurative		1 [4.0]			
Trachea	(47)	(47)	(48)	(43)	(48)

SPECIAL SENSES SYSTEM

Ear	(0)	(1)	(1)	(0)	(0)
Eye	(45)	(44)	(43)	(38)	(45)
Cataract		1 [4.0]		1 [4.0]	1 [4.0]
Phthisis Bulbi				1 [4.0]	1 [4.0]
Bilateral, Cataract					1 [3.0]
Bilateral, Retina, Degeneration	5 [2.2]	7 [2.1]	5 [2.0]	3 [1.3]	8 [2.1]
Cornea, Inflammation, Suppurative		1 [4.0]			

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Cornea, Necrosis		1 [4.0]			
Cornea, Ulcer		1 [4.0]			
Retina, Degeneration	4 [1.5]	2 [2.0]	2 [1.5]	5 [2.8]	4 [2.8]
Sclera, Metaplasia, Osseous			2 [2.0]	4 [2.3]	2 [2.0]
Harderian Gland	(48)	(46)	(48)	(47)	(47)
Infiltration Cellular, Lymphocyte				3 [1.3]	1 [1.0]
Inflammation, Chronic					1 [4.0]
Inflammation, Chronic Active		1 [4.0]	1 [2.0]		
Necrosis	1 [3.0]				
Acinus, Degeneration		1 [4.0]	1 [2.0]		
Epithelium, Hyperplasia	1 [3.0]				1 [4.0]
Zymbal's Gland	(3)	(2)	(3)	(0)	(0)
Inflammation, Suppurative		1 [4.0]			

URINARY SYSTEM

Kidney	(47)	(47)	(47)	(44)	(46)
Cyst	1 [4.0]	1 [3.0]			1 [4.0]
Hyaline Droplet	1 [4.0]	3 [3.3]			
Hydronephrosis	2 [1.5]			1 [1.0]	1 [1.0]
Necrosis					1 [3.0]
Nephropathy	44 [2.7]	45 [2.8]	46 [3.1]	40 [3.4]	46 [3.5]
Pigmentation	2 [3.0]	3 [2.7]	1 [2.0]		
Transitional Epithelium, Hyperplasia		2 [2.5]	1 [3.0]		1 [2.0]
Urethra	(1)	(0)	(0)	(0)	(0)
Urinary Bladder	(47)	(47)	(48)	(43)	(48)
Hemorrhage		1 [3.0]			
Inflammation, Chronic					1 [1.0]
Lumen, Dilatation	5 [3.0]	5 [3.8]	2 [3.0]	5 [3.4]	5 [3.4]
Transitional Epithelium, Hyperplasia	2 [2.0]	1 [2.0]	1 [2.0]		

*** END OF MALE ***

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Test Type: CHRONIC

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CAS Number: 5694-00-8

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	40	20	11	15	7
Natural Death	3	3	4		2
Survivors					
Moribund Sacrifice	3	8	5	6	3
Natural Death			1	1	1
Terminal Sacrifice	2	17	27	26	35
Animals Examined Microscopically	48	48	48	48	48

ALIMENTARY SYSTEM

Esophagus	(48)	(48)	(48)	(48)	(48)
Lumen, Dilatation		1 [3.0]			
Intestine Large, Cecum	(45)	(45)	(44)	(48)	(46)
Ulcer					1 [4.0]
Lumen, Dilatation	1 [2.0]			1 [3.0]	
Intestine Large, Colon	(45)	(45)	(44)	(48)	(46)
Goblet Cell, Hyperplasia					1 [3.0]
Intestine Large, Rectum	(45)	(45)	(45)	(48)	(46)
Intestine Small, Duodenum	(45)	(45)	(45)	(48)	(46)
Intestine Small, Ileum	(45)	(45)	(44)	(48)	(46)
Infiltration Cellular, Lymphocyte					1 [2.0]
Pigmentation					1 [2.0]
Intestine Small, Jejunum	(44)	(44)	(45)	(48)	(46)
Infiltration Cellular, Lymphocyte	1 [3.0]				
Liver	(48)	(48)	(48)	(48)	(48)
Angiectasis	1 [2.0]		1 [4.0]		
Basophilic Focus	4	2	2	2	
Basophilic Focus, Multiple	32	35	36	38	41
Clear Cell Focus		1			2
Congestion				1 [4.0]	1 [3.0]
Deformity	7	5	4	4	7
Degeneration, Cystic		2 [2.0]	3 [2.0]	2 [2.0]	3 [1.7]

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Eosinophilic Focus	4	4	5	8	5
Eosinophilic Focus, Multiple		4		3	2
Granuloma		1 [2.0]		3 [3.7]	3 [3.0]
Hematopoietic Cell Proliferation	2 [1.0]	1 [1.0]	1 [1.0]		1 [1.0]
Hemorrhage	1 [2.0]				
Hepatodiaphragmatic Nodule	1	2			2
Hypertrophy			1 [4.0]		
Infiltration Cellular, Lymphocyte		2 [2.0]		1 [2.0]	
Inflammation, Chronic Active	8 [1.6]	13 [1.8]	18 [2.1]	14 [1.6]	19 [2.0]
Mitotic Alteration				1 [3.0]	
Mixed Cell Focus	2	3	6	7	10
Mixed Cell Focus, Multiple	3	5	6	8	8
Necrosis	3 [2.0]		1 [4.0]	8 [3.0]	2 [2.5]
Pigmentation	1 [2.0]		1 [2.0]	4 [3.0]	2 [3.0]
Thrombosis	1 [2.0]	2 [3.0]			
Vacuolization Cytoplasmic	7 [2.9]	12 [2.8]	18 [3.1]	11 [3.2]	15 [3.1]
Bile Duct, Hyperplasia	15 [2.3]	15 [3.1]	25 [2.6]	19 [2.4]	16 [2.7]
Hepatocyte, Degeneration	4 [3.0]	3 [4.0]	3 [4.0]	6 [3.8]	4 [4.0]
Hepatocyte, Hyperplasia	1 [4.0]	1 [4.0]	1 [4.0]	1 [4.0]	
Mesentery	(5)	(9)	(1)	(4)	(4)
Cyst		1 [3.0]			
Infiltration Cellular, Lymphocyte		1 [2.0]			
Fat, Necrosis	5 [3.2]	7 [3.4]	1 [4.0]	4 [3.5]	4 [4.0]
Oral Mucosa	(9)	(4)	(5)	(2)	(1)
Epithelium, Hyperplasia	3 [3.7]	3 [2.7]	3 [2.0]	1 [4.0]	
Pancreas	(48)	(48)	(48)	(48)	(48)
Cyst	1 [1.0]				
Necrosis		2 [4.0]			
Acinus, Degeneration	13 [2.1]	19 [1.7]	17 [2.1]	18 [1.7]	21 [2.3]
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Infiltration Cellular, Lymphocyte					1 [1.0]
Stomach, Forestomach	(46)	(47)	(48)	(48)	(48)
Edema	1 [4.0]				
Fibrosis					1 [4.0]
Inflammation, Chronic Active	2 [3.0]	1 [3.0]	1 [4.0]	3 [3.0]	1 [4.0]
Necrosis	1 [4.0]		1 [4.0]		

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Ulcer		2 [4.0]	1 [4.0]	2 [3.0]	
Epithelium, Hyperplasia	6 [2.0]	2 [2.0]	2 [2.5]	3 [2.3]	3 [1.7]
Stomach, Glandular	(46)	(46)	(45)	(48)	(47)
Necrosis	1 [3.0]			1 [3.0]	1 [4.0]
Pigmentation					1 [4.0]
Epithelium, Degeneration	1 [3.0]				
Tongue	(4)	(3)	(1)	(1)	(0)
Inflammation, Suppurative		1 [4.0]			
Keratin Cyst		1 [4.0]			
Epithelium, Hyperplasia	1 [3.0]	1 [4.0]			
CARDIOVASCULAR SYSTEM					
Blood Vessel	(48)	(48)	(48)	(48)	(48)
Heart	(48)	(48)	(48)	(48)	(48)
Cardiomyopathy	31 [1.4]	33 [1.6]	38 [1.9]	39 [1.8]	40 [1.9]
Thrombosis	1 [4.0]	1 [4.0]	2 [3.0]	3 [3.7]	
Endocardium, Hyperplasia				1 [2.0]	
Ventricle, Dilatation	1 [3.0]			1 [4.0]	
ENDOCRINE SYSTEM					
Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Accessory Adrenal Cortical Nodule	1	3			
Angiectasis		2 [3.0]	2 [3.5]	3 [3.0]	2 [3.0]
Congestion					1 [4.0]
Cyst			1 [2.0]		
Degeneration, Cystic	1 [3.0]	1 [2.0]	1 [2.0]	1 [3.0]	3 [3.0]
Hemorrhage					1 [3.0]
Hyperplasia	2 [1.5]	2 [2.0]		1 [2.0]	1 [2.0]
Hypertrophy			4 [2.0]		4 [1.8]
Pigmentation			1 [2.0]		
Vacuolization Cytoplasmic	22 [2.4]	17 [2.4]	12 [2.3]	13 [2.3]	12 [2.2]
Adrenal Medulla	(48)	(47)	(47)	(48)	(47)
Hyperplasia		2 [1.5]	4 [1.5]	1 [2.0]	3 [2.0]

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Necrosis	1 [2.0]				
Islets, Pancreatic	(47)	(48)	(48)	(48)	(48)
Hyperplasia		2 [1.5]		1 [1.0]	
Parathyroid Gland	(46)	(47)	(48)	(45)	(48)
Hyperplasia	3 [1.7]		2 [2.0]		2 [2.0]
Pituitary Gland	(48)	(46)	(47)	(48)	(47)
Pars Distalis, Angiectasis	1 [1.0]				
Pars Distalis, Cyst	5 [2.8]	1 [3.0]	1 [4.0]	3 [3.0]	3 [3.0]
Pars Distalis, Hyperplasia	20 [2.7]	14 [2.7]	12 [3.3]	7 [2.9]	11 [2.6]
Pars Intermedia, Cyst		1 [2.0]			
Pars Intermedia, Hyperplasia	1 [2.0]	1 [1.0]			
Pars Intermedia, Rathke's Cleft, Degeneration		1 [3.0]			
Thyroid Gland	(47)	(46)	(46)	(48)	(48)
Cyst		1 [3.0]			
Infiltration Cellular, Polymorphonuclear					1 [2.0]
C-cell, Hyperplasia	19 [1.3]	16 [1.3]	24 [1.3]	27 [1.4]	31 [1.5]
Follicular Cell, Hyperplasia	1 [2.0]	1 [1.0]	1 [1.0]	1 [2.0]	1 [2.0]
GENERAL BODY SYSTEM					
Tissue NOS	(0)	(0)	(0)	(1)	(0)
GENITAL SYSTEM					
Clitoral Gland	(47)	(48)	(48)	(48)	(48)
Fibrosis		1 [4.0]			
Hyperkeratosis	1 [4.0]				
Infiltration Cellular, Lymphocyte	1 [2.0]	1 [2.0]	1 [1.0]		1 [2.0]
Inflammation, Suppurative	13 [3.2]	20 [3.1]	17 [2.9]	13 [3.2]	16 [3.1]
Inflammation, Chronic				1 [3.0]	
Inflammation, Chronic Active	4 [1.5]		8 [3.1]	5 [3.0]	5 [2.2]
Necrosis				2 [4.0]	
Acinus, Degeneration	10 [2.7]	16 [2.8]	15 [3.0]	21 [3.0]	16 [2.7]
Duct, Ectasia	19 [3.5]	17 [3.5]	25 [3.4]	21 [3.1]	25 [3.4]
Epithelium, Hyperplasia	4 [3.3]	1 [4.0]	2 [3.5]	2 [3.0]	4 [3.5]

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Ovary	(48)	(48)	(48)	(48)	(48)
Atrophy	47 [2.7]	46 [2.6]	44 [2.5]	46 [2.5]	44 [2.5]
Cyst	1 [4.0]	2 [3.5]	2 [3.0]	2 [2.5]	3 [3.7]
Bilateral, Cyst		1 [2.0]			
Uterus	(48)	(48)	(48)	(48)	(48)
Angiectasis			1 [4.0]		
Cyst	4 [3.0]	5 [3.2]	5 [3.2]	4 [2.3]	2 [2.0]
Decidual Reaction	1 [4.0]				
Hemorrhage	1 [4.0]		1 [4.0]		1 [4.0]
Cervix, Fibrosis	1 [3.0]	3 [4.0]		1 [3.0]	
Endometrium, Hyperplasia, Cystic	23 [1.8]	14 [2.4]	14 [2.2]	17 [1.5]	11 [1.6]
Lumen, Dilatation	3 [3.0]	3 [3.7]	6 [2.8]	3 [2.7]	6 [3.8]
Vagina	(1)	(5)	(4)	(3)	(3)
Fibrosis		1 [3.0]			
Inflammation, Suppurative				1 [3.0]	
Prolapse	1		1		
Lumen, Dilatation		4 [3.5]	3 [4.0]	3 [3.7]	3 [3.3]
Mucocyte, Hyperplasia					2 [4.0]

HEMATOPOIETIC SYSTEM

Bone Marrow	(47)	(47)	(46)	(48)	(48)
Atrophy	1 [4.0]	1 [4.0]			
Hyperplasia	14 [2.4]	8 [2.1]	7 [2.3]	6 [2.3]	2 [2.0]
Lymph Node	(18)	(12)	(15)	(9)	(5)
Lumbar, Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]	1 [2.0]	1 [3.0]	
Lumbar, Infiltration Cellular, Plasma Cell	1 [3.0]	1 [3.0]	1 [2.0]		
Lumbar, Sinus, Dilatation	2 [3.0]	1 [3.0]			
Mediastinal, Fibrosis				1 [4.0]	
Mediastinal, Hemorrhage			1 [3.0]	1 [3.0]	
Mediastinal, Hyperplasia, Lymphoid	1 [1.0]		1 [2.0]		
Mediastinal, Pigmentation			1 [2.0]	1 [3.0]	
Mediastinal, Sinus, Dilatation				1 [2.0]	
Pancreatic, Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]			1 [3.0]
Pancreatic, Infiltration Cellular, Histiocyte		1 [4.0]	1 [3.0]		

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Pancreatic, Infiltration Cellular, Plasma Cell	1 [3.0]				
Pancreatic, Sinus, Dilatation			2 [2.0]		
Renal, Hemorrhage					1 [2.0]
Renal, Hyperplasia, Lymphoid	2 [2.0]				
Renal, Infiltration Cellular, Histiocyte	1 [2.0]	1 [3.0]	1 [3.0]		
Renal, Infiltration Cellular, Plasma Cell	1 [2.0]				
Renal, Sinus, Dilatation			2 [2.5]		1 [2.0]
Sinus, Thoracic, Dilatation		1 [2.0]			
Thoracic, Hemorrhage		1 [2.0]			
Thoracic, Infiltration Cellular, Histiocyte		1 [3.0]			
Lymph Node, Mandibular	(47)	(47)	(47)	(48)	(48)
Hemorrhage	2 [2.0]		1 [3.0]	1 [2.0]	
Hyperplasia, Lymphoid	9 [1.9]	4 [2.0]	7 [2.6]	4 [2.0]	6 [1.8]
Infiltration Cellular, Plasma Cell	16 [2.4]	20 [2.6]	18 [2.7]	16 [2.5]	22 [2.5]
Sinus, Dilatation	6 [2.8]	5 [2.6]	3 [2.0]	5 [2.8]	3 [3.0]
Lymph Node, Mesenteric	(48)	(48)	(47)	(48)	(47)
Erythrophagocytosis				1 [3.0]	
Hemorrhage	2 [2.0]	4 [2.5]		2 [2.0]	1 [3.0]
Hyperplasia, Lymphoid	10 [1.8]	5 [1.4]	6 [1.8]	6 [1.8]	10 [2.0]
Infiltration Cellular, Histiocyte	1 [3.0]				
Infiltration Cellular, Mast Cell		1 [3.0]	1 [2.0]		
Infiltration Cellular, Plasma Cell	6 [2.0]	4 [2.5]	6 [2.3]	4 [2.3]	2 [2.0]
Sinus, Dilatation	1 [2.0]			2 [2.0]	2 [2.5]
Spleen	(48)	(48)	(48)	(48)	(48)
Accessory Spleen		1		1	
Congestion			1 [4.0]		
Depletion Lymphoid	1 [3.0]				
Fibrosis	5 [2.8]	5 [2.4]	3 [3.0]	3 [2.0]	1 [2.0]
Hematopoietic Cell Proliferation	11 [3.5]	16 [2.8]	9 [2.8]	15 [2.6]	14 [2.6]
Hemorrhage		2 [4.0]	1 [4.0]		1 [4.0]
Hyperplasia, Lymphoid		2 [3.0]		3 [2.3]	1 [4.0]
Hyperplasia, Stromal			1 [4.0]		
Necrosis	2 [4.0]	1 [4.0]	1 [4.0]		1 [4.0]
Pigmentation	14 [2.5]	21 [2.5]	20 [2.7]	34 [2.5]	36 [2.6]
Thymus	(44)	(45)	(45)	(47)	(45)
Atrophy	40 [3.3]	40 [3.9]	41 [3.8]	44 [3.7]	43 [3.7]

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

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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Cyst	1 [3.0]				
Cyst Multilocular			1 [4.0]		

INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(48)	(48)	(48)	(48)
Abscess				1 [4.0]	
Galactocele	3 [4.0]	9 [4.0]	12 [4.0]	8 [4.0]	7 [3.7]
Inflammation, Chronic Active				1 [4.0]	
Lactation	2 [2.5]	2 [3.0]	3 [2.0]	10 [2.2]	11 [2.2]
Alveolus, Hyperplasia	1 [3.0]	1 [2.0]	2 [2.0]	6 [2.2]	10 [2.6]
Skin	(48)	(48)	(48)	(48)	(48)
Abscess				1 [4.0]	
Cyst Epithelial Inclusion	2		2		1
Hemorrhage		1 [2.0]			
Infiltration Cellular, Plasma Cell				1 [2.0]	
Inflammation, Suppurative	2 [3.0]	3 [2.0]		3 [2.7]	3 [2.3]
Inflammation, Chronic Active		2 [2.0]		1 [3.0]	
Ulcer	1 [3.0]	4 [2.8]	1 [2.0]	2 [2.5]	3 [2.3]
Epithelium, Hyperplasia	1 [3.0]	2 [2.0]		2 [2.0]	3 [2.0]

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)	(1)	(1)	(0)
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Fibrous Osteodystrophy				3 [3.7]	
Osteopetrosis		3 [4.0]			
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)

NERVOUS SYSTEM

Brain, Brain Stem	(48)	(48)	(47)	(48)	(48)
Compression	11 [2.3]	6 [2.5]	12 [2.8]	10 [2.9]	10 [2.3]
Hemorrhage			3 [2.3]	1 [2.0]	2 [2.0]

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Brain, Cerebellum	(48)	(48)	(47)	(48)	(48)
Gliosis	1 [2.0]	2 [1.5]	1 [1.0]		
Hemorrhage	1 [1.0]	1 [1.0]	1 [1.0]	1 [2.0]	1 [3.0]
Ventricle, Dilatation					1 [2.0]
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Cyst		1 [4.0]			
Gliosis	3 [2.7]	2 [2.5]	3 [3.0]		
Hemorrhage	1 [4.0]	1 [4.0]	3 [1.3]	1 [2.0]	1 [1.0]
Necrosis	1 [4.0]				
Ventricle, Dilatation			2 [2.5]	2 [1.5]	4 [1.8]
Ventricle, Hemorrhage			1 [4.0]		
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Axon, Degeneration	20 [1.0]	32 [1.0]	32 [1.0]	24 [1.0]	27 [1.1]
Spinal Cord, Cervical	(48)	(48)	(48)	(48)	(48)
Gliosis		1 [2.0]			
Hemorrhage					1 [1.0]
Inflammation, Chronic Active					1 [1.0]
Axon, Degeneration	14 [1.0]	14 [1.0]	25 [1.0]	19 [1.0]	32 [1.0]
Nerve, Degeneration		1 [1.0]	3 [1.0]	3 [1.0]	2 [1.0]
Spinal Cord, Lumbar	(48)	(48)	(47)	(48)	(48)
Gliosis	1 [2.0]		2 [1.5]		
Axon, Degeneration	9 [1.0]	6 [1.0]	5 [1.0]	6 [1.0]	5 [1.0]
Meninges, Hyperplasia		1 [1.0]			
Meninges, Infiltration Cellular, Histiocyte			1 [2.0]		
Nerve, Degeneration	23 [1.2]	30 [1.2]	35 [1.3]	35 [1.3]	35 [1.1]
Nerve, Gliosis					1 [1.0]
Nerve, Hyperplasia				1 [2.0]	
Neuron, Degeneration	1 [2.0]				
Spinal Cord, Thoracic	(48)	(48)	(47)	(48)	(48)
Hemorrhage			1 [1.0]		
Mineralization				1 [2.0]	
Axon, Degeneration	18 [1.0]	17 [1.0]	18 [1.0]	26 [1.0]	29 [1.0]
Meninges, Hyperplasia		1 [2.0]	1 [1.0]		
Meninges, Infiltration Cellular, Histiocyte		1 [2.0]			
Nerve, Degeneration	2 [1.0]	8 [1.0]	8 [1.1]	7 [1.0]	8 [1.0]

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RESPIRATORY SYSTEM

Lung	(48)	(48)	(48)	(48)	(48)
Congestion	2 [1.5]				
Fibrosis				1 [4.0]	
Hemorrhage					1 [3.0]
Infiltration Cellular, Histiocyte	9 [2.0]	20 [1.6]	24 [2.0]	25 [1.8]	24 [1.7]
Inflammation, Chronic Active			1 [3.0]		
Necrosis	1 [4.0]				
Pigmentation				1 [2.0]	
Polyarteritis	1 [4.0]				
Alveolar Epithelium, Hyperplasia	4 [2.8]	1 [2.0]	3 [3.3]	1 [2.0]	3 [3.3]
Nose	(47)	(48)	(48)	(48)	(48)
Foreign Body		1			
Hyaline Droplet	2 [2.5]	5 [2.4]	2 [2.5]	6 [2.0]	5 [2.2]
Inflammation, Suppurative	1 [2.0]	4 [2.3]	2 [3.0]	1 [2.0]	1 [2.0]
Inflammation, Chronic Active	1 [2.0]	1 [2.0]			2 [2.5]
Goblet Cell, Hyperplasia	2 [3.0]	3 [2.7]	2 [2.5]	1 [2.0]	1 [4.0]
Trachea	(48)	(47)	(47)	(48)	(48)
Inflammation, Suppurative					1 [4.0]
Necrosis					1 [4.0]
Ulcer					1 [4.0]

SPECIAL SENSES SYSTEM

Eye	(45)	(45)	(45)	(47)	(46)
Cataract	2 [3.0]	1 [4.0]			
Inflammation, Suppurative					1 [2.0]
Bilateral, Cataract			1 [4.0]		
Bilateral, Retina, Degeneration	2 [1.5]	2 [2.0]	3 [2.3]	4 [2.8]	5 [2.2]
Retina, Degeneration	4 [3.3]	6 [1.8]	6 [2.5]	7 [2.4]	7 [2.4]
Harderian Gland	(47)	(47)	(46)	(48)	(48)
Infiltration Cellular, Lymphocyte	8 [1.1]	2 [1.5]	1 [1.0]	5 [1.0]	8 [1.3]
Inflammation, Chronic					1 [4.0]

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Inflammation, Chronic Active		1 [2.0]			
Pigmentation			1 [2.0]		
Acinus, Degeneration			1 [3.0]		
Epithelium, Hyperplasia		1 [3.0]			
Zymbal's Gland	(2)	(0)	(0)	(0)	(1)
URINARY SYSTEM					
Kidney	(48)	(47)	(48)	(48)	(48)
Cyst		1 [4.0]			
Hyaline Droplet	2 [3.5]	1 [4.0]	2 [3.5]	2 [3.0]	1 [3.0]
Infarct		1 [4.0]			
Mineralization	30 [1.4]	36 [1.3]	29 [1.1]	33 [1.1]	34 [1.1]
Nephropathy	25 [1.7]	32 [1.9]	38 [2.0]	39 [2.2]	43 [2.3]
Pigmentation	3 [2.0]	1 [3.0]			
Urinary Bladder	(47)	(47)	(48)	(48)	(48)
Infiltration Cellular, Histiocyte	1 [4.0]				
Lumen, Dilatation	1 [2.0]		2 [3.0]		

*** END OF REPORT ***

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