

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
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>
<b>Early Deaths</b>					
<b>Moribund Sacrifice</b>	<b>36</b>	<b>26</b>	<b>24</b>	<b>13</b>	<b>16</b>
<b>Natural Death</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>10</b>	<b>4</b>
<b>Survivors</b>					
<b>Moribund Sacrifice</b>	<b>7</b>	<b>10</b>	<b>4</b>	<b>5</b>	<b>7</b>
<b>Natural Death</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	
<b>Terminal Sacrifice</b>	<b>2</b>	<b>7</b>	<b>15</b>	<b>18</b>	<b>21</b>
<b>Other</b>		<b>1</b>			
<b>Animals Examined Microscopically</b>	<b>48</b>	<b>47</b>	<b>48</b>	<b>48</b>	<b>48</b>

## 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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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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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]		
<b>ENDOCRINE SYSTEM</b>					
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]	
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(1)	(1)	(1)	(0)	(2)
<b>GENITAL SYSTEM</b>					
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

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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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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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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
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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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**

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

## 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]			
<b>CARDIOVASCULAR SYSTEM</b>					
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]	
<b>ENDOCRINE SYSTEM</b>					
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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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]
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(0)	(0)	(0)	(1)	(0)
<b>GENITAL SYSTEM</b>					
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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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
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]

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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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