

Experiment Number: 20601 - 03

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

Date Report Requested: 10/15/2014

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

F1_Core_RE

NTP Study Number:

C20601

Lock Date:

06/13/2011

Cage Range:

ALL

Date Range:

ALL

Reasons For Removal:

25021 TSAC

25020 NATD

25019 MSAC

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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Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
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Disposition Summary

Animals Initially In Study	60	60	60	60
Early Deaths				
Moribund Sacrifice	15	19	22	29
Natural Death	5	1		3
Survivors				
Terminal Sacrifice	30	30	28	18
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(50)	(50)	(49)
Necrosis				1 [3.0]
Intestine Large, Colon	(50)	(50)	(50)	(50)
Edema	1 [3.0]			
Inflammation, Chronic Active	1 [2.0]			
Intestine Large, Rectum	(44)	(49)	(48)	(48)
Inflammation, Chronic Active			1 [1.0]	1 [1.0]
Intestine Small, Duodenum	(47)	(50)	(50)	(49)
Fibrosis			1 [1.0]	
Inflammation, Chronic Active		1 [2.0]		
Intestine Small, Ileum	(48)	(50)	(50)	(49)
Hemorrhage				1 [2.0]
Inflammation, Suppurative				1 [3.0]
Inflammation, Chronic Active			1 [1.0]	
Necrosis			1 [3.0]	
Epithelium, Atrophy				1 [3.0]
Intestine Small, Jejunum	(46)	(49)	(50)	(48)
Fibrosis	1 [4.0]			
Inflammation, Chronic Active	1 [3.0]			
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 [2.0]	3 [1.3]	4 [1.8]	1 [1.0]
Basophilic Focus	3	5	5	1
Clear Cell Focus	18	14	15	8

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Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Congestion	3 [1.7]	8 [1.5]	6 [1.5]	6 [1.5]
Cyst	2 [2.5]	4 [2.0]	2 [2.5]	1 [2.0]
Eosinophilic Focus		1	1	2
Fatty Change	4 [1.8]	8 [1.6]	4 [1.5]	3 [1.3]
Fibrosis		1 [1.0]		1 [1.0]
Hematopoietic Cell Proliferation				1 [1.0]
Hepatodiaphragmatic Nodule		2	3	1
Inflammation, Chronic Active	2 [1.0]		1 [1.0]	1 [3.0]
Mineralization		1 [1.0]		
Mixed Cell Focus		1		
Necrosis		1 [3.0]	1 [1.0]	2 [1.5]
Bile Duct, Cyst, Multiple				1 [4.0]
Bile Duct, Dilatation			1 [1.0]	
Bile Duct, Hyperplasia				3 [2.0]
Sinusoid, Dilatation	1 [1.0]			
Vein, Dilatation		1 [2.0]		
Mesentery	(50)	(50)	(50)	(50)
Arteriole, Inflammation, Chronic Active	1 [1.0]			
Artery, Inflammation, Chronic Active				6 [2.2]
Artery, Necrosis				3 [1.7]
Fat, Necrosis	1 [2.0]	4 [1.8]	3 [2.0]	2 [2.0]
Pancreas	(50)	(50)	(50)	(50)
Atrophy	15 [1.5]	12 [1.1]	14 [1.2]	20 [1.7]
Basophilic Focus	3	4		
Inflammation, Chronic Active	1 [2.0]		2 [1.5]	2 [1.5]
Arteriole, Inflammation, Chronic Active			1 [1.0]	1 [1.0]
Artery, Hemorrhage			1 [2.0]	
Artery, Inflammation, Chronic Active	1 [2.0]		2 [2.5]	8 [3.1]
Artery, Necrosis			1 [2.0]	4 [2.0]
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy		2 [1.5]		2 [1.5]
Basophilic Focus		1		
Inflammation, Suppurative		1 [2.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Cyst, Squamous	1 [2.0]			
Edema				2 [3.5]

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Lab: BNW

Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hyperplasia, Squamous	2 [1.5]	7 [1.1]	4 [1.5]	7 [2.0]
Inflammation, Suppurative		1 [1.0]		
Inflammation, Chronic Active			1 [1.0]	
Ulcer	1 [2.0]			1 [3.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema				1 [3.0]
Erosion				1 [4.0]
Fibrosis		1 [3.0]		
Hemorrhage				1 [2.0]
Inflammation, Chronic Active	1 [1.0]		1 [1.0]	3 [2.0]
Metaplasia, Squamous			1 [1.0]	
Mineralization	1 [1.0]		1 [1.0]	1 [1.0]
Ulcer		1 [3.0]		
Arteriole, Mineralization		1 [1.0]		
Capillary, Hyperplasia				1 [2.0]
Tongue	(1)	(1)	(0)	(1)
Epithelium, Hyperplasia	1 [4.0]			1 [1.0]
Tooth	(2)	(1)	(1)	(1)
Inflammation, Suppurative		1 [1.0]		
Inflammation, Chronic Active			1 [3.0]	1 [3.0]
Malformation	2 [2.0]			

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(49)
Angiomatous Hyperplasia			1 [1.0]	
Mineralization	1 [1.0]		1 [1.0]	
Heart	(50)	(50)	(50)	(50)
Angiectasis				1 [2.0]
Cardiomyopathy	41 [1.2]	44 [1.5]	42 [1.4]	40 [1.4]
Hemorrhage			1 [2.0]	
Inflammation, Chronic Active				1 [3.0]
Thrombosis				2 [3.5]
Artery, Inflammation, Chronic Active				1 [2.0]
Valve, Fibrosis			1 [2.0]	

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Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Valve, Inflammation, Suppurative				1 [3.0]
Valve, Thrombosis				2 [3.0]
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule		1 [1.0]	1 [2.0]	
Angiectasis		2 [1.0]		3 [1.0]
Atrophy	1 [3.0]		2 [3.0]	
Degeneration, Cystic	3 [1.3]		1 [2.0]	3 [1.7]
Hematopoietic Cell Proliferation				1 [1.0]
Hemorrhage	1 [1.0]			
Hyperplasia	30 [2.0]	32 [2.2]	33 [2.2]	32 [1.9]
Vacuolization Cytoplasmic	1 [1.0]			
Adrenal Medulla	(49)	(50)	(49)	(50)
Degeneration, Fatty				1 [2.0]
Hyperplasia	1 [3.0]	2 [3.5]	4 [1.5]	8 [1.5]
Thrombosis				1 [1.0]
Islets, Pancreatic	(50)	(50)	(50)	(49)
Parathyroid Gland	(44)	(46)	(46)	(48)
Fibrosis			1 [2.0]	
Hyperplasia	4 [1.8]		1 [1.0]	1 [3.0]
Pituitary Gland	(50)	(50)	(50)	(50)
Angiectasis	1 [2.0]			
Cyst		1 [1.0]		
Hemorrhage	1 [3.0]			
Pars Distalis, Hyperplasia	11 [2.6]	11 [1.9]	14 [1.9]	15 [2.2]
Pars Intermedia, Angiectasis	1 [3.0]			
Pars Intermedia, Hyperplasia	1 [3.0]	4 [1.8]		1 [2.0]
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Hyperplasia	9 [1.4]	11 [1.5]	13 [2.8]	6 [2.3]
Follicle, Cyst	1 [2.0]	1 [2.0]		
Follicular Cell, Hyperplasia	1 [2.0]	2 [1.5]		2 [2.0]

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GENERAL BODY SYSTEM				
Tissue NOS	(0)	(1)	(0)	(1)
GENITAL SYSTEM				
Coagulating Gland	(0)	(0)	(0)	(1)
Inflammation, Chronic Active				1 [3.0]
Epididymis	(50)	(50)	(50)	(50)
Epithelium, Cytoplasmic Alteration	1 [2.0]			
Preputial Gland	(50)	(50)	(50)	(50)
Ectasia	1 [3.0]	1 [2.0]	4 [2.0]	
Fibrosis		1 [2.0]		
Inflammation, Chronic Active	7 [2.1]	5 [1.2]	4 [2.5]	4 [1.5]
Prostate	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 [4.0]	6 [1.5]	5 [1.6]	4 [1.5]
Inflammation, Chronic Active	8 [2.0]	3 [1.3]	5 [2.2]	3 [2.3]
Epithelium, Hyperplasia	9 [1.3]	18 [2.1]	21 [1.5]	13 [1.7]
Seminal Vesicle	(50)	(50)	(50)	(50)
Congestion				1 [4.0]
Hyperplasia		1 [1.0]		
Inflammation, Suppurative		1 [2.0]		
Inflammation, Chronic Active	2 [2.5]			1 [3.0]
Epithelium, Hyperplasia	1 [2.0]			
Testes	(50)	(50)	(50)	(50)
Cyst	1 [3.0]			
Edema	30 [1.3]	37 [1.5]	31 [1.5]	26 [1.4]
Fibrosis		1 [2.0]		
Hemorrhage			1 [1.0]	
Inflammation, Chronic Active		1 [2.0]	1 [2.0]	
Arteriole, Inflammation, Chronic Active	1 [2.0]			
Germinal Epithelium, Degeneration	3 [2.7]	6 [2.2]	6 [2.2]	4 [1.5]
Interstitial Cell, Hyperplasia	1 [2.0]			

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Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Depletion Cellular		1 [1.0]		
Fibrosis		1 [3.0]		
Hyperplasia		3 [1.0]	4 [1.0]	8 [1.0]
Lymph Node	(2)	(4)	(7)	(7)
Hyperplasia, Plasma Cell			1 [4.0]	
Axillary, Hyperplasia, Plasma Cell		1 [2.0]		
Axillary, Infiltration Cellular, Histiocyte				1 [1.0]
Iliac, Ectasia			2 [2.5]	
Iliac, Hyperplasia, Plasma Cell			1 [3.0]	1 [3.0]
Lumbar, Ectasia				1 [3.0]
Lumbar, Hyperplasia, Plasma Cell		2 [2.5]	2 [2.5]	3 [1.7]
Lumbar, Infiltration Cellular, Histiocyte				1 [1.0]
Lumbar, Renal, Hyperplasia, Plasma Cell	1 [2.0]			
Pancreatic, Congestion			1 [1.0]	
Renal, Ectasia	1 [2.0]			2 [3.0]
Renal, Infiltration Cellular, Histiocyte				1 [2.0]
Lymph Node, Bronchial	(41)	(40)	(48)	(47)
Ectasia			1 [2.0]	
Foreign Body		35	45	42
Hyperplasia, Lymphoid		21 [1.0]	29 [1.3]	26 [1.3]
Pigmentation	1 [2.0]	4 [1.3]	5 [1.2]	10 [1.3]
Lymph Node, Mandibular	(45)	(46)	(48)	(45)
Hyperplasia, Plasma Cell		1 [3.0]	2 [3.0]	
Lymph Node, Mediastinal	(42)	(45)	(49)	(49)
Congestion				1 [3.0]
Foreign Body		41	41	43
Hyperplasia				1 [1.0]
Hyperplasia, Lymphoid	1 [1.0]	24 [1.3]	30 [1.4]	26 [1.3]
Pigmentation	24 [1.4]	23 [1.2]	29 [1.3]	26 [1.4]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Angiomatous Hyperplasia		1 [2.0]		3 [1.7]
Ectasia				2 [3.5]
Fibrosis			1 [2.0]	1 [2.0]

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Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hemorrhage				1 [2.0]
Artery, Inflammation, Chronic Active				1 [1.0]
Spleen	(50)	(50)	(50)	(50)
Accessory Spleen	1			
Cyst		1 [2.0]		
Depletion Cellular	1 [2.0]		1 [2.0]	1 [3.0]
Depletion Cellular, Focal			1 [3.0]	
Fibrosis			1 [1.0]	
Hematopoietic Cell Proliferation	41 [1.7]	45 [2.0]	43 [1.9]	46 [2.2]
Hemorrhage		1 [1.0]		
Mineralization				1 [1.0]
Necrosis		1 [4.0]		
Thymus	(41)	(35)	(47)	(45)
Cyst			1 [1.0]	
Depletion Cellular	5 [2.0]	6 [2.2]	6 [1.3]	9 [2.0]
Hemorrhage	1 [2.0]			
Epithelial Cell, Hyperplasia			1 [3.0]	

INTEGUMENTARY SYSTEM

Mammary Gland	(6)	(9)	(7)	(8)
Galactocele		1 [3.0]	1 [2.0]	
Skin	(50)	(50)	(50)	(50)
Cyst, Squamous	2 [2.5]			
Dysplasia	1 [1.0]			
Foreign Body		1		
Inflammation, Chronic Active	22 [3.0]	30 [3.0]	28 [2.9]	32 [3.0]
Ulcer	17 [3.4]	23 [2.9]	23 [3.0]	28 [3.1]
Epidermis, Hyperplasia		1 [4.0]		
Hair Follicle, Hyperplasia				1 [3.0]
Subcutaneous Tissue, Hemorrhage	1 [1.0]			
Subcutaneous Tissue, Inflammation, Granulomatous	1 [3.0]		1 [4.0]	
Subcutaneous Tissue, Inflammation, Chronic Active			1 [2.0]	1 [2.0]

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MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Inflammation, Chronic Active			1 [2.0]	
Epiphysis, Femur, Cyst			1 [1.0]	
Femur, Hyperostosis		1 [1.0]		
Mandible, Cyst, Squamous			1 [4.0]	
Maxilla, Cyst, Squamous		1 [4.0]		
Maxilla, Inflammation, Chronic Active	3 [2.0]	4 [2.0]	2 [1.5]	1 [2.0]
Vertebra, Fibrosis		1 [1.0]		
Skeletal Muscle	(4)	(3)	(3)	(5)
Atrophy		1 [3.0]		
Cyst				1 [3.0]
Hemorrhage	1 [2.0]			
Inflammation, Chronic Active				1 [4.0]
Necrosis			1 [3.0]	

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	7 [3.0]	11 [2.7]	8 [2.8]	2 [3.0]
Hemorrhage	1 [2.0]			
Meninges, Hyperplasia			1 [2.0]	1 [1.0]
Peripheral Nerve	(3)	(3)	(2)	(0)
Degeneration		1 [2.0]	1 [1.0]	
Spinal Cord	(3)	(3)	(1)	(0)

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Foreign Body		50	50	50
Hyperplasia, Squamous				2 [2.0]
Inflammation, Chronic Active	2 [1.5]	5 [1.4]	2 [2.0]	4 [2.0]

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Metaplasia, Squamous		2 [1.0]		1 [1.0]
Mineralization			1 [1.0]	
Necrosis	1 [1.0]			1 [1.0]
Respiratory Epithelium, Hyperplasia	2 [2.0]	4 [1.5]	1 [1.0]	
Lung	(50)	(50)	(50)	(50)
Congestion		1 [1.0]		
Fibrosis	2 [1.0]	50 [1.4]	49 [1.6]	49 [1.7]
Foreign Body	1	50	50	50
Hemorrhage	2 [1.0]	2 [1.5]	1 [1.0]	3 [1.0]
Inflammation, Chronic Active	18 [1.0]	50 [2.5]	50 [2.7]	50 [2.8]
Metaplasia, Osseous	1 [1.0]	2 [1.0]	2 [1.0]	9 [1.1]
Proteinosis		47 [1.3]	50 [1.9]	50 [2.7]
Alveolar Epithelium, Hyperplasia	4 [1.3]	50 [1.8]	48 [2.1]	49 [2.2]
Alveolar Epithelium, Metaplasia, Squamous			1 [1.0]	
Alveolus, Inflammation, Suppurative		12 [1.2]	24 [1.4]	28 [1.7]
Artery, Inflammation, Chronic Active			1 [1.0]	1 [2.0]
Bronchiole, Epithelium, Hyperplasia	3 [1.0]	34 [1.0]	36 [1.1]	33 [1.5]
Bronchus, Hyperplasia				1 [3.0]
Bronchus, Inflammation, Chronic Active		1 [1.0]		
Bronchus, Metaplasia, Squamous		1 [1.0]		
Perivascular, Infiltration Cellular, Lymphocyte	3 [1.7]	25 [1.1]	19 [1.2]	9 [1.1]
Perivascular, Infiltration Cellular, Lymphoid				1 [1.0]
Mediastinum	(0)	(1)	(2)	(10)
Artery, Inflammation, Chronic Active		1 [3.0]	2 [2.5]	10 [2.3]
Artery, Necrosis			2 [3.0]	9 [1.8]
Nose	(50)	(49)	(50)	(50)
Foreign Body			17	40
Hyperplasia, Squamous	1 [2.0]			
Inflammation, Suppurative	4 [1.0]	4 [1.0]	6 [1.8]	7 [1.6]
Inflammation, Acute				1 [1.0]
Inflammation, Chronic Active			1 [2.0]	1 [1.0]
Mineralization	1 [1.0]			
Glands, Cyst		1 [1.0]		
Glands, Respiratory Epithelium, Cyst	1			2
Olfactory Epithelium, Accumulation, Hyaline Droplet	16 [1.4]	15 [1.8]	15 [1.5]	18 [1.8]

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Lab: BNW

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Olfactory Epithelium, Atrophy			1 [1.0]	
Olfactory Epithelium, Hyperplasia			1 [1.0]	
Olfactory Epithelium, Metaplasia, Respiratory		1 [1.0]		1 [1.0]
Respiratory Epithelium, Hyperplasia	6 [1.3]	15 [1.1]	13 [1.1]	25 [1.1]
Respiratory Epithelium, Metaplasia, Squamous			2 [1.0]	6 [1.7]
Respiratory Epithelium, Necrosis	1 [1.0]		3 [1.3]	1 [1.0]
Respiratory Epithelium, Regeneration				2 [1.0]
Turbinate, Hyperostosis			1 [1.0]	1 [1.0]
Trachea	(50)	(50)	(50)	(50)
Foreign Body		28	43	48
Inflammation, Suppurative		3 [1.3]	1 [1.0]	
Inflammation, Chronic Active				1 [1.0]
Metaplasia, Squamous	1 [1.0]	1 [1.0]	4 [1.0]	3 [1.3]
Mineralization			1 [2.0]	1 [1.0]
Necrosis				1 [1.0]
Epithelium, Hyperplasia		1 [2.0]		
Epithelium, Regeneration				1 [1.0]

SPECIAL SENSES SYSTEM

Ear	(0)	(0)	(1)	(0)
Eye	(49)	(49)	(50)	(49)
Ciliary Body, Inflammation, Acute			1 [1.0]	6 [1.2]
Cornea, Inflammation, Chronic Active				2 [2.5]
Iris, Infiltration Cellular, Histiocyte			1 [2.0]	
Lens, Degeneration	2 [3.0]	5 [1.4]	3 [2.3]	4 [1.8]
Retina, Atrophy	8 [2.9]	11 [2.7]	9 [2.7]	6 [2.7]
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia	2 [1.0]	1 [1.0]		3 [1.0]
Inflammation, Chronic Active			1 [2.0]	1 [2.0]
Lacrimal Gland	(1)	(0)	(1)	(0)
Atrophy			1 [2.0]	
Hypertrophy	1 [3.0]			

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)

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Accumulation, Hyaline Droplet			1 [3.0]	
Amyloid Deposition		1 [2.0]		
Cyst	1 [3.0]	2 [3.0]	3 [2.0]	1 [1.0]
Fibrosis				1 [2.0]
Infarct		1 [1.0]	2 [3.0]	1 [3.0]
Inflammation, Suppurative	1 [2.0]			1 [2.0]
Inflammation, Chronic Active	1 [3.0]			2 [3.5]
Metaplasia, Osseous				1 [2.0]
Nephropathy	41 [1.8]	41 [1.9]	40 [2.0]	38 [1.8]
Thrombosis		1 [3.0]		
Artery, Inflammation, Chronic Active			1 [1.0]	4 [1.3]
Artery, Necrosis			1 [2.0]	4 [1.3]
Papilla, Necrosis				2 [3.0]
Pelvis, Dilatation	2 [3.0]	2 [2.5]	1 [2.0]	3 [2.7]
Pelvis, Inflammation, Suppurative	2 [2.5]	3 [2.3]	5 [1.8]	2 [3.5]
Pelvis, Inflammation, Chronic Active	4 [2.0]		1 [2.0]	1 [3.0]
Pelvis, Mineralization	16 [1.1]	10 [1.5]	11 [1.2]	3 [1.0]
Renal Tubule, Accumulation, Hyaline Droplet		1 [4.0]	3 [2.0]	14 [1.3]
Renal Tubule, Hyperplasia	1 [1.0]			1 [1.0]
Renal Tubule, Mineralization	1 [1.0]			2 [1.5]
Vein, Thrombosis		1 [3.0]		
Ureter	(0)	(1)	(0)	(0)
Urinary Bladder	(50)	(50)	(50)	(50)
Calculus Gross Observation				1
Hemorrhage				1 [3.0]
Inflammation, Suppurative	1 [4.0]			
Necrosis	1 [3.0]			
Serosa, Inflammation, Chronic Active				1 [2.0]
Transitional Epithelium, Hyperplasia				1 [4.0]

*** 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)

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
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Disposition Summary

Animals Initially In Study	60	60	60	60
Early Deaths				
Moribund Sacrifice	11	12	20	27
Natural Death			2	3
Survivors				
Moribund Sacrifice			1	
Natural Death				1
Terminal Sacrifice	39	38	27	19
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(49)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Hemorrhage				1 [3.0]
Necrosis				1 [2.0]
Intestine Large, Rectum	(48)	(47)	(50)	(49)
Edema		1 [2.0]		
Inflammation, Chronic Active		1 [1.0]		
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Inflammation, Chronic Active				1 [3.0]
Intestine Small, Ileum	(50)	(50)	(49)	(50)
Inflammation, Suppurative			1 [2.0]	
Intestine Small, Jejunum	(50)	(50)	(49)	(49)
Liver	(50)	(50)	(50)	(50)
Angiectasis	3 [2.3]	2 [1.5]	1 [2.0]	2 [2.5]
Basophilic Focus	12	7	11	6
Clear Cell Focus	4	5	1	2
Congestion	2 [1.5]	4 [1.3]	1 [2.0]	1 [2.0]
Cyst	2 [2.0]	4 [2.0]	3 [2.7]	1 [2.0]
Degeneration			1 [2.0]	
Eosinophilic Focus	3	1	1	1
Fatty Change	6 [1.3]	1 [2.0]	1 [1.0]	

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Fibrosis			4 [1.3]	2 [1.5]
Hepatodiaphragmatic Nodule	2	2	4	4
Hyperplasia		1 [1.0]		
Infiltration Cellular, Histiocyte		1 [3.0]		
Infiltration Cellular, Lymphocyte			1 [2.0]	
Inflammation, Chronic Active			3 [1.7]	4 [1.8]
Mixed Cell Focus		1	1	2
Necrosis				2 [1.5]
Pigmentation, Hemosiderin		1 [2.0]		
Bile Duct, Hyperplasia	3 [1.3]	2 [1.5]		1 [2.0]
Bile Duct, Hypertrophy			1 [2.0]	
Bile Duct, Inflammation, Chronic Active	1 [2.0]			
Hepatocyte, Hypertrophy, Focal			1 [1.0]	
Serosa, Fibrosis		1 [2.0]		
Mesentery	(50)	(50)	(50)	(50)
Necrosis				1 [3.0]
Artery, Inflammation, Chronic Active				6 [2.5]
Artery, Necrosis				3 [1.7]
Fat, Necrosis	5 [1.8]	3 [1.7]	3 [2.0]	6 [1.8]
Pancreas	(50)	(50)	(50)	(50)
Atrophy	11 [1.5]	14 [1.4]	9 [1.7]	16 [1.3]
Basophilic Focus	2			1
Inflammation, Chronic Active		2 [2.0]	1 [2.0]	
Artery, Hemorrhage				2 [1.0]
Artery, Inflammation, Chronic Active			3 [2.0]	8 [2.5]
Artery, Necrosis				4 [2.0]
Artery, Thrombosis				1 [3.0]
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy		1 [3.0]		2 [1.5]
Duct, Hyperplasia				1 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Cyst, Squamous	1 [2.0]			
Fibrosis		1 [1.0]		
Hyperplasia, Squamous	4 [1.3]	5 [1.0]	4 [1.0]	6 [1.5]
Inflammation, Acute		1 [3.0]		
Inflammation, Chronic Active				1 [1.0]

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)

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Mineralization			1 [1.0]	1 [2.0]
Ulcer	2 [2.5]	1 [1.0]		
Stomach, Glandular	(50)	(50)	(50)	(50)
Hemorrhage			1 [2.0]	1 [2.0]
Inflammation, Chronic Active				1 [1.0]
Mineralization				1 [1.0]
Ulcer			1 [2.0]	
Tooth	(1)	(1)	(0)	(1)
Inflammation, Chronic Active	1 [2.0]			
Malformation		1 [2.0]		1 [1.0]

CARDIOVASCULAR SYSTEM

Blood Vessel	(49)	(50)	(50)	(49)
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	29 [1.1]	19 [1.0]	29 [1.1]	29 [1.2]
Inflammation, Suppurative			1 [3.0]	
Valve, Fibrosis				1 [3.0]
Valve, Inflammation, Chronic Active			1 [1.0]	

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	1 [1.0]			
Angiectasis				1 [2.0]
Degeneration				1 [2.0]
Degeneration, Cystic	37 [2.1]	44 [2.4]	39 [2.2]	31 [2.1]
Degeneration, Fatty				1 [4.0]
Fibrosis		1 [3.0]	1 [1.0]	
Hematopoietic Cell Proliferation	1 [1.0]		1 [1.0]	
Hyperplasia	27 [2.2]	23 [2.0]	30 [1.7]	23 [1.7]
Hypertrophy	2 [3.0]	2 [3.0]		1 [1.0]
Vacuolization Cytoplasmic	1 [4.0]			
Adrenal Medulla	(49)	(49)	(49)	(50)
Atrophy		1 [2.0]		

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hyperplasia			3 [1.3]	5 [2.0]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	1 [2.0]		1 [1.0]	
Parathyroid Gland	(39)	(41)	(43)	(46)
Pituitary Gland	(50)	(50)	(50)	(50)
Angiectasis				2 [1.5]
Necrosis			1 [1.0]	
Vacuolization Cytoplasmic		1 [2.0]		
Pars Distalis, Hyperplasia	22 [3.0]	16 [2.4]	17 [2.1]	21 [2.5]
Pars Intermedia, Hyperplasia	1 [3.0]	2 [2.0]	2 [1.5]	2 [2.5]
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Hyperplasia	21 [2.2]	16 [1.8]	15 [2.3]	8 [1.6]
Follicle, Cyst				1 [1.0]
Follicular Cell, Hyperplasia	3 [1.3]	3 [2.7]	1 [3.0]	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(47)	(49)
Cyst			4 [1.5]	
Fibrosis				1 [2.0]
Inflammation, Chronic Active	2 [3.0]	1 [3.0]	2 [3.0]	5 [1.8]
Ovary	(50)	(49)	(50)	(50)
Congestion			2 [2.5]	5 [3.4]
Cyst	11 [2.3]	10 [1.9]	14 [1.4]	15 [1.7]
Fibrosis			2 [1.5]	3 [2.7]
Hemorrhage		1 [3.0]		3 [3.0]
Inflammation, Chronic Active				1 [3.0]
Mineralization				1 [2.0]
Necrosis				1 [2.0]
Thrombosis			1 [1.0]	1 [4.0]
Granulosa Cell, Hyperplasia	1 [3.0]	1 [3.0]	2 [1.5]	

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

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Interstitial Cell, Hyperplasia	2 [1.0]	1 [2.0]	1 [2.0]	
Uterus	(50)	(50)	(50)	(50)
Cyst	1 [2.0]			
Dilatation	2 [3.0]	3 [3.0]	1 [2.0]	2 [3.0]
Hemorrhage				1 [2.0]
Inflammation, Suppurative	1 [4.0]		1 [1.0]	2 [2.0]
Inflammation, Chronic Active	1 [2.0]	1 [3.0]		
Necrosis	1 [3.0]			
Thrombosis			1 [3.0]	
Endometrial Glands, Hyperplasia	2 [1.5]		3 [1.0]	
Endometrial Glands, Metaplasia, Squamous		4 [1.0]	2 [1.0]	1 [1.0]
Endometrium, Cyst				1 [2.0]
Endometrium, Hyperplasia		1 [2.0]	2 [1.5]	
Endometrium, Hyperplasia, Cystic	9 [2.0]	17 [2.3]	6 [1.8]	16 [2.1]
Endometrium, Metaplasia, Squamous	1 [2.0]			
Vagina	(0)	(0)	(1)	(0)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hemorrhage			1 [1.0]	
Hyperplasia	8 [1.0]	5 [1.0]	11 [1.0]	20 [1.0]
Myelofibrosis				1 [2.0]
Lymph Node	(2)	(3)	(3)	(3)
Pigmentation	1 [2.0]	1 [3.0]		
Axillary, Ectasia			1 [2.0]	
Iliac, Congestion				1 [2.0]
Iliac, Hyperplasia, Plasma Cell			1 [2.0]	
Lumbar, Ectasia			1 [2.0]	
Lumbar, Foreign Body	1			
Lumbar, Hyperplasia		1 [1.0]		
Renal, Congestion			1 [3.0]	
Renal, Hemorrhage			1 [1.0]	
Thoracic, Foreign Body				1
Lymph Node, Bronchial	(35)	(36)	(28)	(41)

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

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Foreign Body		35	23	36
Hyperplasia, Lymphoid		21 [1.0]	9 [1.6]	11 [1.0]
Pigmentation	14 [1.5]	12 [1.5]	8 [1.4]	18 [1.3]
Lymph Node, Mandibular	(42)	(46)	(44)	(48)
Ectasia			1 [3.0]	
Foreign Body		1		5
Lymph Node, Mediastinal	(46)	(46)	(46)	(46)
Congestion				1 [2.0]
Fibrosis		1 [2.0]		
Foreign Body		27	32	33
Hyperplasia, Lymphoid		14 [1.1]	10 [1.2]	15 [1.1]
Pigmentation	39 [1.5]	42 [1.8]	41 [1.4]	41 [1.6]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Congestion		1 [3.0]	1 [3.0]	
Depletion Cellular	1 [2.0]			
Fibrosis		1 [1.0]	1 [3.0]	
Hematopoietic Cell Proliferation	44 [1.7]	43 [1.5]	46 [2.2]	48 [2.4]
Hemorrhage			1 [4.0]	1 [3.0]
Pigmentation			1 [1.0]	1 [3.0]
Artery, Inflammation, Chronic Active			1 [4.0]	
Artery, Necrosis			1 [3.0]	1 [3.0]
Lymphoid Follicle, Atrophy	1 [3.0]			
Thymus	(46)	(41)	(37)	(48)
Cyst		1 [3.0]	1 [1.0]	1 [4.0]
Depletion Cellular	3 [2.0]	1 [2.0]	2 [2.0]	3 [1.7]
Hemorrhage		4 [1.5]	2 [1.0]	
Hyperplasia		1 [3.0]		
Inflammation, Chronic Active				1 [3.0]
Vacuolization Cytoplasmic	1 [3.0]			

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Cyst				1 [2.0]

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

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Fibrosis			1 [3.0]	1 [3.0]
Galactocele	7 [2.3]	9 [2.1]	13 [2.0]	10 [2.1]
Granuloma, Lipomatous				2
Hyperplasia	6 [2.3]	3 [1.7]	8 [2.4]	3 [2.3]
Infiltration Cellular, Histiocyte	1 [2.0]			
Skin	(50)	(49)	(50)	(50)
Angiectasis	1 [3.0]			1 [2.0]
Cyst, Squamous		4 [2.5]		1 [3.0]
Fibrosis	1 [1.0]			
Hyperplasia	1 [2.0]			
Inflammation, Suppurative				1 [3.0]
Inflammation, Chronic Active	8 [3.1]	5 [2.6]	9 [2.7]	9 [3.1]
Ulcer	2 [3.0]	5 [2.8]	4 [2.3]	8 [3.0]
Epidermis, Hyperplasia				1 [3.0]
Epidermis, Necrosis			2 [3.0]	
Subcutaneous Tissue, Inflammation, Chronic Active		1 [2.0]		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Femur, Degeneration				1 [2.0]
Femur, Hyperostosis				2 [2.5]
Femur, Osteomalacia				1 [1.0]
Maxilla, Inflammation, Chronic Active		1 [2.0]	2 [1.0]	
Skeletal Muscle	(2)	(1)	(2)	(7)
Atrophy				1 [3.0]
Inflammation, Suppurative				1 [2.0]
Inflammation, Chronic Active				1 [4.0]
Necrosis				1 [2.0]

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	10 [2.7]	12 [3.0]	12 [2.7]	5 [2.4]

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

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Edema			1 [3.0]	
Hemorrhage			2 [2.0]	2 [3.0]
Infiltration Cellular, Mixed Cell		1 [1.0]		
Meninges, Hyperplasia			1 [2.0]	
Peripheral Nerve	(2)	(1)	(2)	(2)
Spinal Cord	(2)	(1)	(2)	(2)

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Foreign Body		50	50	50
Inflammation, Chronic Active		8 [1.1]		3 [1.3]
Metaplasia, Squamous				1 [1.0]
Arteriole, Necrosis				1 [2.0]
Respiratory Epithelium, Hyperplasia	5 [1.0]	6 [1.0]	2 [1.0]	3 [1.0]
Lung	(50)	(50)	(50)	(50)
Fibrosis	1 [1.0]	50 [1.5]	50 [1.5]	49 [1.4]
Foreign Body		50	50	50
Hemorrhage		5 [1.0]	3 [1.3]	
Hyperplasia, Lymphoid		1 [1.0]		
Inflammation, Suppurative	1 [1.0]			
Inflammation, Chronic Active	21 [1.0]	50 [2.3]	50 [2.2]	50 [2.2]
Mineralization	1 [1.0]			
Proteinosis		50 [2.4]	50 [2.9]	50 [3.1]
Thrombosis				1 [1.0]
Alveolar Epithelium, Hyperplasia	5 [1.6]	50 [1.9]	49 [1.9]	50 [2.1]
Alveolar Epithelium, Metaplasia, Squamous		5 [1.8]	3 [2.3]	1 [2.0]
Alveolus, Inflammation, Suppurative		5 [1.0]	6 [1.0]	5 [1.2]
Artery, Inflammation, Chronic Active			1 [2.0]	2 [1.0]
Artery, Necrosis				2 [1.0]
Bronchiole, Epithelium, Hyperplasia	6 [1.0]	26 [1.1]	25 [1.0]	27 [1.1]
Perivascular, Infiltration Cellular, Lymphocyte		18 [1.1]	11 [1.1]	8 [1.0]
Mediastinum	(0)	(0)	(2)	(9)
Artery, Inflammation, Chronic Active			2 [1.5]	9 [2.3]
Artery, Necrosis			1 [1.0]	6 [2.2]

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

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Nose	(50)	(50)	(50)	(50)
Foreign Body		5	26	45
Hyperplasia, Squamous			1 [2.0]	
Inflammation, Suppurative	2 [1.5]	6 [1.7]	5 [1.6]	4 [2.5]
Necrosis				2 [1.0]
Glands, Respiratory Epithelium, Hyperplasia			1 [1.0]	
Olfactory Epithelium, Accumulation, Hyaline Droplet	9 [1.6]	14 [1.8]	13 [1.5]	13 [1.5]
Olfactory Epithelium, Atrophy				2 [1.5]
Olfactory Epithelium, Degeneration				1 [1.0]
Olfactory Epithelium, Metaplasia, Respiratory		1 [2.0]		
Olfactory Epithelium, Necrosis				1 [1.0]
Olfactory Epithelium, Vacuolization Cytoplasmic			1 [1.0]	
Respiratory Epithelium, Accumulation, Hyaline Droplet		2 [1.0]	2 [1.0]	1 [1.0]
Respiratory Epithelium, Degeneration		1 [1.0]		
Respiratory Epithelium, Hyperplasia	4 [1.0]	6 [1.3]	7 [1.3]	16 [1.1]
Respiratory Epithelium, Metaplasia, Squamous		2 [1.5]	3 [2.0]	5 [1.2]
Respiratory Epithelium, Necrosis	1 [1.0]	1 [1.0]	2 [1.5]	1 [2.0]
Respiratory Epithelium, Regeneration			1 [2.0]	
Squamous Epithelium, Hyperplasia				1 [2.0]
Squamous Epithelium, Necrosis			1 [2.0]	1 [2.0]
Trachea	(50)	(50)	(50)	(50)
Fibrosis			1 [1.0]	1 [1.0]
Foreign Body		39	47	49
Inflammation, Suppurative				1 [1.0]
Metaplasia, Squamous Epithelium, Hyperplasia	1 [1.0]			2 [2.0]
Epithelium, Metaplasia, Squamous			1 [1.0]	
Epithelium, Regeneration	1 [1.0]		2 [1.0]	1 [1.0]

SPECIAL SENSES SYSTEM

Eye	(49)	(50)	(49)	(49)
Ciliary Body, Inflammation, Acute			1 [1.0]	6 [1.0]

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)

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:20:06

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Lens, Degeneration		2 [3.0]	2 [2.5]	
Posterior Chamber, Exudate			1 [1.0]	
Retina, Atrophy	6 [2.5]	21 [2.0]	18 [2.1]	19 [1.9]
Retina, Infiltration Cellular, Polymorphonuclear			1 [1.0]	
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia	1 [1.0]			

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Cyst	1 [2.0]	2 [2.5]		
Infarct		3 [1.7]	2 [2.5]	1 [2.0]
Nephropathy	16 [1.4]	15 [1.0]	20 [1.4]	24 [1.6]
Arteriole, Inflammation, Chronic Active				1 [1.0]
Artery, Fibrosis				1 [2.0]
Artery, Inflammation, Chronic Active				2 [1.5]
Artery, Necrosis			1 [2.0]	2 [1.5]
Papilla, Necrosis	1 [3.0]			
Pelvis, Dilatation	1 [2.0]			1 [2.0]
Pelvis, Inflammation, Suppurative				2 [1.5]
Pelvis, Inflammation, Chronic Active	2 [2.0]	3 [1.3]		1 [3.0]
Pelvis, Mineralization	31 [1.6]	30 [1.4]	24 [1.5]	15 [1.1]
Renal Tubule, Accumulation, Hyaline Droplet			5 [1.2]	11 [1.7]
Renal Tubule, Hyperplasia	1 [2.0]			1 [2.0]
Renal Tubule, Infiltration Cellular, Polymorphonuclear			1 [1.0]	
Urinary Bladder	(50)	(50)	(50)	(50)
Angiectasis				1 [3.0]

*** 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)