

Experiment Number: 20601 - 04

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

Date Report Requested: 12/03/2014

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

F1_M3

NTP Study Number: C20601

Lock Date: 06/22/2011

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25022 ACCK
25019 MSAC

25021 TSAC

25020 NATD

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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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE 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				
Accidentally Killed		1		
Moribund Sacrifice	7	12	15	26
Natural Death	5	7	8	7
Survivors				
Terminal Sacrifice	38	30	27	17
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	1 [1.0]			
Gallbladder	(44)	(41)	(38)	(40)
Inflammation, Chronic	2 [1.0]	1 [3.0]		2 [1.5]
Intestine Large, Cecum	(46)	(45)	(45)	(47)
Inflammation, Chronic Active		3 [2.0]		1 [2.0]
Intestine Large, Colon	(48)	(45)	(47)	(48)
Lymphoid Tissue, Hyperplasia	1 [4.0]			
Intestine Large, Rectum	(47)	(42)	(45)	(48)
Intestine Small, Duodenum	(45)	(45)	(42)	(46)
Intestine Small, Ileum	(46)	(44)	(43)	(48)
Atrophy		1 [2.0]		
Inflammation, Chronic Active		3 [1.7]		1 [1.0]
Peyer's Patch, Hyperplasia, Lymphoid	2 [1.0]			2 [2.0]
Intestine Small, Jejunum	(46)	(44)	(42)	(48)
Atrophy		1 [2.0]		
Inflammation	1 [4.0]		1 [4.0]	2 [2.5]
Mineralization				1 [1.0]
Necrosis			1 [4.0]	
Peyer's Patch, Hyperplasia, Lymphoid	1 [2.0]			2 [2.0]
Liver	(50)	(50)	(49)	(50)
Angiectasis	1 [1.0]		1 [2.0]	
Basophilic Focus	4	3	2	5

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B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Clear Cell Focus	14	9	10	6
Eosinophilic Focus	4	5	7	7
Eosinophilic Focus, Multiple				1
Fatty Change			1 [1.0]	
Hepatodiaphragmatic Nodule				1
Inflammation, Chronic Active	1 [1.0]	1 [2.0]		3 [1.7]
Mineralization	1 [2.0]			
Mixed Cell Focus	1	2	3	1
Necrosis	3 [2.7]	2 [2.5]	1 [1.0]	6 [2.5]
Pigmentation				1 [1.0]
Syncytial Alteration		1 [1.0]	1 [2.0]	
Thrombosis	1 [2.0]			1 [2.0]
Centrilobular, Atrophy	1 [2.0]			
Centrilobular, Atrophy, Chronic		1 [2.0]		
Mesentery	(7)	(4)	(4)	(5)
Cyst, Squamous				1 [2.0]
Hemorrhage			1 [4.0]	
Inflammation, Chronic Active			1 [4.0]	
Necrosis, Fatty	3 [1.7]	2 [1.5]	2 [2.5]	1 [2.0]
Thrombosis	1 [1.0]		1 [1.0]	
Artery, Inflammation, Chronic Active	1 [2.0]			2 [2.0]
Artery, Necrosis, Chronic Active				1 [3.0]
Oral Mucosa	(1)	(0)	(0)	(0)
Pharyngeal, Inflammation, Chronic Active	1 [3.0]			
Pancreas	(49)	(49)	(49)	(50)
Inflammation	1 [1.0]			1 [1.0]
Salivary Glands	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic Active	1 [1.0]			
Stomach, Forestomach	(50)	(50)	(49)	(50)
Hyperkeratosis		2 [1.5]	1 [1.0]	3 [2.3]
Hyperplasia, Squamous	1 [1.0]			3 [2.0]
Inflammation, Chronic Active	2 [1.0]	4 [1.0]	4 [1.3]	7 [1.3]
Mineralization			1 [1.0]	
Ulcer				2 [2.5]
Stomach, Glandular	(48)	(49)	(49)	(50)
Atrophy		1 [2.0]		

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Lab: BNW

B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Dysplasia, Focal	1 [2.0]			
Inflammation, Chronic Active	2 [1.0]	4 [1.3]		1 [1.0]
Mineralization	3 [1.3]	2 [1.0]	1 [1.0]	1 [1.0]
Necrosis	1 [1.0]		1 [1.0]	
Thrombosis			1 [2.0]	
Artery, Inflammation, Chronic Active		1 [3.0]		
Tooth	(14)	(14)	(14)	(6)
Dysplasia	12 [1.8]	13 [1.4]	12 [1.6]	6 [2.0]
Inflammation, Chronic Active	11 [2.1]	5 [2.4]	6 [2.2]	3 [3.0]

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(49)	(48)	(44)
Adventitia, Inflammation, Chronic Active				1 [1.0]
Media, Inflammation, Chronic Active	1 [1.0]		1 [2.0]	1 [1.0]
Thoracic, Thrombosis		1 [3.0]		
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	14 [1.3]	13 [1.2]	14 [1.1]	19 [1.1]
Necrosis			1 [3.0]	
Thrombosis			2 [3.5]	
Arteriole, Degeneration			1 [1.0]	
Artery, Inflammation, Chronic Active	6 [1.0]	10 [1.3]	8 [1.5]	9 [1.8]
Artery, Mineralization			1 [1.0]	
Atrium, Inflammation, Acute				1 [2.0]
Epicardium, Fibrosis				1 [1.0]
Epicardium, Inflammation, Chronic Active		2 [1.0]	7 [1.4]	16 [1.3]
Valve, Inflammation, Chronic			1 [1.0]	
Valve, Inflammation, Chronic Active		1 [4.0]	2 [2.5]	
Valve, Thrombosis		1 [4.0]		

ENDOCRINE SYSTEM

Adrenal Cortex	(49)	(50)	(49)	(49)
Necrosis			1 [3.0]	
Subcapsular, Hypertrophy		1 [1.0]		

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Lab: BNW

B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Zona Fasciculata, Hypertrophy	26 [1.2]	20 [1.3]	15 [1.1]	8 [1.0]
Zona Glomerulosa, Necrosis				1 [2.0]
Adrenal Medulla	(49)	(50)	(46)	(49)
Hyperplasia	5 [1.0]	8 [1.4]	9 [1.0]	7 [1.1]
Necrosis			1 [4.0]	
Islets, Pancreatic	(49)	(49)	(49)	(50)
Angiectasis			1 [1.0]	
Hyperplasia	4 [1.0]	3 [1.7]		2 [2.0]
Parathyroid Gland	(27)	(32)	(26)	(33)
Pituitary Gland	(49)	(49)	(48)	(50)
Pars Distalis, Cyst	3 [1.3]	3 [1.0]		6 [1.5]
Pars Distalis, Hyperplasia	4 [1.0]	9 [1.1]	8 [1.3]	3 [1.0]
Pars Intermedia, Hyperplasia		1 [1.0]		
Thyroid Gland	(49)	(49)	(48)	(49)
Artery, Inflammation, Chronic Active		1 [2.0]		
GENERAL BODY SYSTEM				
Peritoneum	(0)	(0)	(0)	(1)
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	1 [4.0]		1 [4.0]	
Arteriole, Inflammation, Chronic Active	1 [1.0]	1 [2.0]		1 [1.0]
Epithelium, Hypertrophy	1 [2.0]			
Preputial Gland	(50)	(50)	(49)	(50)
Ectasia	12 [1.7]	7 [1.9]	15 [1.8]	18 [1.4]
Hyperplasia	1 [2.0]			
Inflammation, Chronic Active	3 [1.7]	4 [2.5]	4 [2.8]	2 [2.5]
Prostate	(49)	(50)	(49)	(50)
Inflammation, Chronic Active		1 [1.0]	1 [4.0]	
Artery, Inflammation, Chronic Active	1 [1.0]	1 [3.0]		
Seminal Vesicle	(49)	(50)	(49)	(50)
Hyperplasia, Adenomatous	1 [1.0]			

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B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Inflammation, Chronic		1 [2.0]		
Testes	(49)	(49)	(50)	(50)
Degeneration	29 [1.3]	28 [1.2]	26 [1.1]	22 [1.3]
Mineralization	1 [2.0]	1 [1.0]		1 [1.0]
Necrosis		1 [4.0]		
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(50)	(48)	(50)
Hemorrhage				1 [2.0]
Hyperplasia	10 [1.0]	19 [1.0]	27 [1.0]	33 [1.1]
Myelofibrosis	1 [2.0]			
Necrosis	1 [1.0]	1 [4.0]		1 [2.0]
Thrombosis			1 [2.0]	1 [2.0]
Lymph Node	(2)	(2)	(2)	(2)
Hyperplasia, Plasma Cell	1 [3.0]			
Lymph Node, Bronchial	(30)	(43)	(47)	(41)
Ectasia		1 [3.0]		
Foreign Body		34	47	38
Hyperplasia, Lymphoid	2 [2.0]	21 [1.5]	26 [1.8]	13 [1.8]
Infiltration Cellular, Histiocyte		2 [1.5]	4 [1.0]	6 [1.2]
Lymph Node, Mandibular	(27)	(26)	(28)	(26)
Foreign Body		7	8	16
Hyperplasia, Lymphoid	4 [1.8]	8 [1.4]	6 [1.3]	4 [1.5]
Infiltration Cellular, Histiocyte		1 [1.0]	4 [1.0]	1 [1.0]
Lymph Node, Mediastinal	(37)	(45)	(48)	(49)
Angiectasis			1 [2.0]	1 [2.0]
Foreign Body		32	42	48
Hyperplasia, Lymphoid	2 [1.5]	8 [1.6]	17 [1.6]	34 [1.9]
Infiltration Cellular, Histiocyte		4 [1.0]	13 [1.1]	34 [1.7]
Artery, Necrosis, Fibrinoid				2 [3.0]
Lymph Node, Mesenteric	(48)	(47)	(47)	(50)
Angiectasis		1 [1.0]		1 [2.0]
Ectasia			1 [1.0]	
Fibrosis	1 [2.0]			

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B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hyperplasia, Lymphoid	3 [2.0]		1 [1.0]	2 [2.0]
Infiltration Cellular, Histiocyte				2 [2.0]
Infiltration Cellular, Mixed Cell		2 [2.0]		
Infiltration Cellular, Plasma Cell		4 [2.0]	1 [2.0]	
Infiltration Cellular, Polymorphonuclear			2 [1.0]	
Inflammation, Acute			1 [4.0]	
Artery, Inflammation, Chronic Active		1 [3.0]		
Spleen	(49)	(50)	(50)	(50)
Angiectasis		1 [1.0]		1 [1.0]
Hematopoietic Cell Proliferation	13 [1.4]	10 [1.5]	10 [1.7]	13 [1.9]
Hyperplasia, Lymphoid	4 [1.3]	6 [1.7]	6 [1.3]	3 [1.7]
Necrosis			1 [4.0]	
Artery, Necrosis, Fibrinoid				1 [2.0]
Thymus	(41)	(38)	(43)	(39)
Cyst			1 [1.0]	1 [1.0]
Depletion Cellular	15 [2.5]	14 [2.6]	32 [2.9]	32 [3.5]
Thrombosis			1 [2.0]	
Medulla, Hyperplasia, Lymphoid	2 [1.5]	1 [1.0]	4 [1.0]	2 [1.5]

INTEGUMENTARY SYSTEM

Mammary Gland	(0)	(2)	(4)	(1)
Skin	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	5 [3.6]	2 [3.0]	1 [4.0]	3 [4.0]
Necrosis		1 [4.0]		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(49)	(50)
Necrosis		1 [4.0]		
Femur, Fibro-Osseous Lesion	2 [3.0]	2 [1.0]	3 [1.3]	2 [1.5]
Maxilla, Fibro-Osseous Lesion		1 [1.0]		
Maxilla, Osteomalacia				1 [2.0]
Synovial Tissue, Inflammation, Chronic				1 [1.0]
Skeletal Muscle	(2)	(3)	(1)	(1)

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B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Degeneration Metaplasia, Cartilagenous Necrosis Artery, Inflammation, Chronic Active	1 [2.0]	1 [4.0] 1 [3.0]	1 [1.0]	

NERVOUS SYSTEM

	(50)	(50)	(50)	(50)
Brain	(50)	(50)	(50)	(50)
Hemorrhage		1 [2.0]	1 [1.0]	
Inflammation, Multifocal, Acute		1 [2.0]		
Thrombosis		2 [2.0]	1 [1.0]	
Arteriole, Inflammation, Chronic Active	1 [1.0]	2 [3.0]		
Cerebrum, Inflammation, Acute		1 [1.0]		
Cerebrum, Inflammation, Chronic				1 [1.0]
Meninges, Infiltration Cellular, Lymphoid		1 [1.0]	1 [1.0]	
Peripheral Nerve	(1)	(1)	(0)	(0)
Degeneration	1 [3.0]			
Spinal Cord	(1)	(2)	(0)	(0)

RESPIRATORY SYSTEM

	(50)	(50)	(50)	(50)
Larynx	(50)	(50)	(50)	(50)
Foreign Body		15	29	44
Inflammation, Chronic Active	8 [1.1]	4 [1.3]	7 [1.3]	11 [1.2]
Artery, Inflammation, Chronic Active				1 [2.0]
Respiratory Epithelium, Hyperplasia	1 [1.0]	3 [1.3]	15 [1.1]	30 [1.2]
Respiratory Epithelium, Inclusion Body Intracytoplasmic				1 [1.0]
Respiratory Epithelium, Metaplasia, Squamous			8 [1.0]	18 [1.1]
Respiratory Epithelium, Necrosis				1 [1.0]
Squamous Epithelium, Hyperplasia	2 [1.0]		4 [1.3]	13 [1.2]
Squamous Epithelium, Necrosis				1 [1.0]
Lung	(50)	(50)	(50)	(50)
Foreign Body		50	50	50
Hemorrhage, Acute	1 [2.0]			

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Infiltration Cellular, Histiocyte	1 [3.0]			
Infiltration Cellular, Lymphocyte	13 [1.2]	47 [1.4]	48 [2.1]	45 [2.9]
Inflammation, Focal, Chronic	1 [1.0]			
Inflammation, Chronic Active		48 [2.3]	50 [3.1]	50 [3.7]
Mineralization		1 [1.0]		
Necrosis			1 [2.0]	
Pigmentation, Focal	1 [1.0]			
Proteinosis			1 [2.0]	
Thrombosis	1 [1.0]	1 [3.0]		
Alveolar Epithelium, Hyperplasia	6 [1.2]	39 [1.1]	45 [1.8]	49 [1.9]
Alveolus, Fibrosis		12 [1.1]	30 [1.6]	37 [1.9]
Alveolus, Infiltration Cellular, Histiocyte	2 [1.5]			
Artery, Inflammation, Chronic Active	1 [1.0]	1 [2.0]		
Bronchiole, Epithelium, Hyperplasia		32 [1.2]	44 [1.3]	44 [1.6]
Bronchiole, Epithelium, Goblet Cell, Metaplasia			1 [1.0]	
Bronchus, Epithelium, Accumulation, Hyaline Droplet				2 [1.5]
Bronchus, Epithelium, Hyperplasia		1 [1.0]	1 [1.0]	
Bronchus, Epithelium, Metaplasia, Squamous			1 [2.0]	
Bronchus, Epithelium, Necrosis			1 [1.0]	
Bronchus, Epithelium, Goblet Cell, Metaplasia				3 [1.0]
Pleura, Fibrosis		36 [1.1]	46 [1.4]	50 [2.4]
Pleura, Inflammation	1 [1.0]	40 [1.0]	47 [1.3]	48 [1.8]
Nose	(50)	(49)	(49)	(50)
Foreign Body		48	48	49
Glands, Olfactory Epithelium, Accumulation, Hyaline Droplet				1 [1.0]
Glands, Olfactory Epithelium, Dilatation	1 [1.0]			
Glands, Olfactory Epithelium, Metaplasia, Respiratory	1 [1.0]			
Nasolacrimal Duct, Hyperplasia, Squamous		1 [2.0]		
Nasolacrimal Duct, Inflammation, Acute				2 [1.0]
Nasolacrimal Duct, Inflammation, Chronic Active	1 [1.0]	1 [1.0]	2 [1.0]	3 [1.7]
Nasopharyngeal Duct, Inflammation, Chronic Active		1 [1.0]		

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Olfactory Epithelium, Accumulation, Hyaline Droplet	3 [1.0]	2 [1.0]	4 [1.0]	4 [1.0]
Olfactory Epithelium, Atrophy		1 [1.0]	1 [2.0]	
Olfactory Epithelium, Inflammation, Acute			1 [1.0]	1 [4.0]
Olfactory Epithelium, Metaplasia, Respiratory	2 [1.5]	4 [1.3]		
Olfactory Epithelium, Necrosis				1 [2.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet	9 [1.0]	7 [1.3]	7 [1.0]	12 [1.2]
Respiratory Epithelium, Erosion, Acute			1 [2.0]	
Respiratory Epithelium, Hyperplasia				2 [1.0]
Respiratory Epithelium, Inflammation, Acute	1 [1.0]	1 [1.0]	3 [1.7]	2 [2.0]
Respiratory Epithelium, Inflammation, Chronic Active	3 [2.3]	9 [1.2]	9 [1.1]	6 [1.5]
Respiratory Epithelium, Metaplasia, Squamous		2 [1.5]	1 [2.0]	2 [1.0]
Respiratory Epithelium, Necrosis				2 [1.5]
Respiratory Epithelium, Regeneration			1 [1.0]	
Respiratory Epithelium, Thrombosis				1 [1.0]
Turbinate, Inflammation, Suppurative				2 [1.0]
Pleura	(0)	(0)	(0)	(2)
Trachea	(49)	(50)	(50)	(50)
Foreign Body		3	1	20
Inflammation, Chronic Active		1 [1.0]		
Metaplasia, Squamous			1 [1.0]	
Epithelium, Hyperplasia			2 [1.5]	5 [1.2]
Epithelium, Inclusion Body Intracytoplasmic				1 [2.0]
Epithelium, Metaplasia, Squamous				1 [1.0]
Glands, Cyst		1 [1.0]		

SPECIAL SENSES SYSTEM

Eye	(48)	(49)	(47)	(50)
Cataract	5 [1.8]	4 [1.8]	2 [1.5]	2 [2.0]
Hemorrhage			1 [2.0]	
Retinal Detachment	1 [4.0]			
Harderian Gland	(49)	(50)	(50)	(50)
Hyperplasia	1 [2.0]		2 [2.0]	3 [1.3]

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B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hypertrophy	2 [1.5]		1 [1.0]	
Epithelium, Hyperplasia	1 [2.0]			
URINARY SYSTEM				
Kidney	(50)	(50)	(49)	(50)
Cyst	1 [2.0]	1 [2.0]		
Hemorrhage			1 [4.0]	
Infarct		1 [4.0]	1 [4.0]	1 [2.0]
Inflammation, Acute	1 [1.0]		1 [2.0]	
Metaplasia, Osseous	1 [1.0]	1 [1.0]	2 [1.5]	1 [2.0]
Mineralization	2 [1.0]			
Nephropathy	41 [1.5]	39 [1.6]	38 [1.7]	40 [1.8]
Thrombosis		1 [4.0]		
Artery, Inflammation, Chronic Active		2 [1.0]		1 [1.0]
Glomerulus, Hyalinization			1 [1.0]	
Ureter	(1)	(0)	(0)	(0)
Urinary Bladder	(50)	(50)	(48)	(50)
Calculus Gross Observation	1			
Inflammation, Chronic Active	1 [4.0]		1 [2.0]	
Artery, Inflammation, Chronic Active		2 [2.0]		

*** END OF MALE ***

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

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

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE 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				
Accidentally Killed	1			
Moribund Sacrifice	10	11	16	27
Natural Death	3	8	8	8
Survivors				
Terminal Sacrifice	36	31	26	15
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(46)	(41)	(44)	(45)
Inflammation, Chronic		1 [1.0]	1 [1.0]	
Intestine Large, Cecum	(47)	(44)	(48)	(47)
Inflammation, Chronic Active		2 [2.0]	2 [1.5]	
Intestine Large, Colon	(47)	(47)	(49)	(47)
Necrosis			1 [2.0]	
Intestine Large, Rectum	(44)	(46)	(48)	(47)
Intestine Small, Duodenum	(47)	(44)	(45)	(45)
Intestine Small, Ileum	(47)	(45)	(47)	(45)
Inflammation, Chronic Active			1 [1.0]	
Peyer's Patch, Hyperplasia, Lymphoid			1 [1.0]	
Intestine Small, Jejunum	(47)	(43)	(46)	(44)
Inflammation		1 [1.0]		
Peyer's Patch, Hyperplasia, Lymphoid	1 [2.0]			
Liver	(50)	(50)	(50)	(50)
Angiectasis	2 [1.5]	1 [2.0]	1 [1.0]	2 [2.0]
Basophilic Focus				1
Clear Cell Focus	6	5	3	2
Cyst			1 [2.0]	
Eosinophilic Focus	2	3	2	
Fatty Change		2 [1.0]	1 [1.0]	
Hematopoietic Cell Proliferation				1 [2.0]

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Inflammation, Chronic Active	4 [1.3]	3 [1.3]	1 [1.0]	2 [1.5]
Mineralization		1 [1.0]		
Mixed Cell Focus	1		1	
Necrosis	3 [1.0]	2 [3.5]	5 [1.8]	2 [1.5]
Tension Lipidosis	4 [1.8]	3 [1.3]	3 [2.0]	
Thrombosis		1 [2.0]		
Centrilobular, Fatty Change		1 [2.0]		
Hepatocyte, Periportal, Hypertrophy			1 [1.0]	
Mesentery	(9)	(12)	(16)	(7)
Cyst		1 [2.0]		
Inflammation, Suppurative			1 [1.0]	
Inflammation, Chronic				1 [4.0]
Necrosis, Fatty	5 [1.8]	9 [1.8]	11 [2.1]	4 [1.8]
Artery, Inflammation, Chronic Active	2 [3.0]		2 [4.0]	1 [3.0]
Fat, Necrosis				1 [3.0]
Lymphatic, Angiectasis			1 [3.0]	
Pancreas	(50)	(50)	(50)	(50)
Atrophy		3 [3.7]	2 [4.0]	
Hypertrophy		1 [1.0]		
Inflammation			2 [2.5]	
Inflammation, Chronic Active				1 [1.0]
Necrosis			1 [2.0]	
Artery, Inflammation, Chronic Active		1 [1.0]		1 [2.0]
Duct, Cyst		2 [2.5]	1 [3.0]	
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation, Acute		1 [2.0]		
Artery, Inflammation, Chronic Active			1 [4.0]	1 [2.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Hyperkeratosis	2 [1.5]			
Hyperplasia, Squamous				1 [1.0]
Inflammation, Chronic Active		1 [1.0]		3 [1.0]
Mineralization		1 [2.0]		
Perforation, Chronic Active				1 [4.0]
Stomach, Glandular	(50)	(49)	(50)	(50)
Inflammation, Chronic Active	1 [1.0]	1 [1.0]	3 [2.0]	2 [3.0]
Mineralization	2 [1.0]	3 [1.3]	2 [1.0]	2 [1.0]

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Necrosis		1 [2.0]		1 [1.0]
Ulcer				1 [4.0]
Artery, Inflammation, Chronic Active			1 [2.0]	
Tongue	(0)	(1)	(0)	(0)
Hyperkeratosis		1 [3.0]		
Inflammation, Chronic Active		1 [3.0]		
Ulcer		1 [2.0]		
Tooth	(0)	(2)	(2)	(1)
Dysplasia		1 [4.0]	1 [3.0]	1 [1.0]
Inflammation, Chronic Active		1 [3.0]		
Peridental Tissue, Mineralization			1 [3.0]	

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(48)	(47)	(46)
Inflammation, Chronic Active	1 [1.0]		2 [3.0]	
Mineralization		1 [4.0]		
Thrombosis			1 [2.0]	
Adventitia, Inflammation, Chronic Active			2 [1.0]	1 [1.0]
Media, Inflammation, Chronic Active			1 [1.0]	1 [1.0]
Media, Mineralization			1 [3.0]	
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	11 [1.0]	13 [1.3]	6 [1.3]	11 [1.1]
Necrosis, Acute	1 [3.0]			
Thrombosis		2 [1.5]		
Artery, Inflammation, Chronic Active	10 [1.2]	4 [1.3]	11 [1.3]	5 [1.0]
Artery, Mineralization		1 [4.0]		
Epicardium, Inflammation, Chronic Active		2 [1.0]	7 [1.4]	7 [1.6]
Epicardium, Myocardium, Necrosis			1 [1.0]	
Myocardium, Inflammation, Acute		2 [2.0]	1 [2.0]	
Myocardium, Inflammation, Chronic Active		1 [1.0]		
Myocardium, Necrosis		1 [2.0]		
Pericardium, Hyperplasia, Lymphoid			1 [2.0]	
Pericardium, Inflammation, Chronic Active			1 [2.0]	1 [1.0]
Valve, Inflammation, Chronic Active	1 [1.0]	1 [4.0]	1 [1.0]	1 [1.0]

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Necrosis			1 [2.0]	
Zona Fasciculata, Hypertrophy	12 [1.3]	16 [1.1]	11 [1.1]	11 [1.2]
Zona Fasciculata, Necrosis			1 [1.0]	
Zona Glomerulosa, Hyperplasia				1 [1.0]
Adrenal Medulla	(50)	(50)	(48)	(49)
Hyperplasia	9 [1.3]	8 [1.1]	9 [1.2]	7 [1.3]
Islets, Pancreatic	(50)	(49)	(49)	(49)
Hyperplasia, Adenomatous	1 [2.0]			
Parathyroid Gland	(27)	(33)	(34)	(32)
Cyst	1 [1.0]			
Hypertrophy	1 [3.0]			
Pituitary Gland	(49)	(50)	(50)	(50)
Pars Distalis, Angiectasis			1 [2.0]	2 [2.0]
Pars Distalis, Cyst	2 [1.5]	1 [1.0]		
Pars Distalis, Hyperplasia	15 [1.1]	6 [1.2]	10 [1.1]	14 [1.4]
Pars Nervosa, Inflammation, Acute				1 [3.0]
Pars Nervosa, Thrombosis			1 [1.0]	
Thyroid Gland	(48)	(50)	(50)	(50)
Inflammation, Chronic Active			1 [2.0]	1 [1.0]
Follicular Cell, Hyperplasia	1 [1.0]			

GENERAL BODY SYSTEM

Peritoneum	(0)	(0)	(1)	(0)
Inflammation, Suppurative			1 [3.0]	

GENITAL SYSTEM

Clitoral Gland	(48)	(44)	(47)	(42)
Inflammation, Chronic Active	1 [1.0]	1 [1.0]		1 [2.0]

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Ovary	(50)	(49)	(50)	(50)
Angiectasis	1 [4.0]		2 [2.5]	1 [1.0]
Cyst			1 [3.0]	
Hemorrhage			1 [2.0]	
Inflammation, Acute	1 [4.0]		1 [3.0]	1 [1.0]
Inflammation, Chronic Active	1 [4.0]		1 [3.0]	1 [4.0]
Mineralization				1 [2.0]
Necrosis, Fatty				1 [2.0]
Artery, Inflammation, Chronic Active			1 [2.0]	
Bursa, Cyst	1	1	1	3
Follicle, Cyst	7	11	13	13
Oviduct	(1)	(0)	(0)	(0)
Uterus	(50)	(50)	(50)	(50)
Angiectasis	2 [2.5]		1 [1.0]	1 [3.0]
Hydrometra			1 [2.0]	
Inflammation, Chronic Active	1 [3.0]	3 [1.3]	1 [1.0]	2 [2.5]
Thrombosis	1 [4.0]			
Ulcer				1 [2.0]
Endometrial Glands, Endometrium, Hyperplasia	1 [4.0]			
Endometrium, Hyperplasia, Cystic	41 [2.2]	43 [2.1]	44 [1.9]	41 [2.0]
Lymphatic, Angiectasis			1 [2.0]	
Serosa, Cyst		1 [2.0]		

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Atrophy				1 [3.0]
Hyperplasia	3 [1.0]	5 [1.0]	15 [1.0]	28 [1.2]
Myelofibrosis	1 [2.0]			
Necrosis			1 [2.0]	
Lymph Node	(6)	(9)	(14)	(16)
Iliac, Angiectasis		1 [2.0]	1 [2.0]	
Iliac, Hyperplasia				1 [2.0]
Iliac, Hyperplasia, Lymphoid			1 [2.0]	

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Iliac, Inflammation				1 [1.0]
Lumbar, Angiectasis			1 [2.0]	
Lumbar, Ectasia				3 [2.3]
Lumbar, Hematopoietic Cell Proliferation				1 [4.0]
Lumbar, Hyperplasia, Lymphoid	1 [3.0]			
Renal, Angiectasis		3 [1.7]	1 [4.0]	
Renal, Hyperplasia, Lymphoid	1 [3.0]			1 [4.0]
Lymph Node, Bronchial	(41)	(47)	(48)	(49)
Foreign Body		34	46	43
Hyperplasia, Lymphoid	2 [1.0]	15 [1.5]	17 [1.7]	11 [1.7]
Infiltration Cellular, Histiocyte		2 [1.0]	7 [1.0]	7 [1.1]
Infiltration Cellular, Plasma Cell				1 [4.0]
Inflammation, Acute	1 [3.0]			1 [1.0]
Lymph Node, Mandibular	(41)	(28)	(38)	(39)
Angiectasis		1 [1.0]		
Foreign Body		5	9	3
Hyperplasia, Lymphoid	7 [1.1]	1 [2.0]	2 [1.0]	1 [2.0]
Infiltration Cellular, Histiocyte			2 [1.0]	1 [1.0]
Lymph Node, Mediastinal	(46)	(48)	(49)	(50)
Angiectasis		1 [2.0]		1 [2.0]
Foreign Body		28	45	44
Hyperplasia, Lymphoid		3 [2.7]	16 [1.8]	18 [1.9]
Infiltration Cellular, Histiocyte		6 [1.3]	11 [1.5]	16 [1.1]
Infiltration Cellular, Plasma Cell				1 [4.0]
Inflammation, Acute	1 [4.0]			
Pigmentation	1 [1.0]			
Arteriole, Necrosis			1 [3.0]	
Artery, Inflammation, Chronic Active		1 [1.0]	1 [3.0]	
Medullary Sinuses, Dilatation	1 [3.0]			
Lymph Node, Mesenteric	(50)	(48)	(48)	(46)
Angiectasis		2 [1.5]	1 [1.0]	
Hematopoietic Cell Proliferation				1 [3.0]
Hyperplasia, Lymphoid		2 [1.5]	3 [1.7]	1 [2.0]
Infiltration Cellular, Histiocyte			1 [1.0]	
Infiltration Cellular, Mixed Cell		2 [1.0]	1 [1.0]	
Infiltration Cellular, Plasma Cell		1 [2.0]		1 [3.0]

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: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Inflammation, Chronic Necrosis, Acute	1 [2.0]		1 [2.0]	
Spleen	(50)	(50)	(50)	(50)
Angiectasis		1 [1.0]		
Hematopoietic Cell Proliferation	17 [2.0]	19 [2.0]	20 [1.8]	35 [2.2]
Hyperplasia, Lymphoid	16 [1.6]	6 [1.3]	8 [1.4]	7 [1.6]
Inflammation, Chronic Active		1 [2.0]		1 [1.0]
Metaplasia, Osseous Necrosis			1 [1.0]	
Necrosis		1 [3.0]		
Thymus	(47)	(49)	(49)	(49)
Angiectasis	1 [1.0]	1 [2.0]		
Cyst			1 [1.0]	
Depletion Cellular	9 [1.9]	18 [2.9]	23 [2.8]	29 [2.3]
Foreign Body				1
Hyperplasia, Lymphoid			1 [2.0]	
Inflammation, Chronic Active	1 [2.0]	1 [2.0]	2 [2.5]	
Medulla, Hyperplasia, Lymphoid	13 [1.2]	12 [1.3]	15 [1.5]	16 [1.3]

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Dilatation			1 [2.0]	
Hyperplasia		2 [1.0]		1 [1.0]
Hypertrophy	1 [1.0]	4 [1.5]	3 [2.0]	1 [1.0]
Inflammation, Chronic Active		2 [1.0]		2 [1.0]
Necrosis, Acute			1 [2.0]	
Skin	(50)	(50)	(50)	(50)
Hyperplasia				2 [1.5]
Inflammation, Chronic Active	2 [3.5]	2 [1.0]	2 [1.5]	4 [3.5]
Ulcer				1 [4.0]

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(49)	(50)
Hyperostosis			1 [2.0]	

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Femur, Fibro-Osseous Lesion	21 [1.8]	16 [1.7]	10 [1.6]	6 [1.5]
Maxilla, Fibro-Osseous Lesion		2 [2.0]	1 [2.0]	1 [4.0]
Skeletal Muscle	(4)	(1)	(4)	(3)
Hemorrhage	1 [3.0]			
Inflammation, Chronic			1 [2.0]	
Artery, Inflammation, Chronic Active	1 [3.0]			

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	2 [2.5]	2 [2.0]	2 [2.5]	1 [2.0]
Demyelination	1 [2.0]			1 [1.0]
Necrosis, Acute				1 [4.0]
Thrombosis		1 [1.0]	1 [3.0]	
Arteriole, Inflammation, Chronic Active	2 [2.5]		2 [3.0]	1 [1.0]
Glial Cell, Hyperplasia	1 [1.0]			
Meninges, Infiltration Cellular, Histiocyte			1 [1.0]	
Meninges, Infiltration Cellular, Lymphoid	1 [1.0]	2 [1.0]	3 [1.0]	1 [1.0]
Peripheral Nerve	(3)	(0)	(2)	(1)
Sciatic, Degeneration			1 [1.0]	
Spinal Cord	(4)	(0)	(2)	(1)
Hemorrhage	1 [2.0]			

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Foreign Body		25	39	48
Inflammation, Chronic Active	4 [1.5]	3 [1.3]	2 [1.0]	4 [1.5]
Mineralization		1 [1.0]		
Arteriole, Inflammation, Chronic Active	1 [2.0]		2 [2.0]	
Artery, Inflammation, Chronic Active		1 [2.0]		
Cartilage, Mineralization		2 [1.5]		
Respiratory Epithelium, Hyperplasia	2 [1.0]		14 [1.1]	18 [1.1]
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]		5 [1.2]	24 [1.1]
Squamous Epithelium, Hyperplasia	4 [1.3]	1 [1.0]	1 [1.0]	12 [1.1]

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Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Lung	(50)	(50)	(50)	(50)
Foreign Body		50	50	50
Hemorrhage		1 [4.0]		
Infiltration Cellular, Histiocyte	1 [1.0]			
Infiltration Cellular, Lymphocyte	7 [1.1]	37 [1.5]	37 [2.4]	26 [3.2]
Inflammation, Chronic Active	1 [1.0]	50 [2.2]	50 [3.2]	50 [3.5]
Thrombosis	1 [2.0]	1 [2.0]		1 [2.0]
Alveolar Epithelium, Hyperplasia	1 [1.0]	36 [1.2]	49 [1.7]	48 [2.0]
Alveolar Epithelium, Metaplasia, Squamous		1 [1.0]		2 [3.0]
Alveolus, Fibrosis		13 [1.2]	30 [1.4]	38 [2.2]
Alveolus, Infiltration Cellular, Histiocyte				1 [1.0]
Alveolus, Metaplasia, Squamous			1 [1.0]	
Artery, Inflammation, Acute	1 [1.0]			
Bronchiole, Epithelium, Hyperplasia	1 [1.0]	34 [1.1]	48 [1.3]	45 [1.7]
Bronchiole, Epithelium, Goblet Cell, Metaplasia			1 [2.0]	1 [1.0]
Bronchus, Epithelium, Hyperplasia			1 [3.0]	
Bronchus, Epithelium, Goblet Cell, Metaplasia				2 [1.0]
Mediastinum, Inflammation, Acute	1 [3.0]			
Mediastinum, Necrosis, Fatty			1 [2.0]	
Pleura, Fibrosis	1 [1.0]	39 [1.1]	50 [1.4]	50 [2.2]
Pleura, Inflammation	4 [1.3]	27 [1.4]	42 [1.6]	38 [2.2]
Nose	(50)	(49)	(50)	(50)
Foreign Body	1	44	45	48
Artery, Inflammation, Chronic Active	1 [1.0]			
Glands, Dilatation				1 [1.0]
Glands, Olfactory Epithelium, Dilatation	1 [1.0]			
Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet			1 [2.0]	
Lumen, Hyperkeratosis	1 [2.0]			
Nasolacrimal Duct, Inflammation, Acute				1 [1.0]
Nasolacrimal Duct, Inflammation, Chronic Active		1 [1.0]	1 [1.0]	
Olfactory Epithelium, Accumulation, Hyaline Droplet	18 [1.1]	9 [1.2]	12 [1.3]	8 [1.0]
Olfactory Epithelium, Atrophy		2 [1.0]	1 [1.0]	1 [1.0]
Olfactory Epithelium, Metaplasia, Respiratory		1 [1.0]	3 [1.3]	
Olfactory Epithelium, Necrosis	1 [2.0]			

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

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

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 09:59:56

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Respiratory Epithelium, Accumulation, Hyaline Droplet	29 [1.1]	22 [1.2]	25 [1.2]	19 [1.1]
Respiratory Epithelium, Hyperplasia				2 [1.0]
Respiratory Epithelium, Inflammation, Acute	2 [1.5]	7 [1.1]	7 [1.0]	5 [1.0]
Respiratory Epithelium, Inflammation, Chronic Active	2 [1.5]	3 [1.3]	4 [1.0]	5 [1.0]
Respiratory Epithelium, Metaplasia, Squamous		3 [1.3]	2 [1.0]	4 [1.3]
Respiratory Epithelium, Mineralization			1 [3.0]	
Respiratory Epithelium, Necrosis	1 [2.0]	2 [1.0]		
Turbinate, Inflammation, Suppurative	1 [1.0]			
Turbinate, Necrosis			1 [3.0]	
Vomer nasal Organ, Necrosis	1 [3.0]			
Pleura	(0)	(2)	(0)	(2)
Necrosis, Fatty		1 [1.0]		1 [1.0]
Trachea	(50)	(50)	(50)	(50)
Foreign Body		7	14	20
Inflammation, Chronic Active	2 [1.0]	4 [1.0]	4 [1.0]	
Artery, Inflammation, Chronic Active	1 [1.0]		1 [2.0]	
Cartilage, Metaplasia, Osseous		1 [1.0]		
Epithelium, Hyperplasia				1 [1.0]
Epithelium, Metaplasia, Squamous			1 [1.0]	1 [1.0]
Epithelium, Mineralization		2 [2.0]		
Glands, Inflammation, Acute		1 [1.0]		
Glands, Metaplasia, Cartilagenous	2 [2.0]			

SPECIAL SENSES SYSTEM

Ear	(0)	(0)	(0)	(1)
Eye	(49)	(47)	(49)	(49)
Cataract	1 [2.0]	4 [1.0]	2 [2.0]	4 [2.0]
Cornea, Inflammation, Chronic Active				1 [2.0]
Retina, Atrophy	1 [4.0]			
Harderian Gland	(49)	(50)	(50)	(50)
Hyperplasia	2 [1.0]			
Inflammation, Acute			1 [1.0]	
Zymbal's Gland	(0)	(0)	(0)	(1)

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Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 10/06/08 / 10/06/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Cyst			2 [1.5]	
Infarct	1 [2.0]	3 [2.3]		
Inflammation, Acute		2 [3.0]		
Metaplasia, Osseous	1 [2.0]		2 [1.5]	1 [1.0]
Mineralization		1 [3.0]		
Necrosis		1 [2.0]		
Nephropathy	35 [1.2]	30 [1.4]	29 [1.4]	32 [1.3]
Artery, Inflammation, Chronic Active			1 [3.0]	
Urinary Bladder	(50)	(50)	(50)	(50)
Hyperplasia, Lymphoid	1 [2.0]		1 [2.0]	
Infiltration Cellular, Lymphocyte, Focal				1 [1.0]
Artery, Inflammation, Chronic Active	1 [2.0]		2 [2.0]	

*** END OF REPORT ***

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