

Test Type: CHRONIC

CUMENE

Time Report Requested: 15:28:27

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: 06/11/01 / 06/11/01

Species/Strain: MICE/B6C3F1

Pathologist: PIERCE, J. - GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	7	9	13	20
Natural Death	5	7	7	7
Survivors				
Terminal Sacrifice	38	34	30	23
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Gallbladder	(43)	(32)	(37)	(38)
Intestine Large, Cecum	(49)	(47)	(44)	(44)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site		1 (2%)		
Intestine Large, Colon	(50)	(46)	(45)	(48)
Leiomyoma		1 (2%)		
Intestine Small, Duodenum	(49)	(44)	(43)	(44)
Carcinoma		1 (2%)		
Intestine Small, Ileum	(49)	(46)	(43)	(44)
Intestine Small, Jejunum	(48)	(46)	(43)	(44)
Carcinoma	1 (2%)	1 (2%)		2 (5%)
Liver	(50)	(50)	(50)	(50)
Hemangioma	1 (2%)			
Hemangiosarcoma		1 (2%)	1 (2%)	1 (2%)
Hepatoblastoma	1 (2%)	1 (2%)	4 (8%)	3 (6%)
Hepatocellular Adenoma	17 (34%)	13 (26%)	15 (30%)	9 (18%)
Hepatocellular Adenoma, Multiple	17 (34%)	20 (40%)	22 (44%)	26 (52%)
Hepatocellular Carcinoma	10 (20%)	17 (34%)	17 (34%)	10 (20%)
Hepatocellular Carcinoma, Multiple	3 (6%)	1 (2%)	4 (8%)	7 (14%)
Hepatocholangiocarcinoma				1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Mesentery	(3)	(7)	(6)	(3)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site		1 (14%)		
Pancreas	(50)	(50)	(49)	(49)

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

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(49)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (2%)	1 (2%)		
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Squamous Cell Carcinoma			1 (2%)	
Squamous Cell Papilloma	1 (2%)			
Stomach, Glandular	(50)	(48)	(48)	(48)
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Tongue	(1)	(0)	(0)	(0)
Squamous Cell Carcinoma	1 (100%)			
Tooth	(15)	(8)	(8)	(6)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (7%)	1 (13%)		
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (2%)
Hemangiosarcoma			1 (2%)	
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)		
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Subcapsular, Adenoma	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Adrenal Medulla	(50)	(50)	(48)	(50)
Pheochromocytoma Benign		1 (2%)	1 (2%)	

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Pheochromocytoma Malignant Islets, Pancreatic	(50)	1 (2%) (50)	(49)	(49)
Pituitary Gland	(48)	(49)	(49)	(49)
Pars Distalis, Adenoma	1 (2%)			1 (2%)
Thyroid Gland	(50)	(50)	(49)	(50)
Follicular Cell, Adenoma				3 (6%)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Epididymis	(50)	(50)	(49)	(50)
Preputial Gland	(49)	(50)	(50)	(50)
Prostate	(50)	(49)	(48)	(49)
Testes	(50)	(50)	(49)	(50)
Interstitial Cell, Adenoma	1 (2%)			
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(49)	(49)
Lymph Node	(0)	(0)	(1)	(2)
Pancreatic, Sarcoma, Metastatic, Uncertain Primary Site				1 (50%)
Renal, Carcinoma, Metastatic, Uncertain Primary Site				1 (50%)
Lymph Node, Bronchial	(45)	(41)	(45)	(35)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (3%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (3%)
Sarcoma, Metastatic, Uncertain Primary Site				1 (3%)
Lymph Node, Mandibular	(34)	(35)	(22)	(25)
Carcinoma, Metastatic, Uncertain Primary Site				1 (4%)
Mast Cell Tumor Malignant, Metastatic,	1 (3%)			

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Uncertain Primary Site				
Lymph Node, Mediastinal	(37)	(42)	(40)	(39)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (3%)	2 (5%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (3%)
Hepatocellular Carcinoma, Metastatic, Liver				1 (3%)
Sarcoma, Metastatic, Uncertain Primary Site				1 (3%)
Lymph Node, Mesenteric	(48)	(47)	(46)	(44)
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Spleen	(50)	(50)	(49)	(50)
Hemangiosarcoma				4 (8%)
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Thymus	(45)	(44)	(38)	(44)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (2%)			
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(49)	(50)
Hepatocellular Carcinoma, Metastatic, Liver		1 (2%)		
Subcutaneous Tissue, Fibrosarcoma		1 (2%)		
Subcutaneous Tissue, Fibrous	1 (2%)	2 (4%)	1 (2%)	3 (6%)
Histiocytoma				
Subcutaneous Tissue, Sarcoma	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Uncertain Primary				1 (2%)

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Site				
Skeletal Muscle	(0)	(0)	(1)	(0)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (100%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Uncertain Primary Site				1 (2%)
RESPIRATORY SYSTEM				
Larynx	(50)	(49)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	12 (24%)	19 (38%)	16 (32%)	9 (18%)
Alveolar/Bronchiolar Adenoma, Multiple	1 (2%)	12 (24%)	15 (30%)	20 (40%)
Alveolar/Bronchiolar Carcinoma	9 (18%)	11 (22%)	12 (24%)	16 (32%)
Alveolar/Bronchiolar Carcinoma, Multiple		8 (16%)	20 (40%)	17 (34%)
Carcinoma, Metastatic, Harderian Gland	1 (2%)		2 (4%)	1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	7 (14%)	8 (16%)	11 (22%)	7 (14%)
Sarcoma, Metastatic, Uncertain Primary Site			1 (2%)	1 (2%)
Nose	(50)	(50)	(49)	(48)
Pleura	(0)	(0)	(0)	(2)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (50%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (50%)
Trachea	(50)	(50)	(49)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)

SPECIAL SENSES SYSTEM

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Eye	(49)	(50)	(49)	(48)
Harderian Gland	(48)	(50)	(49)	(50)
Adenoma	8 (17%)	2 (4%)	3 (6%)	4 (8%)
Carcinoma	4 (8%)	3 (6%)	2 (4%)	2 (4%)
Bilateral, Adenoma			1 (2%)	1 (2%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)	1 (2%)		
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (2%)	1 (2%)		
Capsule, Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Urinary Bladder Hemangiosarcoma	(50)	(48)	(49) 1 (2%)	(48)
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)		
Lymphoma Malignant	2 (4%)	1 (2%)	1 (2%)	

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

* Number of animals with any tissue examined microscopically

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Tumor Summary for Males				
Total Animals with Primary Neoplasms (b)	48	50	50	50
Total Primary Neoplasms	93	119	140	140
Total Animals with Benign Neoplasms	43	45	46	44
Total Benign Neoplasms	60	69	75	74
Total Animals with Malignant Neoplasms	26	34	47	45
Total Malignant Neoplasms	33	50	65	66
Total Animals with Metastatic Neoplasms	9	10	15	12
Total Metastatic Neoplasms	14	16	19	40
Total Animals with Malignant Neoplasms Uncertain Primary Site	1	1	1	2
Total Animals with Neoplasms Uncertain-Benign or Malignant Total Uncertain Neoplasms				

*** END OF MALE ***

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

b - Primary tumors: all tumors except metastatic tumors

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Pathologist: PIERCE, J. - GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	8	10	8	12
Natural Death	5	4	3	3
Survivors				
Natural Death				1
Terminal Sacrifice	37	36	39	34
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma				1 (2%)
Gallbladder	(38)	(41)	(44)	(37)
Intestine Large, Cecum	(46)	(47)	(49)	(47)
Intestine Large, Colon	(47)	(50)	(50)	(48)
Intestine Small, Duodenum	(46)	(47)	(49)	(48)
Carcinoma		1 (2%)		
Intestine Small, Ileum	(46)	(47)	(49)	(47)
Intestine Small, Jejunum	(46)	(47)	(49)	(47)
Liver	(50)	(50)	(50)	(50)
Hemangiosarcoma		1 (2%)		
Hepatoblastoma			1 (2%)	
Hepatocellular Adenoma	9 (18%)	10 (20%)	18 (36%)	19 (38%)
Hepatocellular Adenoma, Multiple	9 (18%)	13 (26%)	9 (18%)	10 (20%)
Hepatocellular Carcinoma	8 (16%)	6 (12%)	4 (8%)	12 (24%)
Hepatocellular Carcinoma, Multiple	2 (4%)	1 (2%)	2 (4%)	
Hepatocholangiocarcinoma		1 (2%)		
Ito Cell Tumor Benign				1 (2%)
Mesentery	(11)	(12)	(11)	(9)
Hemangiosarcoma			1 (9%)	
Sarcoma		1 (8%)		
Pancreas	(49)	(50)	(50)	(50)
Carcinoma, Metastatic, Uncertain Primary Site	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)

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Species/Strain: MICE/B6C3F1

Pathologist: PIERCE, J. - GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Stomach, Forestomach Squamous Cell Papilloma Epithelium, Squamous Cell Carcinoma	(49) 1 (2%)	(50) 1 (2%)	(50) 2 (4%)	(50) 2 (4%)
Stomach, Glandular	(49)	(50)	(50)	(49)
CARDIOVASCULAR SYSTEM				
Heart Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Carcinoma, Metastatic, Uncertain Primary Site Hepatocholangiocarcinoma, Metastatic, Liver	(50) 1 (2%)	(50) 1 (2%)	(50)	(50) 1 (2%) 1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex Hepatocholangiocarcinoma, Metastatic, Liver Adrenal Medulla Pheochromocytoma Malignant Islets, Pancreatic Adenoma Carcinoma Pituitary Gland Pars Distalis, Adenoma Pars Intermedia, Adenoma Thyroid Gland Carcinoma, Metastatic, Uncertain Primary Site Bilateral, Follicular Cell, Carcinoma C-cell, Adenoma Follicular Cell, Adenoma Follicular Cell, Carcinoma	(50) 1 (2%) 1 (2%) 1 (2%) 1 (2%) 8 (16%) 2 (4%) (50) 1 (2%) 1 (2%) 1 (2%) 1 (2%)	(50) 1 (2%) (49) (50) 1 (2%) (49) 6 (12%) (50) 1 (2%) 1 (2%) 4 (8%) 1 (2%)	(50) (50) 2 (4%) (50) 1 (2%) (50) 6 (12%) 1 (2%) (50)	(49) (49) 1 (2%) (50) 1 (2%) (48) 10 (21%) (50) 1 (2%) (50) 3 (6%)

GENERAL BODY SYSTEM

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
None				
GENITAL SYSTEM				
Ovary	(48)	(50)	(50)	(49)
Carcinoma, Metastatic, Uncertain Primary Site				1 (2%)
Cystadenocarcinoma		1 (2%)	1 (2%)	
Cystadenoma	5 (10%)	2 (4%)		3 (6%)
Luteoma			1 (2%)	
Teratoma Benign	1 (2%)			
Yolk Sac Carcinoma		1 (2%)		
Uterus	(50)	(50)	(50)	(50)
Leiomyoma			1 (2%)	
Polyp Stromal	3 (6%)		1 (2%)	2 (4%)
Bilateral, Polyp Stromal			1 (2%)	
Endometrium, Carcinoma	3 (6%)		1 (2%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(50)	(50)	(50)
Hemangiosarcoma			2 (4%)	
Lymph Node	(4)	(9)	(5)	(5)
Axillary, Hemangiosarcoma, Metastatic, Spleen			1 (20%)	
Renal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (20%)	
Renal, Hepatocholangiocarcinoma, Metastatic, Liver		1 (11%)		
Lymph Node, Bronchial	(39)	(36)	(40)	(46)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site	1 (3%)			
Lymph Node, Mandibular	(35)	(42)	(38)	(42)
Lymph Node, Mediastinal	(44)	(40)	(42)	(40)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	2 (5%)
Carcinoma, Metastatic, Uncertain Primary	1 (2%)			

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Site				
Hepatocholangiocarcinoma, Metastatic, Liver		1 (3%)		
Lymph Node, Mesenteric	(46)	(46)	(48)	(48)
Carcinoma, Metastatic, Uncertain Primary Site				1 (2%)
Spleen	(49)	(50)	(50)	(50)
Hemangiosarcoma			3 (6%)	1 (2%)
Thymus	(49)	(50)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site	1 (2%)			
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Carcinoma	1 (2%)	1 (2%)		
Fibroadenoma				1 (2%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Carcinoma			1 (2%)	
Squamous Cell Carcinoma	1 (2%)			
Subcutaneous Tissue, Fibrous			1 (2%)	
Histiocytoma				
Subcutaneous Tissue, Hemangioma				1 (2%)
Subcutaneous Tissue, Hemangiosarcoma	1 (2%)	2 (4%)	1 (2%)	
Subcutaneous Tissue, Sarcoma		1 (2%)	1 (2%)	2 (4%)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Hemangiosarcoma			1 (2%)	
Skeletal Muscle	(1)	(1)	(1)	(0)
Carcinoma, Metastatic, Uncertain Primary Site	1 (100%)			
Hemangiosarcoma			1 (100%)	
Hepatocholangiocarcinoma, Metastatic,		1 (100%)		

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Liver				
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
RESPIRATORY SYSTEM				
Larynx	(50)	(49)	(50)	(50)
Squamous Cell Papilloma				1 (2%)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)	13 (26%)	16 (32%)	8 (16%)
Alveolar/Bronchiolar Adenoma, Multiple		13 (26%)	20 (40%)	30 (60%)
Alveolar/Bronchiolar Carcinoma	3 (6%)	10 (20%)	13 (26%)	15 (30%)
Alveolar/Bronchiolar Carcinoma, Multiple		6 (12%)	7 (14%)	19 (38%)
Carcinoma, Metastatic, Harderian Gland	3 (6%)			
Carcinoma, Metastatic, Uncertain Primary Site	1 (2%)			1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	4 (8%)	5 (10%)	2 (4%)	3 (6%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Mediastinum, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Nose	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Harderian Gland	1 (2%)			
Hemangioma				1 (2%)
Hemangiosarcoma			1 (2%)	
Respiratory Epithelium, Adenoma		1 (2%)		
Pleura	(0)	(1)	(1)	(2)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (100%)	1 (50%)
Carcinoma, Metastatic, Uncertain Primary Site				1 (50%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (100%)		
Trachea	(50)	(50)	(50)	(50)

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
SPECIAL SENSES SYSTEM				
Eye	(49)	(50)	(50)	(49)
Harderian Gland	(50)	(49)	(50)	(50)
Adenoma	8 (16%)	4 (8%)		2 (4%)
Carcinoma	5 (10%)	1 (2%)	1 (2%)	5 (10%)
URINARY SYSTEM				
Kidney	(49)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site	1 (2%)			1 (2%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Urinary Bladder	(48)	(48)	(49)	(48)
Transitional Epithelium, Carcinoma			1 (2%)	
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)	2 (4%)	
Lymphoma Malignant	7 (14%)	15 (30%)	6 (12%)	12 (24%)

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

* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Time Report Requested: 15:28:27

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: 06/11/01 / 06/11/01

Species/Strain: MICE/B6C3F1

Pathologist: PIERCE, J. - GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Tumor Summary for Females				
Total Animals with Primary Neoplasms (b)	42	44	50	50
Total Primary Neoplasms	81	120	131	163
Total Animals with Benign Neoplasms	34	39	47	47
Total Benign Neoplasms	48	68	76	94
Total Animals with Malignant Neoplasms	26	33	37	43
Total Malignant Neoplasms	33	52	55	69
Total Animals with Metastatic Neoplasms	7	6	3	7
Total Metastatic Neoplasms	16	14	6	19
Total Animals with Malignant Neoplasms Uncertain Primary Site	1			1
Total Animals with Neoplasms Uncertain-Benign or Malignant Total Uncertain Neoplasms				

*** END OF REPORT ***

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

b - Primary tumors: all tumors except metastatic tumors