

TDMs No. 20116 - 04

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 01/15/2010

Test Type: CHRONIC

Aloe vera whole leaf extract (native)

Time Report Requested: 14:39:08

Route: DOSED WATER

CAS Number: ALOEVLEAFEXT

First Dose M/F: 04/19/05 / 04/19/05

Species/Strain: MICE/B6C3F1/NCTR

Lab: NCTR

C Number: C20116B
Lock Date: 09/08/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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Lab: NCTR

C57BL/6N XC3H/HEN MTV-NCTR MICE MALE CONTROL WATER ALOEWHOLLEAF 1.0 ALOEWHOLLEAF 2.0 ALOEWHOLLEAF 3.0

Disposition Summary

Animals Initially In Study	48	48	48	48
Early Deaths				
Moribund Sacrifice	16	16	23	15
Natural Death		2	4	4
Survivors				
Natural Death	1	1		1
Terminal Sacrifice	31	28	21	28
Animals Examined Microscopically	48	47	48	48

ALIMENTARY SYSTEM

Esophagus	(48)	(46)	(47)	(47)
Hepatoblastoma, Metastatic, Liver		1 (2%)		
Gallbladder	(46)	(43)	(45)	(43)
Intestine Large, Ascending Colon	(47)	(44)	(45)	(42)
Intestine Large, Cecum	(47)	(44)	(44)	(43)
Intestine Large, Descending Colon	(47)	(44)	(45)	(43)
Intestine Large, Transverse Colon	(47)	(44)	(45)	(43)
Intestine Small, Duodenum	(47)	(44)	(44)	(44)
Fibrous Histiocytoma				1 (2%)
Intestine Small, Ileum	(47)	(44)	(45)	(43)
Intestine Small, Jejunum	(47)	(44)	(43)	(43)
Carcinoma		1 (2%)		
Liver	(47)	(46)	(47)	(46)
Cholangiocarcinoma			1 (2%)	1 (2%)
Fibrous Histiocytoma				1 (2%)
Hemangiosarcoma	3 (6%)			2 (4%)
Hepatoblastoma		1 (2%)		
Hepatocellular Adenoma	3 (6%)	6 (13%)	4 (9%)	2 (4%)
Hepatocellular Adenoma, Multiple	3 (6%)			
Hepatocellular Carcinoma	8 (17%)	13 (28%)	8 (17%)	9 (20%)
Hepatocellular Carcinoma, Multiple	1 (2%)			1 (2%)
Hepatoblastoma		1 (2%)	1 (2%)	
Mesentery	(0)	(4)	(2)	(4)

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C57BL/6N XC3H/HEN MTV-NCTR MICE MALE CONTROL WATER ALOEWHOLLEAF 1.0 ALOEWHOLLEAF 2.0 ALOEWHOLLEAF 3.0

Fibrous Histiocytoma				1 (25%)
Pancreas	(47)	(46)	(47)	(45)
Cholangiocarcinoma, Metastatic, Liver			1 (2%)	
Fibrous Histiocytoma				1 (2%)
Hepatocarcinoma, Metastatic, Liver		1 (2%)	1 (2%)	
Salivary Glands	(48)	(45)	(46)	(45)
Stomach, Forestomach	(47)	(45)	(45)	(44)
Squamous Cell Carcinoma				1 (2%)
Squamous Cell Papilloma		1 (2%)		2 (5%)
Stomach, Glandular	(47)	(44)	(45)	(45)
Fibrous Histiocytoma				1 (2%)
Serosa, Hepatocarcinoma, Metastatic, Liver			1 (2%)	

CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(47)	(47)	(47)
Hepatocarcinoma, Metastatic, Liver		1 (2%)		
Heart	(48)	(47)	(47)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	
Cholangiocarcinoma, Metastatic, Liver			1 (2%)	
Fibrosarcoma, Metastatic, Skin				1 (2%)
Hepatocarcinoma, Metastatic, Liver		1 (2%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(48)	(44)	(46)	(45)
Cholangiocarcinoma, Metastatic, Liver			1 (2%)	
Fibrous Histiocytoma				1 (2%)
Hepatocarcinoma, Metastatic, Liver		1 (2%)		
Subcapsular, Adenoma	1 (2%)	3 (7%)	2 (4%)	
Adrenal Medulla	(47)	(44)	(46)	(44)
Cholangiocarcinoma, Metastatic, Liver			1 (2%)	
Pheochromocytoma Benign			3 (7%)	1 (2%)

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C57BL/6N XC3H/HEN MTV-NCTR MICE MALE	CONTROL WATER	ALOEWHOLLEAF 1.0	ALOEWHOLLEAF 2.0	ALOEWHOLLEAF 3.0
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Pheochromocytoma Malignant				1 (2%)
Islets, Pancreatic	(47)	(46)	(46)	(45)
Parathyroid Gland	(44)	(46)	(42)	(41)
Pituitary Gland	(48)	(45)	(45)	(45)
Thyroid Gland	(47)	(46)	(47)	(45)
Follicular Cell, Adenoma			1 (2%)	
Follicular Cell, Carcinoma			1 (2%)	

GENERAL BODY SYSTEM

Tissue NOS	(1)	(1)	(3)	(0)
Cholangiocarcinoma, Metastatic, Liver			1 (33%)	
Hepatocholangiocarcinoma, Metastatic, Liver			1 (33%)	
Mediastinum, Fibrosarcoma, Metastatic, Skin	1 (100%)			
Mediastinum, Hepatocholangiocarcinoma, Metastatic, Liver		1 (100%)		

GENITAL SYSTEM

Coagulating Gland	(1)	(1)	(0)	(0)
Epididymis	(48)	(44)	(46)	(45)
Fibrous Histiocytoma				1 (2%)
Hemangioma			1 (2%)	
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)	1 (2%)	
Penis	(0)	(1)	(0)	(0)
Preputial Gland	(47)	(44)	(46)	(45)
Fibrosarcoma	1 (2%)			
Fibrous Histiocytoma	1 (2%)			
Prostate	(47)	(44)	(46)	(44)
Hepatocholangiocarcinoma, Metastatic, Liver			1 (2%)	
Seminal Vesicle	(48)	(44)	(47)	(44)
Hepatocholangiocarcinoma, Metastatic, Liver			1 (2%)	
Testes	(47)	(44)	(45)	(44)
Hemangioma				1 (2%)

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C57BL/6N XC3H/HEN MTV-NCTR MICE MALE	CONTROL WATER	ALOEWHOLLEAF 1.0	ALOEWHOLLEAF 2.0	ALOEWHOLLEAF 3.0
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HEMATOPOIETIC SYSTEM

Bone Marrow	(47)	(45)	(47)	(45)
Lymph Node	(11)	(5)	(9)	(7)
Mediastinal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (9%)			
Mediastinal, Fibrous Histiocytoma				1 (14%)
Renal, Fibrosarcoma, Metastatic, Skin	1 (9%)			
Lymph Node, Mandibular	(47)	(44)	(45)	(44)
Lymph Node, Mesenteric	(48)	(45)	(45)	(43)
Hemangiosarcoma	1 (2%)		1 (2%)	
Spleen	(48)	(45)	(46)	(44)
Fibrous Histiocytoma				1 (2%)
Hemangiosarcoma		1 (2%)		
Thymus	(41)	(39)	(37)	(40)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (3%)	1 (3%)	

INTEGUMENTARY SYSTEM

Skin	(48)	(47)	(46)	(48)
Carcinoma				1 (2%)
Fibroma	3 (6%)		2 (4%)	1 (2%)
Fibrosarcoma	11 (23%)	10 (21%)	13 (28%)	9 (19%)
Fibrous Histiocytoma	2 (4%)			1 (2%)
Hemangioma	1 (2%)			
Hemangiosarcoma		1 (2%)		
Melanoma Malignant			1 (2%)	
Neoplasm Nos			1 (2%)	
Sarcoma			1 (2%)	1 (2%)
Schwannoma Malignant	1 (2%)	2 (4%)	3 (7%)	1 (2%)
Squamous Cell Papilloma				2 (4%)

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MUSCULOSKELETAL SYSTEM

Skeletal Muscle	(1)	(1)	(3)	(0)
Cholangiocarcinoma, Metastatic, Liver			1 (33%)	
Hepatocarcinoma, Metastatic, Liver		1 (100%)	1 (33%)	
Intercostal, Fibrosarcoma, Metastatic, Skin	1 (100%)			

NERVOUS SYSTEM

Brain, Cerebrum	(47)	(46)	(46)	(43)
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RESPIRATORY SYSTEM

Lung	(48)	(47)	(46)	(47)
Alveolar/Bronchiolar Adenoma	3 (6%)	1 (2%)	4 (9%)	3 (6%)
Alveolar/Bronchiolar Carcinoma	3 (6%)	1 (2%)	3 (7%)	1 (2%)
Carcinoma, Metastatic, Skin				1 (2%)
Cholangiocarcinoma, Metastatic, Liver			1 (2%)	
Fibrosarcoma, Metastatic, Skin	1 (2%)		1 (2%)	1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver		3 (6%)		
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)	1 (2%)	
Nose	(48)	(47)	(47)	(47)
Trachea	(48)	(47)	(46)	(45)

SPECIAL SENSES SYSTEM

Eye	(47)	(43)	(44)	(43)
Harderian Gland	(48)	(44)	(46)	(44)
Adenoma	3 (6%)	2 (5%)	2 (4%)	2 (5%)
Carcinoma	1 (2%)			

URINARY SYSTEM

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C57BL/6N XC3H/HEN MTV-NCTR MICE MALE	CONTROL WATER	ALOEWHOLLEAF 1.0	ALOEWHOLLEAF 2.0	ALOEWHOLLEAF 3.0
Kidney	(48)	(45)	(46)	(45)
Cholangiocarcinoma, Metastatic, Liver			1 (2%)	
Fibrous Histiocytoma				1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver		1 (2%)		
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Capsule, Hepatocholangiocarcinoma, Metastatic, Liver			1 (2%)	
Renal Tubule, Carcinoma				1 (2%)
Transitional Epithelium, Carcinoma				1 (2%)
Urethra	(1)	(0)	(0)	(1)
Urinary Bladder	(48)	(45)	(45)	(44)

SYSTEMIC LESIONS

Multiple Organ	*(48)	*(47)	*(48)	*(48)
Histiocytic Sarcoma			1 (2%)	1 (2%)
Lymphoma Malignant	4 (8%)	6 (13%)	5 (10%)	2 (4%)

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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C57BL/6N XC3H/HEN MTV-NCTR MICE MALE CONTROL WATER ALOEWHOLLEAF 1.0 ALOEWHOLLEAF 2.0 ALOEWHOLLEAF 3.0

Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	39	33	40	33
Total Primary Neoplasms	54	50	59	58
Total Animals with Benign Neoplasms	15	11	16	12
Total Benign Neoplasms	17	13	19	14
Total Animals with Malignant Neoplasms	30	28	32	27
Total Malignant Neoplasms	37	37	39	44
Total Animals with Metastatic Neoplasms	2	4	4	2
Total Metastatic Neoplasms	5	15	20	3
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant			1	
Total Uncertain Neoplasms			1	

*** END OF MALE ***

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b - Primary tumors: all tumors except metastatic tumors

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C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE CONTROL WATER ALOEWHOLLEAF 1.0 ALOEWHOLLEAF 2.0 ALOEWHOLLEAF 3.0

Disposition Summary

Animals Initially In Study	48	48	48	48
Early Deaths				
Moribund Sacrifice	6	12	8	6
Natural Death	5	4	3	5
Survivors				
Moribund Sacrifice	1	1		1
Natural Death		1	1	2
Terminal Sacrifice	35	30	36	34
Animals Examined Microscopically	47	48	48	48

ALIMENTARY SYSTEM

Gallbladder	(42)	(43)	(44)	(41)
Intestine Large, Ascending Colon	(43)	(43)	(44)	(43)
Intestine Large, Cecum	(42)	(43)	(44)	(42)
Intestine Large, Descending Colon	(43)	(43)	(44)	(43)
Intestine Large, Rectum	(43)	(43)	(44)	(42)
Fibrosarcoma, Metastatic, Skin	1 (2%)			
Intestine Large, Transverse Colon	(42)	(42)	(44)	(43)
Intestine Small, Duodenum	(43)	(43)	(44)	(42)
Adenoma	2 (5%)	2 (5%)	1 (2%)	1 (2%)
Intestine Small, Ileum	(42)	(43)	(44)	(42)
Intestine Small, Jejunum	(42)	(43)	(44)	(42)
Liver	(45)	(44)	(46)	(46)
Hemangiosarcoma				1 (2%)
Hepatocellular Adenoma	2 (4%)	5 (11%)	1 (2%)	4 (9%)
Hepatocellular Carcinoma	3 (7%)	5 (11%)		2 (4%)
Hepatocholangiocarcinoma		1 (2%)		
Osteosarcoma, Metastatic, Bone, Femur			1 (2%)	1 (2%)
Mesentery	(6)	(8)	(9)	(3)
Osteosarcoma, Metastatic, Bone, Femur			1 (11%)	
Oral Mucosa	(1)	(0)	(0)	(0)
Squamous Cell Carcinoma	1 (100%)			
Pancreas	(42)	(43)	(44)	(43)

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C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	CONTROL WATER	ALOEWHOLLEAF 1.0	ALOEWHOLLEAF 2.0	ALOEWHOLLEAF 3.0
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Salivary Glands	(43)	(43)	(44)	(43)
Stomach, Forestomach	(43)	(44)	(45)	(42)
Squamous Cell Papilloma		2 (5%)	2 (4%)	3 (7%)
Stomach, Glandular	(43)	(44)	(45)	(42)

CARDIOVASCULAR SYSTEM

Heart	(45)	(46)	(46)	(44)
Osteosarcoma, Metastatic, Bone, Femur			1 (2%)	

ENDOCRINE SYSTEM

Adrenal Cortex	(44)	(43)	(44)	(44)
Adrenal Medulla	(44)	(42)	(44)	(44)
Pheochromocytoma Benign				1 (2%)
Islets, Pancreatic	(42)	(43)	(44)	(43)
Parathyroid Gland	(42)	(37)	(42)	(40)
Pituitary Gland	(43)	(38)	(41)	(44)
Pars Distalis, Adenoma	14 (33%)	10 (26%)	6 (15%)	3 (7%)
Pars Intermedia, Adenoma	1 (2%)			
Thyroid Gland	(43)	(43)	(44)	(43)
Follicular Cell, Adenoma		1 (2%)		

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(44)	(44)	(44)	(42)
Ovary	(44)	(46)	(45)	(44)
Cystadenoma			1 (2%)	
Granulosa Cell Tumor Benign		1 (2%)	1 (2%)	1 (2%)

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C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	CONTROL WATER	ALOEWHOLLEAF 1.0	ALOEWHOLLEAF 2.0	ALOEWHOLLEAF 3.0
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Luteoma			1 (2%)	
Uterus	(46)	(45)	(44)	(45)
Hemangioma		1 (2%)	1 (2%)	
Hemangiosarcoma	1 (2%)			
Leiomyosarcoma			1 (2%)	
Polyp Stromal	1 (2%)	1 (2%)	5 (11%)	1 (2%)
Sarcoma	2 (4%)			

HEMATOPOIETIC SYSTEM

Bone Marrow	(43)	(43)	(44)	(43)
Hemangiosarcoma				1 (2%)
Lymph Node	(14)	(15)	(12)	(13)
Inguinal, Osteosarcoma, Metastatic, Bone, Femur			1 (8%)	
Mediastinal, Fibrosarcoma, Metastatic, Skin		1 (7%)		
Mediastinal, Hepatocholangiocarcinoma, Metastatic, Liver		1 (7%)		
Lymph Node, Mandibular	(43)	(44)	(45)	(43)
Sarcoma, Metastatic, Skin	1 (2%)			
Lymph Node, Mesenteric	(43)	(45)	(43)	(42)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Spleen	(44)	(46)	(45)	(44)
Hemangiosarcoma	3 (7%)	1 (2%)		1 (2%)
Thymus	(41)	(44)	(43)	(41)
Osteosarcoma, Metastatic, Bone, Femur			1 (2%)	

INTEGUMENTARY SYSTEM

Mammary Gland	(44)	(43)	(44)	(44)
Adenocarcinoma	5 (11%)	3 (7%)	2 (5%)	4 (9%)
Carcinosarcoma				1 (2%)
Skin	(44)	(46)	(45)	(44)
Fibroma		1 (2%)		
Fibrosarcoma	2 (5%)	2 (4%)	2 (4%)	2 (5%)

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C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	CONTROL WATER	ALOEWOLLEAF 1.0	ALOEWOLLEAF 2.0	ALOEWOLLEAF 3.0
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Fibrous Histiocytoma		1 (2%)	1 (2%)	
Hemangioma	1 (2%)			
Hemangiosarcoma				1 (2%)
Melanoma Benign	1 (2%)			1 (2%)
Sarcoma	3 (7%)			1 (2%)

MUSCULOSKELETAL SYSTEM

Bone, Femur	(47)	(46)	(48)	(46)
Osteosarcoma			1 (2%)	1 (2%)
Skeletal Muscle	(0)	(2)	(2)	(0)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (50%)	
Hepatocholangiocarcinoma, Metastatic, Liver		1 (50%)		

NERVOUS SYSTEM

Brain, Brain Stem	(43)	(44)	(44)	(43)
Brain, Cerebellum	(43)	(44)	(44)	(43)
Brain, Cerebrum	(43)	(44)	(44)	(43)

RESPIRATORY SYSTEM

Lung	(45)	(45)	(46)	(44)
Adenocarcinoma, Metastatic, Mammary Gland	1 (2%)			
Alveolar/Bronchiolar Adenoma	3 (7%)	2 (4%)	1 (2%)	1 (2%)
Alveolar/Bronchiolar Adenoma, Multiple		1 (2%)		
Alveolar/Bronchiolar Carcinoma		3 (7%)	2 (4%)	3 (7%)
Fibrosarcoma, Metastatic, Skin		1 (2%)		
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Osteosarcoma, Metastatic, Bone, Femur			1 (2%)	1 (2%)
Sarcoma	1 (2%)			
Sarcoma, Metastatic, Skin	1 (2%)			
Nose	(45)	(44)	(45)	(45)

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SPECIAL SENSES SYSTEM

Eye	(42)	(43)	(44)	(42)
Harderian Gland	(43)	(43)	(44)	(43)
Adenoma	3 (7%)	2 (5%)	2 (5%)	3 (7%)
Carcinoma	2 (5%)			
Bilateral, Adenoma		1 (2%)		
Lacrimal Gland	(1)	(0)	(0)	(0)

URINARY SYSTEM

Kidney	(44)	(43)	(46)	(44)
Osteosarcoma, Metastatic, Bone, Femur			1 (2%)	
Urinary Bladder	(43)	(43)	(44)	(42)

SYSTEMIC LESIONS

Multiple Organ	*(47)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	3 (6%)	1 (2%)	1 (2%)	1 (2%)
Leukemia			1 (2%)	2 (4%)
Lymphoma Malignant	18 (38%)	20 (42%)	18 (38%)	8 (17%)

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* Number of animals with any tissue examined microscopically

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Lab: NCTR

C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE

CONTROL WATER

ALOEWHOLLEAF 1.0

ALOEWHOLLEAF 2.0

ALOEWHOLLEAF 3.0

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	41	40	35	32
Total Primary Neoplasms	72	67	51	48
Total Animals with Benign Neoplasms	23	19	18	16
Total Benign Neoplasms	28	30	22	19
Total Animals with Malignant Neoplasms	37	33	28	23
Total Malignant Neoplasms	44	37	29	29
Total Animals with Metastatic Neoplasms	4	2	3	1
Total Metastatic Neoplasms	4	5	9	2
Total Animals with Malignant Neoplasms Uncertain Primary Site				
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