

**TDMS No.** 20313 - 06

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

**Date Report Requested:** 01/15/2010

**Test Type:** CHRONIC

Acrylamide

**Time Report Requested:** 14:38:52

**Route:** DOSED WATER

**CAS Number:** 79-06-1

**First Dose M/F:** 05/26/05 / 05/26/05

**Species/Strain:** MICE/B6C3F1/NCTR

**Lab:** NCTR

**C Number:** C20313  
**Lock Date:** 01/14/2010  
**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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C57BL/6N XC3H/HEN MTV-NCTR MICE MALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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## Disposition Summary

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	9	7	4	5	2
Natural Death	7	3	3	2	6
Survivors					
Moribund Sacrifice	3		4		1
Natural Death	1			2	
Terminal Sacrifice	28	38	37	39	39
Animals Examined Microscopically	48	48	48	48	48

## ALIMENTARY SYSTEM

Gallbladder	(41)	(45)	(45)	(42)	(43)
Intestine Large, Cecum	(40)	(46)	(45)	(44)	(43)
Intestine Small, Duodenum	(40)	(45)	(45)	(44)	(43)
Adenoma			1 (2%)	1 (2%)	
Intestine Small, Ileum	(41)	(46)	(45)	(44)	(43)
Intestine Small, Jejunum	(42)	(46)	(45)	(44)	(44)
Adenoma	1 (2%)				
Hemangiosarcoma	1 (2%)				
Liver	(47)	(46)	(47)	(48)	(46)
Hemangiosarcoma		1 (2%)		2 (4%)	
Hepatocellular Adenoma	5 (11%)	3 (7%)	7 (15%)	8 (17%)	5 (11%)
Hepatocellular Adenoma, Multiple	1 (2%)	1 (2%)	3 (6%)		
Hepatocellular Carcinoma	5 (11%)	6 (13%)	4 (9%)	1 (2%)	5 (11%)
Hepatocellular Carcinoma, Multiple	2 (4%)	2 (4%)			1 (2%)
Hepatocholangiocarcinoma					1 (2%)
Ito Cell Tumor Benign				1 (2%)	
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (2%)				
Mesentery	(0)	(1)	(0)	(1)	(0)
Oral Mucosa	(0)	(0)	(0)	(0)	(1)
Squamous Cell Carcinoma					1 (100%)
Pancreas	(46)	(47)	(47)	(46)	(45)

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

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Sarcoma	1 (2%)				
Salivary Glands	(45)	(47)	(47)	(46)	(45)
Stomach, Forestomach	(44)	(47)	(46)	(45)	(46)
Sarcoma	1 (2%)				
Squamous Cell Carcinoma	2 (5%)	1 (2%)			
Squamous Cell Papilloma	5 (11%)	6 (13%)	2 (4%)	2 (4%)	
Squamous Cell Papilloma, Multiple	1 (2%)				
Stomach, Glandular	(41)	(46)	(46)	(45)	(44)
Adenoma		1 (2%)			
Tongue	(1)	(0)	(0)	(0)	(0)
Squamous Cell Papilloma	1 (100%)				

## CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(47)	(46)	(47)	(47)
Hepatocholangiocarcinoma, Metastatic, Liver					1 (2%)
Heart	(48)	(47)	(47)	(47)	(47)
Hepatocholangiocarcinoma, Metastatic, Liver					1 (2%)

## ENDOCRINE SYSTEM

Adrenal Cortex	(44)	(47)	(47)	(46)	(45)
Adrenal Medulla	(44)	(47)	(46)	(44)	(44)
Pheochromocytoma Benign		1 (2%)		1 (2%)	
Pheochromocytoma Malignant		1 (2%)			
Islets, Pancreatic	(46)	(47)	(47)	(46)	(46)
Parathyroid Gland	(41)	(44)	(44)	(44)	(43)
Pituitary Gland	(42)	(45)	(46)	(47)	(44)
Thyroid Gland	(47)	(47)	(46)	(46)	(46)
Follicular Cell, Adenoma					1 (2%)

## GENERAL BODY SYSTEM

None

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

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## GENITAL SYSTEM

Epididymis	(44)	(47)	(47)	(46)	(46)
Penis	(1)	(0)	(1)	(0)	(0)
Preputial Gland	(46)	(47)	(47)	(46)	(44)
Squamous Cell Carcinoma	1 (2%)				
Squamous Cell Papilloma	1 (2%)				
Prostate	(44)	(47)	(47)	(45)	(45)
Seminal Vesicle	(44)	(47)	(47)	(46)	(45)
Testes	(43)	(47)	(46)	(44)	(45)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(44)	(47)	(47)	(47)	(46)
Hemangiosarcoma	1 (2%)			1 (2%)	
Lymph Node	(11)	(4)	(4)	(2)	(3)
Mediastinal, Hepatocholangiocarcinoma, Metastatic, Liver					1 (33%)
Pancreatic, Sarcoma	1 (9%)				
Lymph Node, Mandibular	(46)	(47)	(47)	(45)	(47)
Lymph Node, Mesenteric	(45)	(46)	(47)	(45)	(44)
Hemangiosarcoma	1 (2%)				
Spleen	(45)	(47)	(46)	(47)	(45)
Hemangiosarcoma			2 (4%)	3 (6%)	
Thymus	(40)	(42)	(41)	(42)	(43)

## INTEGUMENTARY SYSTEM

Skin	(46)	(47)	(47)	(47)	(47)
Basosquamous Tumor Benign	2 (4%)				
Squamous Cell Carcinoma		1 (2%)			
Squamous Cell Papilloma	3 (7%)	2 (4%)			1 (2%)
Subcutaneous Tissue, Fibroma	1 (2%)	2 (4%)	1 (2%)	1 (2%)	1 (2%)

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

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Subcutaneous Tissue, Fibrosarcoma	2 (4%)	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)		1 (2%)		
Subcutaneous Tissue, Lipoma	1 (2%)				
Subcutaneous Tissue, Liposarcoma				1 (2%)	
Subcutaneous Tissue, Sarcoma	1 (2%)	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Subcutaneous Tissue, Schwannoma Malignant	1 (2%)	2 (4%)			

MUSCULOSKELETAL SYSTEM

Bone, Femur	(48)	(48)	(48)	(48)	(48)
Skeletal Muscle	(44)	(47)	(47)	(46)	(45)
Hepatocholangiocarcinoma, Metastatic, Liver					1 (2%)

NERVOUS SYSTEM

Brain, Brain Stem	(45)	(47)	(47)	(46)	(46)
Brain, Cerebellum	(45)	(47)	(47)	(46)	(46)
Brain, Cerebrum	(45)	(47)	(47)	(46)	(46)
Peripheral Nerve, Sciatic	(45)	(47)	(47)	(46)	(46)
Spinal Cord, Cervical	(46)	(46)	(47)	(45)	(46)
Spinal Cord, Lumbar	(46)	(47)	(47)	(45)	(46)
Spinal Cord, Thoracic	(47)	(47)	(47)	(45)	(46)

RESPIRATORY SYSTEM

Lung	(48)	(45)	(47)	(46)	(47)
Alveolar/Bronchiolar Adenoma	13 (27%)	7 (16%)	12 (26%)	6 (13%)	3 (6%)
Alveolar/Bronchiolar Adenoma, Multiple	6 (13%)	3 (7%)	1 (2%)		2 (4%)
Alveolar/Bronchiolar Carcinoma	4 (8%)	1 (2%)	1 (2%)		2 (4%)
Fibrosarcoma, Metastatic, Skin				1 (2%)	
Hepatocellular Carcinoma, Metastatic, Liver		1 (2%)	1 (2%)		
Hepatocholangiocarcinoma, Metastatic, Liver					1 (2%)
Liposarcoma, Metastatic, Skin				1 (2%)	
Nose	(46)	(47)	(47)	(45)	(45)

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## SPECIAL SENSES SYSTEM

Eye	(41)	(44)	(45)	(44)	(44)
Harderian Gland	(47)	(47)	(47)	(46)	(46)
Adenocarcinoma	1 (2%)	1 (2%)			
Adenoma	15 (32%)	22 (47%)	21 (45%)	13 (28%)	2 (4%)
Bilateral, Adenoma	24 (51%)	14 (30%)	6 (13%)		

## URINARY SYSTEM

Kidney	(44)	(47)	(47)	(46)	(45)
Hepatocolangiocarcinoma, Metastatic, Liver					1 (2%)
Renal Tubule, Carcinoma				1 (2%)	
Urinary Bladder	(43)	(45)	(46)	(47)	(46)

## SYSTEMIC LESIONS

Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	4 (8%)	2 (4%)	1 (2%)	1 (2%)	2 (4%)
Leukemia	1 (2%)			1 (2%)	1 (2%)
Lymphoma Malignant	9 (19%)	4 (8%)	1 (2%)	1 (2%)	4 (8%)

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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**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	46	44	40	35	25
Total Primary Neoplasms	120	86	67	48	36
Total Animals with Benign Neoplasms	45	41	39	28	13
Total Benign Neoplasms	80	62	54	33	15
Total Animals with Malignant Neoplasms	29	20	13	14	19
Total Malignant Neoplasms	40	24	13	15	21
Total Animals with Metastatic Neoplasms	1	1	1	2	1
Total Metastatic Neoplasms	1	1	1	2	6
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant					
Total Uncertain Neoplasms					

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\*\*\* 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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**Disposition Summary**

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Accidentally Killed			2		
Moribund Sacrifice	17	17	8	6	4
Natural Death	10	3		4	2
Survivors					
Moribund Sacrifice	5	3	2	1	2
Natural Death	1			1	1
Terminal Sacrifice	15	25	36	36	39
Animals Examined Microscopically	47	48	48	48	48

ALIMENTARY SYSTEM

Gallbladder	(37)	(44)	(47)	(43)	(45)
Intestine Large, Cecum	(37)	(45)	(47)	(44)	(45)
Intestine Large, Colon	(37)	(45)	(48)	(44)	(45)
Intestine Large, Rectum	(38)	(45)	(47)	(44)	(45)
Intestine Small, Duodenum	(37)	(45)	(47)	(44)	(45)
Adenoma	1 (3%)			1 (2%)	
Intestine Small, Ileum	(37)	(45)	(47)	(44)	(45)
Sarcoma Stromal, Metastatic, Uterus		1 (2%)			
Intestine Small, Jejunum	(37)	(44)	(47)	(43)	(45)
Liver	(44)	(46)	(48)	(47)	(47)
Carcinoma, Metastatic, Stomach, Glandular	1 (2%)				
Hemangiosarcoma			1 (2%)		
Hepatocellular Adenoma	4 (9%)	1 (2%)	2 (4%)		3 (6%)
Hepatocellular Adenoma, Multiple	1 (2%)				
Hepatocellular Carcinoma			3 (6%)	2 (4%)	
Osteosarcoma			1 (2%)		
Mesentery	(2)	(1)	(0)	(0)	(0)
Hemangioma	1 (50%)				
Sarcoma	1 (50%)				
Pancreas	(40)	(45)	(48)	(45)	(46)
Sarcoma	1 (3%)				

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Sarcoma Stromal, Metastatic, Uterus		1 (2%)			
Salivary Glands	(42)	(45)	(48)	(46)	(47)
Adventitia, Fibrosarcoma, Metastatic, Skin	1 (2%)				
Stomach, Forestomach	(42)	(45)	(48)	(46)	(46)
Squamous Cell Papilloma	6 (14%)	5 (11%)	2 (4%)		4 (9%)
Squamous Cell Papilloma, Multiple	2 (5%)				
Stomach, Glandular	(39)	(45)	(48)	(44)	(45)
Carcinoma	1 (3%)				
Tongue	(0)	(1)	(1)	(0)	(1)
Squamous Cell Papilloma		1 (100%)			

## CARDIOVASCULAR SYSTEM

Blood Vessel	(45)	(45)	(48)	(47)	(46)
Heart	(44)	(46)	(48)	(47)	(48)

## ENDOCRINE SYSTEM

Adrenal Cortex	(41)	(45)	(48)	(46)	(45)
Adventitia, Sarcoma, Metastatic, Skin		1 (2%)			
Adrenal Medulla	(41)	(43)	(48)	(45)	(45)
Pheochromocytoma Benign	2 (5%)	1 (2%)			
Pheochromocytoma Malignant			1 (2%)		
Islets, Pancreatic	(40)	(45)	(48)	(46)	(46)
Parathyroid Gland	(41)	(43)	(45)	(46)	(41)
Pituitary Gland	(42)	(44)	(47)	(45)	(45)
Pars Distalis, Adenoma	1 (2%)		3 (6%)	3 (7%)	1 (2%)
Pars Distalis, Carcinoma		1 (2%)			
Thyroid Gland	(41)	(45)	(48)	(46)	(46)
Follicular Cell, Adenoma				1 (2%)	1 (2%)

## GENERAL BODY SYSTEM

Tissue NOS	(3)	(0)	(0)	(0)	(0)
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Fibrosarcoma, Metastatic, Skin	1 (33%)				
Neurofibrosarcoma, Metastatic, Skin	1 (33%)				
Sarcoma, Metastatic, Uterus	1 (33%)				

## GENITAL SYSTEM

Clitoral Gland	(41)	(45)	(47)	(47)	(44)
Ovary	(42)	(45)	(48)	(45)	(46)
Cystadenoma					1 (2%)
Granulosa Cell Tumor Benign	5 (12%)	1 (2%)		1 (2%)	
Hemangioma		1 (2%)			
Luteoma			1 (2%)		
Adventitia, Sarcoma, Metastatic, Skin		1 (2%)			
Uterus	(41)	(46)	(48)	(45)	(47)
Adenoma				1 (2%)	
Hemangiosarcoma				1 (2%)	
Leiomyoma					1 (2%)
Polyp Stromal	1 (2%)				
Sarcoma	2 (5%)				
Sarcoma Stromal		1 (2%)		1 (2%)	
Squamous Cell Carcinoma	1 (2%)				
Vagina	(0)	(1)	(0)	(0)	(0)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(42)	(45)	(48)	(46)	(45)
Hemangiosarcoma	1 (2%)		1 (2%)		
Lymph Node	(8)	(15)	(4)	(9)	(8)
Axillary, Liposarcoma, Metastatic, Skin		1 (7%)			
Inguinal, Liposarcoma, Metastatic, Skin		1 (7%)			
Renal, Fibrosarcoma, Metastatic, Skin		1 (7%)			
Renal, Liposarcoma, Metastatic, Skin		1 (7%)			
Lymph Node, Mandibular	(41)	(45)	(48)	(47)	(45)
Sarcoma, Metastatic, Skin	1 (2%)				
Lymph Node, Mesenteric	(42)	(44)	(46)	(46)	(44)

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Spleen	(44)	(45)	(48)	(46)	(46)
Hemangiosarcoma	2 (5%)		1 (2%)	1 (2%)	1 (2%)
Thymus	(39)	(45)	(46)	(44)	(40)

## INTEGUMENTARY SYSTEM

Mammary Gland	(42)	(45)	(48)	(46)	(47)
Adenoacanthoma	4 (10%)	2 (4%)	1 (2%)	1 (2%)	
Adenocarcinoma	12 (29%)	2 (4%)	5 (10%)	3 (7%)	
Adenocarcinoma, Multiple	1 (2%)		1 (2%)	1 (2%)	
Adenoma	1 (2%)				
Skin	(43)	(45)	(48)	(46)	(48)
Squamous Cell Carcinoma	2 (5%)				
Squamous Cell Papilloma		1 (2%)			1 (2%)
Subcutaneous Tissue, Fibrosarcoma	3 (7%)	4 (9%)	1 (2%)		
Subcutaneous Tissue, Fibrosarcoma, Multiple		1 (2%)			
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)				
Subcutaneous Tissue, Hemangiosarcoma	1 (2%)				
Subcutaneous Tissue, Liposarcoma		1 (2%)			
Subcutaneous Tissue, Mast Cell Tumor Malignant, Multiple			1 (2%)		
Subcutaneous Tissue, Myxosarcoma			1 (2%)		
Subcutaneous Tissue, Neurofibrosarcoma	1 (2%)	1 (2%)	1 (2%)		
Subcutaneous Tissue, Sarcoma	1 (2%)	3 (7%)			

## MUSCULOSKELETAL SYSTEM

Bone, Femur	(47)	(47)	(48)	(48)	(48)
Osteosarcoma	1 (2%)				
Skeletal Muscle	(42)	(45)	(48)	(46)	(47)
Neurofibrosarcoma, Metastatic, Skin	1 (2%)				
Sarcoma, Metastatic, Skin		1 (2%)			

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

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## NERVOUS SYSTEM

Brain, Brain Stem	(42)	(45)	(48)	(47)	(47)
Brain, Cerebellum	(41)	(45)	(48)	(47)	(47)
Brain, Cerebrum	(41)	(45)	(48)	(47)	(48)
Peripheral Nerve, Sciatic	(42)	(45)	(48)	(47)	(46)
Spinal Cord, Cervical	(44)	(45)	(48)	(47)	(47)
Spinal Cord, Lumbar	(45)	(45)	(48)	(47)	(47)
Fibrosarcoma, Metastatic, Skin		1 (2%)			
Spinal Cord, Thoracic	(44)	(45)	(48)	(47)	(48)

## RESPIRATORY SYSTEM

Lung	(45)	(45)	(48)	(47)	(47)
Alveolar/Bronchiolar Adenoma	15 (33%)	10 (22%)	6 (13%)	3 (6%)	1 (2%)
Alveolar/Bronchiolar Adenoma, Multiple	4 (9%)	1 (2%)		1 (2%)	
Alveolar/Bronchiolar Carcinoma	1 (2%)				1 (2%)
Fibrosarcoma, Metastatic, Skin	1 (2%)		1 (2%)		
Osteosarcoma			1 (2%)		
Sarcoma, Metastatic, Skin	1 (2%)				
Nose	(43)	(45)	(47)	(46)	(47)
Sarcoma, Metastatic, Skin	1 (2%)				

## SPECIAL SENSES SYSTEM

Eye	(38)	(45)	(47)	(44)	(45)
Harderian Gland	(43)	(47)	(48)	(44)	(45)
Adenoma	16 (37%)	25 (53%)	18 (38%)	8 (18%)	
Bilateral, Adenoma	15 (35%)	7 (15%)	2 (4%)		

## URINARY SYSTEM

Kidney	(40)	(45)	(48)	(46)	(47)
Osteosarcoma			1 (2%)		

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

Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:52

Route: DOSED WATER

CAS Number: 79-06-1

First Dose M/F: 05/26/05 / 05/26/05

Species/Strain: MICE/B6C3F1/NCTR

Lab: NCTR

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C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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Pelvis, Sarcoma, Metastatic, Skin		1 (2%)			
Ureter	(1)	(0)	(0)	(0)	(0)
Urinary Bladder	(38)	(45)	(48)	(45)	(45)
Sarcoma Stromal, Metastatic, Uterus		1 (2%)			

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SYSTEMIC LESIONS

Multiple Organ	*(47)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	1 (2%)	4 (8%)		4 (8%)	
Leukemia	2 (4%)		1 (2%)	1 (2%)	
Lymphoma Malignant	8 (17%)	9 (19%)	8 (17%)	7 (15%)	5 (10%)

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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

Acrylamide

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C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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**Tumor Summary for Females**

Total Animals with Primary Neoplasms (b)	46	47	36	30	18
Total Primary Neoplasms	123	83	64	41	20
Total Animals with Benign Neoplasms	39	39	28	16	12
Total Benign Neoplasms	75	54	34	19	13
Total Animals with Malignant Neoplasms	34	26	20	20	6
Total Malignant Neoplasms	48	29	30	22	7
Total Animals with Metastatic Neoplasms	5	5	1		
Total Metastatic Neoplasms	10	12	1		
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant					
Total Uncertain Neoplasms					

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\*\*\* 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