

Experiment Number: 20314 - 04

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

Date Report Requested: 12/17/2014

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 06/02/05 / 06/02/05

Species/Strain: MICE/B6C3F1/NCTR

Lab: NCTR

NTP Study Number: C20314
Lock Date: 10/03/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
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/NCTR

Lab: NCTR

C57BL/6N XC3H/HEN MTV-NCTR MICE MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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Disposition Summary

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	11	16	11	4	
Natural Death	9	3	2	3	1
Survivors					
Moribund Sacrifice	2	2	1		2
Natural Death	1	1			
Terminal Sacrifice	25	26	34	41	45
Animals Examined Microscopically	48	48	48	48	48

ALIMENTARY SYSTEM

Esophagus	(46)	(47)	(47)	(48)	(47)
Gallbladder	(39)	(45)	(46)	(45)	(46)
Intestine Large, Cecum	(39)	(44)	(46)	(45)	(47)
Intestine Large, Colon	(39)	(45)	(47)	(45)	(47)
Intestine Large, Rectum	(39)	(45)	(47)	(45)	(47)
Intestine Small, Duodenum	(39)	(44)	(46)	(45)	(47)
Adenoma		1 (2%)			
Intestine Small, Ileum	(39)	(44)	(46)	(45)	(47)
Intestine Small, Jejunum	(39)	(44)	(46)	(45)	(47)
Liver	(48)	(47)	(47)	(47)	(47)
Hemangiosarcoma			1 (2%)		
Hepatocellular Adenoma	10 (21%)	8 (17%)	8 (17%)	1 (2%)	9 (19%)
Hepatocellular Adenoma, Multiple	1 (2%)	4 (9%)			1 (2%)
Hepatocellular Carcinoma	9 (19%)	7 (15%)	6 (13%)	9 (19%)	5 (11%)
Hepatocellular Carcinoma, Multiple	2 (4%)	2 (4%)	1 (2%)	1 (2%)	
Hepatocholangiocarcinoma	2 (4%)	1 (2%)			
Mesentery	(1)	(1)	(0)	(1)	(2)
Fibrous Histiocytoma					1 (50%)
Hepatocholangiocarcinoma, Metastatic, Liver	1 (100%)				
Oral Mucosa	(2)	(0)	(0)	(1)	(0)
Squamous Cell Carcinoma	1 (50%)				
Squamous Cell Papilloma	1 (50%)				

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

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Lab: NCTR

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Pancreas	(45)	(47)	(47)	(46)	(47)
Fibrous Histiocytoma					1 (2%)
Salivary Glands	(44)	(46)	(47)	(47)	(47)
Stomach, Forestomach	(41)	(45)	(48)	(45)	(47)
Squamous Cell Carcinoma	2 (5%)				
Squamous Cell Papilloma	9 (22%)	1 (2%)	3 (6%)	2 (4%)	
Squamous Cell Papilloma, Multiple	1 (2%)	1 (2%)			
Stomach, Glandular	(38)	(44)	(46)	(45)	(47)
Tongue	(0)	(1)	(0)	(0)	(0)
Squamous Cell Carcinoma		1 (100%)			
CARDIOVASCULAR SYSTEM					
Blood Vessel	(47)	(47)	(47)	(48)	(47)
Hepatocolangiocarcinoma, Metastatic, Liver	1 (2%)				
Heart	(46)	(47)	(47)	(48)	(47)
Hepatocolangiocarcinoma, Metastatic, Liver	1 (2%)				
ENDOCRINE SYSTEM					
Adrenal Cortex	(44)	(45)	(47)	(47)	(47)
Hepatocolangiocarcinoma, Metastatic, Liver	1 (2%)				
Adrenal Medulla	(43)	(45)	(47)	(46)	(47)
Pheochromocytoma Benign	1 (2%)			1 (2%)	1 (2%)
Islets, Pancreatic	(44)	(47)	(47)	(47)	(47)
Adenoma	1 (2%)				
Parathyroid Gland	(42)	(42)	(43)	(48)	(43)
Pituitary Gland	(42)	(42)	(47)	(44)	(45)
Pars Distalis, Carcinoma		1 (2%)			
Thyroid Gland	(43)	(44)	(47)	(48)	(47)
Follicular Cell, Carcinoma			1 (2%)		
GENERAL BODY SYSTEM					

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Tissue NOS	(1)	(1)	(0)	(0)	(0)
Thoracic, Hepatocholangiocarcinoma, Metastatic, Liver	1 (100%)				
GENITAL SYSTEM					
Epididymis	(43)	(46)	(47)	(47)	(47)
Penis	(0)	(0)	(1)	(0)	(0)
Preputial Gland	(44)	(46)	(46)	(47)	(47)
Hemangioma			1 (2%)		
Squamous Cell Carcinoma		1 (2%)			
Prostate	(41)	(45)	(47)	(47)	(47)
Fibrous Histiocytoma					1 (2%)
Seminal Vesicle	(41)	(45)	(47)	(46)	(47)
Testes	(42)	(46)	(46)	(46)	(47)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(44)	(46)	(47)	(47)	(47)
Lymph Node	(6)	(6)	(2)	(5)	(4)
Axillary, Fibrous Histiocytoma					1 (25%)
Inguinal, Fibrous Histiocytoma					1 (25%)
Lumbar, Fibrous Histiocytoma					1 (25%)
Mediastinal, Fibrous Histiocytoma					1 (25%)
Lymph Node, Mandibular	(43)	(45)	(47)	(47)	(47)
Fibrous Histiocytoma					1 (2%)
Lymph Node, Mesenteric	(42)	(45)	(47)	(46)	(47)
Fibrous Histiocytoma					1 (2%)
Spleen	(44)	(46)	(47)	(47)	(47)
Basosquamous Tumor Malignant, Metastatic, Skin	1 (2%)				
Hemangiosarcoma	2 (5%)	1 (2%)	1 (2%)		2 (4%)
Thymus	(34)	(39)	(43)	(45)	(43)

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INTEGUMENTARY SYSTEM

Mammary Gland	(1)	(2)	(0)	(1)	(3)
Skin	(46)	(47)	(47)	(48)	(47)
Basosquamous Tumor Malignant	2 (4%)				
Fibroma				1 (2%)	
Fibroma, Multiple			1 (2%)		
Keratoacanthoma	1 (2%)				
Squamous Cell Carcinoma	2 (4%)				
Squamous Cell Papilloma	8 (17%)	1 (2%)	2 (4%)	1 (2%)	
Subcutaneous Tissue, Fibrosarcoma	3 (7%)	2 (4%)	4 (9%)		2 (4%)
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)			2 (4%)	1 (2%)
Subcutaneous Tissue, Hemangiosarcoma	1 (2%)			1 (2%)	
Subcutaneous Tissue, Sarcoma		2 (4%)		1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant		3 (6%)	4 (9%)	1 (2%)	

MUSCULOSKELETAL SYSTEM

Bone, Femur	(47)	(48)	(48)	(48)	(48)
Skeletal Muscle	(47)	(47)	(47)	(47)	(48)
Hemangiosarcoma					1 (2%)
Hepatocolangiocarcinoma, Metastatic, Liver	1 (2%)				
Sarcoma		1 (2%)			

NERVOUS SYSTEM

Brain, Brain Stem	(42)	(46)	(46)	(47)	(47)
Brain, Cerebellum	(42)	(46)	(46)	(47)	(47)
Brain, Cerebrum	(42)	(46)	(46)	(47)	(47)
Peripheral Nerve, Sciatic	(42)	(46)	(47)	(47)	(47)
Schwannoma Malignant, Metastatic, Skin			1 (2%)		
Spinal Cord, Cervical	(39)	(44)	(46)	(46)	(47)
Spinal Cord, Lumbar	(39)	(45)	(46)	(46)	(47)
Spinal Cord, Thoracic	(39)	(45)	(46)	(46)	(47)

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RESPIRATORY SYSTEM

Lung	(47)	(47)	(47)	(46)	(47)
Adenocarcinoma, Metastatic, Harderian Gland	1 (2%)				
Alveolar/Bronchiolar Adenoma	13 (28%)	8 (17%)	5 (11%)	6 (13%)	
Alveolar/Bronchiolar Adenoma, Multiple	4 (9%)	5 (11%)	2 (4%)	1 (2%)	
Alveolar/Bronchiolar Carcinoma	2 (4%)		1 (2%)		
Basosquamous Tumor Malignant, Metastatic, Skin	1 (2%)				
Fibrosarcoma, Metastatic, Skin			1 (2%)		
Hepatocellular Carcinoma, Metastatic, Liver		1 (2%)	1 (2%)		1 (2%)
Hepatocholangiocarcinoma, Metastatic, Liver	1 (2%)	1 (2%)			
Sarcoma, Metastatic, Skeletal Muscle		1 (2%)			
Nose	(45)	(47)	(47)	(46)	(47)
Fibrous Histiocytoma					1 (2%)
Hepatocholangiocarcinoma, Metastatic, Liver	1 (2%)				
Trachea	(45)	(46)	(46)	(48)	(47)

SPECIAL SENSES SYSTEM

Eye	(42)	(44)	(46)	(45)	(47)
Harderian Gland	(47)	(46)	(47)	(47)	(47)
Adenocarcinoma	1 (2%)				
Adenoma	11 (23%)	17 (37%)	19 (40%)	15 (32%)	3 (6%)
Bilateral, Adenoma	31 (66%)	15 (33%)	4 (9%)	2 (4%)	
Zymbal's Gland	(1)	(0)	(0)	(0)	(0)

URINARY SYSTEM

Kidney	(46)	(46)	(47)	(47)	(47)
Hepatocholangiocarcinoma, Metastatic, Liver	1 (2%)				
Renal Tubule, Adenoma	1 (2%)				
Renal Tubule, Carcinoma	2 (4%)				

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Urinary Bladder	(41)	(45)	(47)	(46)	(47)
Hemangioma	1 (2%)				
Transitional Epithelium, Papilloma	1 (2%)				

SYSTEMIC LESIONS

Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	3 (6%)	3 (6%)	1 (2%)		1 (2%)
Leukemia	1 (2%)				
Lymphoma Malignant	7 (15%)	4 (8%)	2 (4%)	4 (8%)	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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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	47	46	41	35	23
Total Primary Neoplasms	138	90	67	49	38
Total Animals with Benign Neoplasms	43	40	34	23	14
Total Benign Neoplasms	95	61	45	30	14
Total Animals with Malignant Neoplasms	33	27	21	17	13
Total Malignant Neoplasms	43	29	22	19	24
Total Animals with Metastatic Neoplasms	3	3	3		1
Total Metastatic Neoplasms	12	3	3		1
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant					
Total Uncertain Neoplasms					

*** END OF MALE ***

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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					
Moribund Sacrifice	32	7	6	2	2
Natural Death	6	4	2	2	1
Survivors					
Moribund Sacrifice	2	5	2		2
Natural Death		1		2	2
Terminal Sacrifice	8	31	38	42	41
Animals Examined Microscopically	48	48	48	48	47

ALIMENTARY SYSTEM

Esophagus	(45)	(47)	(46)	(48)	(46)
Squamous Cell Carcinoma		1 (2%)			
Gallbladder	(41)	(44)	(47)	(44)	(45)
Intestine Large, Cecum	(42)	(45)	(46)	(44)	(45)
Intestine Large, Colon	(43)	(45)	(47)	(45)	(45)
Intestine Large, Rectum	(43)	(45)	(46)	(45)	(45)
Polyp Adenomatous	1 (2%)				
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				
Intestine Small, Duodenum	(42)	(45)	(46)	(44)	(45)
Adenoma	1 (2%)				
Intestine Small, Ileum	(42)	(45)	(46)	(44)	(45)
Fibrous Histiocytoma					1 (2%)
Intestine Small, Jejunum	(42)	(45)	(46)	(44)	(45)
Liver	(43)	(46)	(47)	(48)	(47)
Fibrous Histiocytoma					1 (2%)
Hemangiosarcoma			1 (2%)		
Hepatocellular Adenoma		2 (4%)	4 (9%)	2 (4%)	4 (9%)
Hepatocellular Carcinoma	1 (2%)	2 (4%)	2 (4%)	1 (2%)	
Pancreas	(44)	(46)	(47)	(48)	(45)
Fibrous Histiocytoma					1 (2%)
Salivary Glands	(44)	(47)	(47)	(47)	(45)
Stomach, Forestomach	(44)	(45)	(47)	(45)	(45)

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Squamous Cell Papilloma Stomach, Glandular	9 (20%) (43)	5 (11%) (45)	1 (2%) (47)	1 (2%) (45)	1 (2%) (45)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(45)	(47)	(47)	(48)	(46)
Heart	(45)	(47)	(47)	(48)	(46)
ENDOCRINE SYSTEM					
Adrenal Cortex	(44)	(47)	(47)	(48)	(45)
Subcapsular, Adenoma	1 (2%)				
Adrenal Medulla	(43)	(47)	(47)	(45)	(45)
Pheochromocytoma Benign		1 (2%)			
Pheochromocytoma Complex	1 (2%)				
Pheochromocytoma Malignant				1 (2%)	
Islets, Pancreatic	(43)	(46)	(47)	(48)	(45)
Parathyroid Gland	(39)	(40)	(46)	(45)	(41)
Pituitary Gland	(43)	(47)	(43)	(45)	(45)
Pars Distalis, Adenoma	2 (5%)	1 (2%)		2 (4%)	
Thyroid Gland	(44)	(46)	(46)	(47)	(45)
GENERAL BODY SYSTEM					
Tissue NOS	(1)	(0)	(0)	(0)	(0)
GENITAL SYSTEM					
Clitoral Gland	(41)	(47)	(47)	(48)	(44)
Schwannoma Malignant, Metastatic, Skin	1 (2%)				
Squamous Cell Carcinoma, Metastatic, Vagina	1 (2%)				
Ovary	(44)	(46)	(47)	(47)	(45)
Granulosa Cell Tumor Benign	2 (5%)	1 (2%)			

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Granulosa Cell Tumor Malignant	1 (2%)	2 (4%)			
Tubulostromal Adenoma	2 (5%)	1 (2%)			
Uterus	(45)	(47)	(47)	(48)	(45)
Adenocarcinoma	2 (4%)				
Hemangioma		1 (2%)			
Hemangiosarcoma	1 (2%)	1 (2%)			
Polyp Stromal	4 (9%)	3 (6%)		1 (2%)	1 (2%)
Sarcoma Stromal	2 (4%)				
Endometrium, Adenoma	1 (2%)		1 (2%)		
Vagina	(1)	(0)	(0)	(0)	(0)
Squamous Cell Carcinoma	1 (100%)				

HEMATOPOIETIC SYSTEM

Bone Marrow	(43)	(45)	(47)	(47)	(46)
Hemangiosarcoma					1 (2%)
Hemangiosarcoma, Metastatic, Liver			1 (2%)		
Lymph Node	(12)	(8)	(5)	(2)	(8)
Lumbar, Squamous Cell Carcinoma, Metastatic, Vagina	1 (8%)				
Pancreatic, Fibrous Histiocytoma					1 (13%)
Renal, Fibrous Histiocytoma					1 (13%)
Lymph Node, Mandibular	(43)	(47)	(47)	(48)	(46)
Lymph Node, Mesenteric	(43)	(47)	(46)	(46)	(43)
Fibrous Histiocytoma					1 (2%)
Spleen	(45)	(47)	(47)	(47)	(46)
Fibrous Histiocytoma					1 (2%)
Hemangiosarcoma	1 (2%)	1 (2%)			1 (2%)
Thymus	(37)	(43)	(45)	(44)	(43)

INTEGUMENTARY SYSTEM

Mammary Gland	(45)	(47)	(47)	(48)	(45)
Adenoacanthoma	8 (18%)	1 (2%)			
Adenocarcinoma	11 (24%)	9 (19%)	2 (4%)	1 (2%)	1 (2%)

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Skin	(45)	(47)	(47)	(48)	(45)
Squamous Cell Carcinoma		1 (2%)			
Squamous Cell Papilloma		1 (2%)	1 (2%)		
Ear, Basosquamous Tumor Malignant	1 (2%)				
Subcutaneous Tissue, Fibrosarcoma	8 (18%)	2 (4%)	2 (4%)		
Subcutaneous Tissue, Fibrosarcoma, Multiple	1 (2%)			1 (2%)	
Subcutaneous Tissue, Fibrous Histiocytoma		1 (2%)			
Subcutaneous Tissue, Sarcoma	3 (7%)	3 (6%)	1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant	1 (2%)	1 (2%)	1 (2%)		
MUSCULOSKELETAL SYSTEM					
Bone	(1)	(2)	(1)	(0)	(0)
Cranium, Rhabdomyosarcoma, Metastatic, Skeletal Muscle		1 (50%)			
Vertebra, Osteosarcoma	1 (100%)				
Bone, Femur	(48)	(48)	(48)	(48)	(46)
Skeletal Muscle	(45)	(47)	(47)	(48)	(46)
Fibrosarcoma, Metastatic, Skin	1 (2%)				
Rhabdomyosarcoma		1 (2%)			
Sarcoma, Metastatic, Skin	1 (2%)				
NERVOUS SYSTEM					
Brain, Brain Stem	(44)	(45)	(47)	(47)	(45)
Brain, Cerebellum	(44)	(45)	(47)	(47)	(45)
Brain, Cerebrum	(44)	(45)	(47)	(47)	(45)
Peripheral Nerve, Sciatic	(44)	(45)	(47)	(47)	(45)
Spinal Cord, Cervical	(43)	(45)	(47)	(44)	(45)
Spinal Cord, Lumbar	(43)	(45)	(47)	(45)	(45)
Spinal Cord, Thoracic	(43)	(45)	(47)	(44)	(45)
RESPIRATORY SYSTEM					

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CAS Number: 5694-00-8

First Dose M/F: 06/02/05 / 06/02/05

Species/Strain: MICE/B6C3F1/NCTR

Lab: NCTR

C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Lung	(44)	(47)	(47)	(48)	(46)
Alveolar/Bronchiolar Adenoma	7 (16%)	7 (15%)	3 (6%)	5 (10%)	3 (7%)
Alveolar/Bronchiolar Adenoma, Multiple	2 (5%)				
Alveolar/Bronchiolar Carcinoma	2 (5%)	1 (2%)		1 (2%)	1 (2%)
Fibrosarcoma, Metastatic, Skin	1 (2%)				
Granular Cell Tumor Malignant, Metastatic, Ovary	1 (2%)				
Osteosarcoma, Metastatic, Bone	1 (2%)				
Nose	(45)	(46)	(47)	(46)	(46)
Rhabdomyosarcoma, Metastatic, Skeletal Muscle		1 (2%)			
Trachea	(43)	(46)	(46)	(47)	(45)
SPECIAL SENSES SYSTEM					
Eye	(43)	(44)	(47)	(44)	(45)
Rhabdomyosarcoma, Metastatic, Skeletal Muscle		1 (2%)			
Harderian Gland	(46)	(46)	(47)	(47)	(45)
Adenocarcinoma			1 (2%)		
Adenoma	27 (59%)	17 (37%)	17 (36%)	18 (38%)	2 (4%)
Bilateral, Adenoma	13 (28%)	7 (15%)	3 (6%)	1 (2%)	
URINARY SYSTEM					
Kidney	(43)	(46)	(47)	(47)	(46)
Urinary Bladder	(42)	(46)	(47)	(46)	(45)
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				

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

* Number of animals with any tissue examined microscopically

Experiment Number: 20314 - 04

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

Date Report Requested: 12/17/2014

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 06/02/05 / 06/02/05

Species/Strain: MICE/B6C3F1/NCTR

Lab: NCTR

C57BL/6N XC3H/HEN MTV-NCTR MICE FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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SYSTEMIC LESIONS

Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(47)
Histiocytic Sarcoma	4 (8%)	1 (2%)	3 (6%)	3 (6%)	2 (4%)
Leukemia					1 (2%)
Lymphoma Malignant	6 (13%)	5 (10%)	7 (15%)	5 (10%)	8 (17%)

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

* Number of animals with any tissue examined microscopically

Experiment Number: 20314 - 04

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

Date Report Requested: 12/17/2014

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 06/02/05 / 06/02/05

Species/Strain: MICE/B6C3F1/NCTR

Lab: NCTR

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

Total Animals with Primary Neoplasms (b)	44	41	34	35	23
Total Primary Neoplasms	128	80	50	43	33
Total Animals with Benign Neoplasms	42	35	27	26	10
Total Benign Neoplasms	72	47	30	30	11
Total Animals with Malignant Neoplasms	37	25	19	13	15
Total Malignant Neoplasms	56	33	20	13	22
Total Animals with Metastatic Neoplasms	8	1	1		
Total Metastatic Neoplasms	10	3	1		
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