

**TDMS No.** 20313 - 05

**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:** 14:38:46

**Route:** DOSED WATER

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

**First Dose M/F:** 05/23/05 / 05/23/05

**Species/Strain:** RATS/F 344/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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FISCHER 344 RATS-NCTR RATS 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	27	23	20	20	18
Natural Death	4		2	4	6
Survivors					
Moribund Sacrifice	7	7	7	9	5
Natural Death	1	2		1	2
Terminal Sacrifice	9	16	19	14	17
Animals Examined Microscopically	48	48	48	48	48

ALIMENTARY SYSTEM

Intestine Large, Cecum	(47)	(48)	(47)	(48)	(45)
Intestine Large, Colon	(48)	(48)	(47)	(47)	(45)
Intestine Small, Duodenum	(48)	(48)	(47)	(48)	(45)
Intestine Small, Ileum	(47)	(48)	(47)	(47)	(44)
Intestine Small, Jejunum	(45)	(48)	(46)	(46)	(43)
Carcinoma	1 (2%)				
Liver	(48)	(48)	(48)	(48)	(48)
Hepatocellular Adenoma	1 (2%)	2 (4%)	3 (6%)		2 (4%)
Hepatocellular Adenoma, Multiple			1 (2%)		
Hepatocellular Carcinoma			1 (2%)		
Mesentery	(4)	(7)	(7)	(4)	(2)
Carcinoma, Metastatic, Intestine Small, Jejunum	1 (25%)				
Oral Mucosa	(3)	(6)	(2)	(0)	(0)
Squamous Cell Carcinoma		1 (17%)	1 (50%)		
Squamous Cell Papilloma	1 (33%)	3 (50%)			
Pancreas	(48)	(48)	(48)	(48)	(46)
Acinar Cell, Adenoma	2 (4%)				
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Stomach, Forestomach	(48)	(48)	(47)	(48)	(47)
Squamous Cell Papilloma				1 (2%)	
Stomach, Glandular	(48)	(48)	(47)	(48)	(47)

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Tongue	(1)	(2)	(0)	(1)	(3)
Squamous Cell Carcinoma	1 (100%)				
Squamous Cell Papilloma		1 (50%)		1 (100%)	1 (33%)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(48)	(48)	(48)	(48)
Heart	(48)	(48)	(48)	(48)	(48)
Schwannoma Malignant	6 (13%)	4 (8%)	3 (6%)	2 (4%)	1 (2%)

## ENDOCRINE SYSTEM

Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Carcinoma			1 (2%)		
Adrenal Medulla	(47)	(48)	(47)	(48)	(48)
Pheochromocytoma Benign		9 (19%)	5 (11%)	4 (8%)	6 (13%)
Pheochromocytoma Malignant	2 (4%)	2 (4%)	6 (13%)	3 (6%)	
Bilateral, Pheochromocytoma Benign	1 (2%)	1 (2%)			2 (4%)
Bilateral, Pheochromocytoma Malignant	1 (2%)				
Islets, Pancreatic	(48)	(48)	(48)	(48)	(46)
Adenoma	6 (13%)	1 (2%)	4 (8%)	2 (4%)	1 (2%)
Carcinoma		1 (2%)			
Parathyroid Gland	(44)	(47)	(47)	(48)	(46)
Adenoma	1 (2%)				
Pituitary Gland	(47)	(48)	(47)	(48)	(48)
Pars Distalis, Adenoma	28 (60%)	31 (65%)	24 (51%)	31 (65%)	21 (44%)
Thyroid Gland	(48)	(48)	(47)	(48)	(47)
C-cell, Adenoma	3 (6%)	2 (4%)	5 (11%)		2 (4%)
C-cell, Carcinoma	1 (2%)			1 (2%)	
Follicular Cell, Adenoma	3 (6%)	1 (2%)	1 (2%)	1 (2%)	
Follicular Cell, Carcinoma	6 (13%)	6 (13%)	3 (6%)	2 (4%)	1 (2%)

## GENERAL BODY SYSTEM

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Peritoneum	(2)	(0)	(0)	(0)	(0)
Tissue NOS	(1)	(1)	(1)	(1)	(0)
Abdominal, Carcinoma, Metastatic, Adrenal Cortex			1 (100%)		

## GENITAL SYSTEM

Epididymis	(48)	(48)	(48)	(48)	(48)
Penis	(1)	(1)	(0)	(0)	(1)
Preputial Gland	(48)	(48)	(48)	(47)	(48)
Adenoma	4 (8%)	1 (2%)	3 (6%)	3 (6%)	
Adenoma, Multiple			1 (2%)		
Carcinoma	2 (4%)	4 (8%)	4 (8%)	3 (6%)	7 (15%)
Squamous Cell Carcinoma		5 (10%)	1 (2%)	1 (2%)	4 (8%)
Squamous Cell Papilloma		2 (4%)	1 (2%)		1 (2%)
Prostate	(48)	(48)	(48)	(48)	(47)
Seminal Vesicle	(48)	(48)	(47)	(48)	(48)
Testes	(48)	(48)	(48)	(48)	(48)
Bilateral, Interstitial Cell, Adenoma	24 (50%)	23 (48%)	26 (54%)	19 (40%)	23 (48%)
Interstitial Cell, Adenoma	9 (19%)	14 (29%)	10 (21%)	13 (27%)	13 (27%)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(48)	(48)	(48)	(48)	(47)
Lymph Node	(24)	(21)	(22)	(17)	(19)
Lymph Node, Mandibular	(48)	(48)	(48)	(46)	(48)
Adenocarcinoma, Metastatic, Harderian Gland		1 (2%)			
Basal Cell Carcinoma, Metastatic, Skin			1 (2%)		
Lymph Node, Mesenteric	(48)	(48)	(48)	(47)	(47)
Spleen	(48)	(48)	(47)	(48)	(48)
Hemangiosarcoma	1 (2%)				
Sarcoma					1 (2%)
Thymus	(47)	(48)	(46)	(47)	(45)

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## INTEGUMENTARY SYSTEM

Mammary Gland	(44)	(43)	(43)	(44)	(44)
Fibroadenoma	3 (7%)	1 (2%)	1 (2%)	5 (11%)	2 (5%)
Skin	(48)	(48)	(48)	(48)	(48)
Basal Cell Carcinoma	2 (4%)	3 (6%)	2 (4%)		
Keratoacanthoma	1 (2%)	2 (4%)	4 (8%)	1 (2%)	1 (2%)
Papilloma			1 (2%)		
Squamous Cell Carcinoma	1 (2%)	1 (2%)		1 (2%)	
Squamous Cell Papilloma	1 (2%)	1 (2%)			
Ear, Neural Crest Tumor, Benign					1 (2%)
Ear, Neural Crest Tumor, Malignant				2 (4%)	
Sebaceous Gland, Adenoma			2 (4%)	2 (4%)	1 (2%)
Subcutaneous Tissue, Fibroma	1 (2%)	3 (6%)	5 (10%)	5 (10%)	3 (6%)
Subcutaneous Tissue, Hemangiosarcoma	1 (2%)	1 (2%)			
Subcutaneous Tissue, Lipoma	1 (2%)		1 (2%)		1 (2%)
Subcutaneous Tissue, Osteosarcoma				1 (2%)	
Subcutaneous Tissue, Sarcoma			2 (4%)		
Subcutaneous Tissue, Schwannoma Malignant			1 (2%)		

## MUSCULOSKELETAL SYSTEM

Bone	(1)	(1)	(0)	(1)	(1)
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)

## NERVOUS SYSTEM

Brain, Brain Stem	(48)	(48)	(48)	(48)	(48)
Astrocytoma Nos					1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site		1 (2%)			
Brain, Cerebellum	(48)	(48)	(48)	(48)	(48)
Astrocytoma Nos	2 (4%)				
Osteosarcoma, Metastatic, Skin				1 (2%)	

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Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Glioma Nos			1 (2%)		
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Spinal Cord, Cervical	(48)	(48)	(47)	(48)	(47)
Spinal Cord, Lumbar	(48)	(48)	(47)	(48)	(47)
Spinal Cord, Thoracic	(48)	(48)	(47)	(48)	(47)

## RESPIRATORY SYSTEM

Lung	(48)	(48)	(48)	(48)	(48)
Alveolar/Bronchiolar Adenoma		1 (2%)	1 (2%)		1 (2%)
Carcinoma, Metastatic, Intestine Small, Jejunum	1 (2%)				
Carcinoma, Metastatic, Preputial Gland					1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)		
Neural Crest Tumor, Malignant, Metastatic, Skin				1 (2%)	
Nose	(48)	(48)	(48)	(48)	(48)
Trachea	(48)	(48)	(48)	(48)	(48)

## SPECIAL SENSES SYSTEM

Eye	(45)	(46)	(47)	(47)	(44)
Harderian Gland	(48)	(48)	(48)	(48)	(48)
Adenocarcinoma		1 (2%)			
Zymbal's Gland	(1)	(1)	(0)	(2)	(1)
Adenoma				1 (50%)	
Carcinoma	1 (100%)	1 (100%)		1 (50%)	
Squamous Cell Carcinoma					1 (100%)

## URINARY SYSTEM

Kidney	(48)	(48)	(48)	(48)	(47)
Renal Tubule, Carcinoma	1 (2%)				
Transitional Epithelium, Carcinoma					1 (2%)

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Urethra	(1)	(0)	(1)	(0)	(0)
Urinary Bladder	(48)	(48)	(48)	(48)	(46)

SYSTEMIC LESIONS

Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma		1 (2%)	1 (2%)	1 (2%)	
Leukemia Mononuclear	28 (58%)	32 (67%)	23 (48%)	22 (46%)	31 (65%)
Lymphoma Malignant		1 (2%)		1 (2%)	
Mesothelioma Malignant	8 (17%)	5 (10%)	1 (2%)	2 (4%)	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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**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	47	48	47	46	46
Total Primary Neoplasms	155	168	150	132	132
Total Animals with Benign Neoplasms	46	46	43	43	44
Total Benign Neoplasms	90	99	99	89	81
Total Animals with Malignant Neoplasms	41	44	35	35	38
Total Malignant Neoplasms	63	69	50	43	50
Total Animals with Metastatic Neoplasms	1	2	3	2	1
Total Metastatic Neoplasms	2	2	3	2	1
Total Animals with Malignant Neoplasms Uncertain Primary Site		1			
Total Animals with Neoplasms Uncertain- Benign or Malignant	2		1		1
Total Uncertain Neoplasms	2		1		1

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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**

<b>Animals Initially In Study</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>
<b>Early Deaths</b>					
<b>Moribund Sacrifice</b>	<b>23</b>	<b>14</b>	<b>17</b>	<b>13</b>	<b>8</b>
<b>Natural Death</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>Survivors</b>					
<b>Moribund Sacrifice</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>5</b>	<b>2</b>
<b>Natural Death</b>			<b>1</b>		<b>1</b>
<b>Terminal Sacrifice</b>	<b>13</b>	<b>23</b>	<b>21</b>	<b>28</b>	<b>34</b>
<b>Animals Examined Microscopically</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>

ALIMENTARY SYSTEM

Esophagus	(48)	(48)	(48)	(48)	(48)
Intestine Large, Cecum	(47)	(46)	(48)	(48)	(47)
Intestine Large, Colon	(47)	(47)	(48)	(48)	(46)
Intestine Small, Duodenum	(47)	(46)	(48)	(48)	(48)
Intestine Small, Ileum	(46)	(46)	(48)	(48)	(47)
Intestine Small, Jejunum	(46)	(45)	(48)	(48)	(46)
Liver	(48)	(48)	(48)	(48)	(48)
Hepatocellular Adenoma	3 (6%)	1 (2%)	1 (2%)		
Sarcoma Stromal, Metastatic, Uterus				1 (2%)	
Mesentery	(5)	(4)	(10)	(9)	(7)
Oral Mucosa	(7)	(3)	(2)	(2)	(0)
Squamous Cell Carcinoma	1 (14%)				
Squamous Cell Papilloma	4 (57%)	2 (67%)	1 (50%)	2 (100%)	
Pancreas	(48)	(47)	(48)	(48)	(48)
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Stomach, Forestomach	(48)	(48)	(48)	(48)	(48)
Squamous Cell Papilloma			2 (4%)		
Stomach, Glandular	(48)	(48)	(48)	(48)	(48)
Tongue	(3)	(1)	(0)	(0)	(0)
Squamous Cell Carcinoma	1 (33%)				
Squamous Cell Papilloma	1 (33%)	1 (100%)			

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## CARDIOVASCULAR SYSTEM

Heart	(48)	(48)	(48)	(48)	(48)
Schwannoma Malignant	4 (8%)	2 (4%)		1 (2%)	2 (4%)

## ENDOCRINE SYSTEM

Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Adenoma		1 (2%)		1 (2%)	1 (2%)
Adrenal Medulla	(48)	(47)	(48)	(48)	(48)
Pheochromocytoma Complex	1 (2%)				
Pheochromocytoma Malignant	1 (2%)	1 (2%)	1 (2%)	3 (6%)	2 (4%)
Bilateral, Pheochromocytoma Malignant	1 (2%)			1 (2%)	
Islets, Pancreatic	(48)	(47)	(48)	(48)	(48)
Adenoma				1 (2%)	1 (2%)
Parathyroid Gland	(46)	(46)	(45)	(47)	(47)
Adenoma				1 (2%)	
Pituitary Gland	(48)	(48)	(47)	(48)	(48)
Pars Distalis, Adenoma	28 (58%)	29 (60%)	33 (70%)	35 (73%)	37 (77%)
Pars Distalis, Carcinoma		1 (2%)			
Thyroid Gland	(47)	(48)	(48)	(48)	(48)
C-cell, Adenoma	4 (9%)	3 (6%)	4 (8%)	4 (8%)	1 (2%)
C-cell, Carcinoma			2 (4%)		1 (2%)
Follicular Cell, Adenoma	2 (4%)		1 (2%)		
Follicular Cell, Carcinoma	2 (4%)	3 (6%)	1 (2%)		

## GENERAL BODY SYSTEM

Tissue NOS	(1)	(0)	(1)	(0)	(0)
Sarcoma	1 (100%)				

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## GENITAL SYSTEM

Clitoral Gland	(47)	(48)	(47)	(48)	(48)
Adenoma	3 (6%)	8 (17%)	5 (11%)	7 (15%)	9 (19%)
Carcinoma	8 (17%)	3 (6%)	12 (26%)	5 (10%)	1 (2%)
Squamous Cell Carcinoma		1 (2%)			
Squamous Cell Papilloma	3 (6%)		1 (2%)		
Bilateral, Carcinoma				1 (2%)	
Ovary	(48)	(48)	(48)	(48)	(48)
Granulosa Cell Tumor Benign					2 (4%)
Uterus	(48)	(48)	(48)	(48)	(48)
Polyp Stromal	12 (25%)	10 (21%)	8 (17%)	12 (25%)	9 (19%)
Polyp Stromal, Multiple			1 (2%)		
Sarcoma Stromal	4 (8%)		3 (6%)	4 (8%)	
Endometrium, Adenoma				1 (2%)	
Vagina	(5)	(4)	(1)	(4)	(1)
Sarcoma Stromal, Metastatic, Uterus	1 (20%)				

## HEMATOPOIETIC SYSTEM

Bone Marrow	(48)	(47)	(48)	(48)	(48)
Lymph Node	(9)	(6)	(10)	(9)	(7)
Lumbar, Sarcoma, Metastatic, Tissue Nos	1 (11%)				
Lymph Node, Mandibular	(48)	(48)	(48)	(48)	(48)
Lymph Node, Mesenteric	(48)	(47)	(48)	(47)	(48)
Spleen	(48)	(48)	(48)	(48)	(48)
Thymus	(46)	(45)	(45)	(47)	(47)

## INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(47)	(46)	(48)	(48)
Adenocarcinoma	3 (6%)	4 (9%)	1 (2%)	1 (2%)	3 (6%)
Fibroadenoma	31 (65%)	22 (47%)	24 (52%)	18 (38%)	16 (33%)
Skin	(48)	(48)	(48)	(48)	(48)

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Basal Cell Carcinoma	1 (2%)				2 (4%)
Keratoacanthoma			1 (2%)		
Squamous Cell Papilloma				1 (2%)	
Ear, Neural Crest Tumor, Malignant		1 (2%)			
Subcutaneous Tissue, Fibroma	3 (6%)	1 (2%)			1 (2%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)				
Subcutaneous Tissue, Sarcoma	1 (2%)				
Subcutaneous Tissue, Sarcoma, Metastatic, Tissue Nos	1 (2%)				
Tail, Squamous Cell Papilloma	1 (2%)				

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MUSCULOSKELETAL SYSTEM

Bone	(1)	(0)	(0)	(0)	(0)
Cranium, Osteoma	1 (100%)				
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)
Rhabdomyosarcoma		1 (2%)			
Sarcoma, Metastatic, Tissue Nos	1 (2%)				
Subcutaneous Tissue, Schwannoma Malignant				1 (2%)	

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NERVOUS SYSTEM

Brain, Brain Stem	(48)	(48)	(48)	(48)	(48)
Brain, Cerebellum	(48)	(48)	(48)	(48)	(48)
Astrocytoma Nos		1 (2%)			
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Astrocytoma Nos		2 (4%)		1 (2%)	
Meninges, Granular Cell Tumor Nos	1 (2%)				
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Spinal Cord	(0)	(1)	(0)	(0)	(0)
Spinal Cord, Cervical	(48)	(48)	(48)	(48)	(48)
Spinal Cord, Lumbar	(48)	(48)	(48)	(48)	(48)
Spinal Cord, Thoracic	(48)	(48)	(48)	(48)	(48)

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

Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:46

Route: DOSED WATER

CAS Number: 79-06-1

First Dose M/F: 05/23/05 / 05/23/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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## RESPIRATORY SYSTEM

Lung	(48)	(48)	(48)	(48)	(48)
Alveolar/Bronchiolar Adenoma			1 (2%)		2 (4%)
Alveolar/Bronchiolar Adenoma, Multiple					1 (2%)
Carcinoma, Metastatic, Kidney			1 (2%)		
Sarcoma Stromal, Metastatic, Uterus				1 (2%)	
Nose	(48)	(48)	(48)	(48)	(47)

## SPECIAL SENSES SYSTEM

Eye	(46)	(45)	(47)	(48)	(45)
Lids, Melanoma Malignant		1 (2%)			
Harderian Gland	(48)	(48)	(48)	(48)	(48)
Lacrimal Gland	(1)	(0)	(1)	(1)	(0)
Zymbal's Gland	(3)	(0)	(0)	(1)	(0)
Carcinoma				1 (100%)	
Squamous Cell Carcinoma	2 (67%)				

## URINARY SYSTEM

Kidney	(48)	(48)	(48)	(48)	(48)
Renal Tubule, Adenoma					1 (2%)
Renal Tubule, Carcinoma			1 (2%)		
Transitional Epithelium, Carcinoma	1 (2%)				
Urinary Bladder	(47)	(48)	(48)	(48)	(48)
Transitional Epithelium, Carcinoma	1 (2%)				

## SYSTEMIC LESIONS

Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	2 (4%)			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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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Leukemia Mononuclear	17 (35%)	15 (31%)	19 (40%)	19 (40%)	10 (21%)
Lymphoma Malignant	1 (2%)	1 (2%)		1 (2%)	
Mesothelioma Malignant					1 (2%)

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\* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:46

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Lab: NCTR

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FISCHER 344 RATS-NCTR RATS 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	45	48	48	46
Total Primary Neoplasms	151	115	123	123	103
Total Animals with Benign Neoplasms	38	37	42	43	42
Total Benign Neoplasms	96	78	83	83	81
Total Animals with Malignant Neoplasms	36	27	32	28	20
Total Malignant Neoplasms	54	34	40	39	22
Total Animals with Metastatic Neoplasms	2		1	2	
Total Metastatic Neoplasms	4		1	2	
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant	1	3		1	
Total Uncertain Neoplasms	1	3		1	

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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