

Experiment Number: 20313 - 01

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 09/21/2016

Test Type: 90-DAY

Acrylamide

Time Report Requested: 15:04:22

Route: DOSED WATER

CAS Number: 79-06-1

First Dose M/F: 07/12/04 / 07/12/04

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

**NTP Study Number:** C20313  
**Lock Date:** 03/06/2013  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

Test Type: 90-DAY

Acrylamide

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
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**Disposition Summary**

Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Terminal Sacrifice	8	8	8	8	8	8
Animals Examined Microscopically	8	8	8	8	8	8

## ALIMENTARY SYSTEM

Esophagus	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Rectum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Duodenum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Ileum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Acute	1 [3.0]					
Liver	(8)	(0)	(1)	(0)	(1)	(8)
Hematopoietic Cell Proliferation						1 [1.0]
Necrosis, Focal	1 [2.0]					
Left Lateral Lobe, Developmental Malformation			1		1	1
Pancreas	(8)	(0)	(0)	(0)	(0)	(8)
Salivary Glands	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Forestomach	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Glandular	(8)	(0)	(0)	(0)	(0)	(8)
Tongue	(8)	(0)	(0)	(0)	(0)	(8)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Myocardium, Inflammation, Focal	6 [2.0]					5 [1.0]

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pars Distalis, Cyst						1
Thyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 [1.0]
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(8)	(0)	(8)	(8)	(8)	(8)
Exfoliated Germ Cell				2 [1.0]	8 [1.1]	8 [3.3]
Hypospermia						8 [3.3]
Preputial Gland	(8)	(0)	(1)	(0)	(1)	(8)
Inflammation, Suppurative	3 [2.0]		1 [3.0]			4 [2.5]
Inflammation, Chronic	4 [2.0]				1 [4.0]	2 [1.5]
Prostate	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Suppurative						2 [2.5]
Inflammation, Chronic	2 [2.0]					1 [2.0]
Seminal Vesicle	(8)	(0)	(0)	(0)	(0)	(8)
Decreased Secretory Fluid	1					
Dilatation	1 [2.0]					
Testes	(8)	(0)	(8)	(8)	(8)	(8)
Germinal Epithelium, Degeneration				5 [1.0]	8 [1.0]	8 [2.8]
<b>HEMATOPOIETIC SYSTEM</b>						

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FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Bone Marrow	(8)	(0)	(0)	(0)	(8)	(8)
Erythroid Cell, Hyperplasia						8 [2.0]
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Hyperplasia, Lymphoid	3 [2.3]					
Spleen	(8)	(0)	(0)	(0)	(8)	(8)
Congestion						7 [2.7]
Pigmentation						8 [2.8]
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
Hemorrhage	1 [2.0]					
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						6 [1.8]
<b>NERVOUS SYSTEM</b>						
Brain, Brain Stem	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebellum	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebrum	(8)	(0)	(0)	(0)	(0)	(8)
Peripheral Nerve	(8)	(0)	(0)	(0)	(8)	(8)
Axon, Degeneration						8 [3.0]
Schwann Cell, Degeneration						8 [3.0]
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(0)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(0)	(8)
Axon, Degeneration						8 [1.9]
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(0)	(8)

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<b>RESPIRATORY SYSTEM</b>						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Artery, Mineralization	3 [1.3]					
Nose	(8)	(0)	(0)	(0)	(0)	(8)
Goblet Cell, Hyperplasia	4 [1.5]					5 [1.6]
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 [2.0]
<b>URINARY SYSTEM</b>						
Kidney	(8)	(0)	(0)	(1)	(0)	(8)
Hydronephrosis	2 [2.0]			1 [2.0]		
Cortex, Inflammation, Chronic						1 [1.0]
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation						8 [3.1]

\*\*\* END OF MALE \*\*\*

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FISCHER 344 RATS-NCTR RATS FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
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**Disposition Summary**

Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Terminal Sacrifice	8	8	8	8	8	8
Animals Examined Microscopically	8	3	3	1	8	8

## ALIMENTARY SYSTEM

Esophagus	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Rectum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Duodenum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Ileum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(8)	(0)	(0)	(0)	(0)	(8)
Liver	(8)	(1)	(3)	(0)	(0)	(8)
Granuloma	1 [2.0]					
Necrosis, Focal	2 [1.5]					
Left Lateral Lobe, Developmental Malformation	2	1	3			3
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis		1 [3.0]				
Pancreas	(8)	(0)	(0)	(0)	(0)	(8)
Salivary Glands	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Forestomach	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Glandular	(8)	(0)	(0)	(0)	(0)	(8)
Tongue	(8)	(0)	(0)	(0)	(0)	(8)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Artery, Inflammation	1 [3.0]					
Myocardium, Inflammation, Focal	5 [1.0]					2 [1.0]

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

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## ENDOCRINE SYSTEM

Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Thyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(8)	(0)	(1)	(0)	(0)	(8)
Inflammation, Suppurative	3 [2.7]					
Inflammation, Chronic	5 [2.2]		1 [3.0]			6 [1.8]
Ovary	(8)	(0)	(0)	(0)	(8)	(8)
Corpus Luteum, Cyst						1
Corpus Luteum, Dysgenesis						8 [2.5]
Uterus	(8)	(1)	(0)	(1)	(8)	(8)
Anestrus						8
Dilatation		1 [3.0]		1 [3.0]		

## HEMATOPOIETIC SYSTEM

Bone Marrow	(8)	(0)	(0)	(0)	(8)	(8)
Erythroid Cell, Hyperplasia						8 [2.0]
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Spleen	(8)	(0)	(0)	(0)	(8)	(8)

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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Congestion						8 [2.8]
Pigmentation						8 [2.8]
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						7 [2.0]
<b>NERVOUS SYSTEM</b>						
Brain, Brain Stem	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebellum	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebrum	(8)	(0)	(0)	(0)	(0)	(8)
Peripheral Nerve	(8)	(0)	(0)	(0)	(8)	(8)
Axon, Degeneration						8 [3.0]
Schwann Cell, Degeneration						8 [3.0]
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(4)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(4)	(8)
Cyst Epithelial Inclusion						1
Axon, Degeneration						8 [1.8]
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(4)	(8)
Axon, Degeneration						2 [1.0]
<b>RESPIRATORY SYSTEM</b>						
Lung	(8)	(0)	(0)	(0)	(0)	(8)

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)



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FISCHER 344 RATS-NCTR RATS FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Artery, Mineralization	1 [1.0]					
Nose	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation	2 [2.0]					
Goblet Cell, Hyperplasia	4 [1.3]					5 [1.8]
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic	2 [1.5]					1 [1.0]
<b>URINARY SYSTEM</b>						
Kidney	(8)	(0)	(0)	(0)	(0)	(8)
Cortex, Inflammation, Chronic	1 [1.0]					1 [1.0]
Cortex, Mineralization	8 [2.8]					
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation						6 [2.3]

\*\*\* END OF REPORT \*\*\*

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

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