

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

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE | 0.70 ACRYL | 0.35 ACRYL | 0.175 ACRYL | 0.0875 ACRYL | CONTROL WATER |
|---------------------------------|------------|------------|-------------|--------------|---------------|
|---------------------------------|------------|------------|-------------|--------------|---------------|

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) |

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

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE | 0.70 ACRYL | 0.35 ACRYL | 0.175 ACRYL | 0.0875 ACRYL | CONTROL WATER |
|---------------------------------|------------|------------|-------------|--------------|---------------|
|---------------------------------|------------|------------|-------------|--------------|---------------|

| | | | | | |
|-------------------------|----------|---------|-----|----------|---------|
| 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

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

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Acrylamide

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Species/Strain: RATS/F 344/NCTR

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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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| | | | | | |
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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 |

*** 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 | | | | | |
| Moribund Sacrifice | 23 | 14 | 17 | 13 | 8 |
| Natural Death | 2 | 5 | 2 | 2 | 3 |
| Survivors | | | | | |
| Moribund Sacrifice | 10 | 6 | 7 | 5 | 2 |
| Natural Death | | | 1 | | 1 |
| Terminal Sacrifice | 13 | 23 | 21 | 28 | 34 |
| Animals Examined Microscopically | 48 | 48 | 48 | 48 | 48 |

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) |

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 |
|-----------------------------------|------------|------------|-------------|--------------|---------------|

| | | | | | |
|--|--------|--------|--------|--------|--------|
| 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%) | | | | |

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%) | |

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) |

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Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:46

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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 |
|-----------------------------------|------------|------------|-------------|--------------|---------------|
|-----------------------------------|------------|------------|-------------|--------------|---------------|

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

Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:46

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

Species/Strain: RATS/F 344/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 |
|-----------------------------------|------------|------------|-------------|--------------|---------------|
| 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

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 |
|-----------------------------------|------------|------------|-------------|--------------|---------------|

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 | |

*** 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