

Experiment Number: 10472 - 03

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

Date Report Requested: 05/16/2016

Test Type: CHRONIC

p-Chloro-a,a,a-trifluorotoluene

Time Report Requested: 11:15:09

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-56-6

First Dose M/F: 01/17/11 / 01/17/11

Species/Strain: RATS/HSD

Lab: BNW

F2_HSD Rats

NTP Study Number: C10472B
Lock Date: 08/29/2013
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: 03/08/2016

Test Type: CHRONIC

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First Dose M/F: 01/17/11 / 01/17/11

Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS MALE	Control	100 ppm	300 ppm	1000 ppm
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	16	19	21	27
Natural Death	9	10	14	18
Survivors				
Terminal Sacrifice	25	21	15	5
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Leiomyoma	1 (2%)			
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Adenocarcinoma		1 (2%)		
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Adenocarcinoma		2 (4%)	1 (2%)	
Leiomyosarcoma	1 (2%)			
Liver	(50)	(50)	(50)	(50)
Hepatocellular Adenoma		1 (2%)		
Hepatocellular Carcinoma		2 (4%)		1 (2%)
Schwannoma Malignant, Metastatic, Heart				1 (2%)
Mesentery	(2)	(2)	(1)	(1)
Pancreas	(50)	(50)	(50)	(50)
Acinus, Adenoma		1 (2%)	1 (2%)	1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Carcinoma		1 (2%)		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma		2 (4%)		
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(0)	(1)	(0)	(0)

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

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Species/Strain: RATS/HSD

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Harlan Sprague Dawley RATS MALE	Control	100 ppm	300 ppm	1000 ppm
Tooth	(1)	(0)	(0)	(0)
Odontoma	1 (100%)			
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(50)	(49)	(50)
Heart	(50)	(50)	(50)	(50)
Sarcoma				1 (2%)
Endocardium, Schwannoma Malignant			1 (2%)	1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	1 (2%)		1 (2%)
Carcinoma			1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	8 (16%)	8 (16%)	12 (24%)	10 (20%)
Pheochromocytoma Malignant	2 (4%)		2 (4%)	2 (4%)
Bilateral, Pheochromocytoma Benign	4 (8%)	5 (10%)	4 (8%)	2 (4%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	8 (16%)	5 (10%)	2 (4%)	
Carcinoma		4 (8%)		1 (2%)
Parathyroid Gland	(48)	(48)	(48)	(46)
Adenoma				2 (4%)
Carcinoma, Metastatic, Thyroid Gland				1 (2%)
Pituitary Gland	(50)	(50)	(49)	(50)
Carcinoma, Metastatic, Zymbal'S Gland		1 (2%)		
Pars Distalis, Adenoma	11 (22%)	6 (12%)	7 (14%)	6 (12%)
Pars Intermedia, Adenoma				1 (2%)
Thyroid Gland	(50)	(49)	(49)	(50)
Bilateral, C-cell, Adenoma		1 (2%)	1 (2%)	1 (2%)
C-cell, Adenoma	2 (4%)	4 (8%)	2 (4%)	11 (22%)
C-cell, Carcinoma	1 (2%)		1 (2%)	1 (2%)
Follicular Cell, Adenoma			1 (2%)	1 (2%)

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

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Harlan Sprague Dawley RATS MALE

Control

100 ppm

300 ppm

1000 ppm

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(1)	(0)	(0)	(0)
Epididymis	(50)	(50)	(50)	(50)
Sarcoma	1 (2%)			
Preputial Gland	(50)	(50)	(50)	(50)
Carcinoma			1 (2%)	
Prostate	(50)	(50)	(50)	(50)
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Interstitial Cell, Adenoma		2 (4%)	2 (4%)	

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(7)	(7)	(10)	(4)
Lymph Node, Bronchial	(30)	(26)	(29)	(26)
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Lymph Node, Mediastinal	(50)	(49)	(50)	(50)
Lymph Node, Mesenteric	(49)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Thymus	(48)	(50)	(48)	(49)

INTEGUMENTARY SYSTEM

Mammary Gland	(43)	(38)	(38)	(37)
Adenoma		1 (3%)		
Fibroadenoma	2 (5%)	1 (3%)	2 (5%)	

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Harlan Sprague Dawley RATS MALE	Control	100 ppm	300 ppm	1000 ppm
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma			2 (4%)	
Keratoacanthoma	2 (4%)	2 (4%)	1 (2%)	3 (6%)
Keratoacanthoma, Multiple	1 (2%)		1 (2%)	
Squamous Cell Papilloma	1 (2%)	2 (4%)		1 (2%)
Sebaceous Gland, Adenoma	1 (2%)	2 (4%)	2 (4%)	
Subcutaneous Tissue, Fibroma		4 (8%)	2 (4%)	
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)	1 (2%)		
Subcutaneous Tissue, Hemangioma	1 (2%)		1 (2%)	
Subcutaneous Tissue, Lipoma	1 (2%)	1 (2%)	1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant			2 (4%)	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Osteosarcoma			1 (2%)	
Skeletal Muscle	(7)	(6)	(4)	(2)
Hemangiosarcoma		1 (17%)		
Schwannoma Malignant		1 (17%)		

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Glioma Malignant	2 (4%)	1 (2%)	1 (2%)	
Peripheral Nerve	(7)	(5)	(4)	(2)
Spinal Cord	(7)	(5)	(4)	(2)
Schwannoma Malignant, Metastatic, Skeletal Muscle		1 (20%)		

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma		2 (4%)		1 (2%)

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Alveolar/Bronchiolar Carcinoma				2 (4%)
Carcinoma, Metastatic, Lung	1 (2%)			
Carcinoma, Metastatic, Salivary Glands		1 (2%)		
Carcinoma, Metastatic, Zymbal'S Gland		1 (2%)		
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla			1 (2%)	
Artery, Schwannoma Malignant, Metastatic, Heart				1 (2%)
Mediastinum, Paraganglioma		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Iris, Leiomyoma	1 (2%)			
Harderian Gland	(50)	(50)	(50)	(50)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (2%)
Zymbal's Gland	(1)	(2)	(0)	(0)
Adenoma		1 (50%)		
Carcinoma	1 (100%)	1 (50%)		
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Lipoma			1 (2%)	
Renal Tubule, Adenoma			2 (4%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Urothelium, Papilloma			1 (2%)	

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* 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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Harlan Sprague Dawley RATS MALE	Control	100 ppm	300 ppm	1000 ppm
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma			1 (2%)	
Leukemia Granulocytic	1 (2%)			
Leukemia Mononuclear	3 (6%)	2 (4%)		1 (2%)
Lymphoma Malignant			1 (2%)	
Mesothelioma Malignant	1 (2%)		1 (2%)	

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* Number of animals with any tissue examined microscopically

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Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS MALE	Control	100 ppm	300 ppm	1000 ppm
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	37	41	39	35
Total Primary Neoplasms	62	70	62	51
Total Animals with Benign Neoplasms	30	32	32	30
Total Benign Neoplasms	48	53	48	41
Total Animals with Malignant Neoplasms	12	16	12	10
Total Malignant Neoplasms	14	17	14	10
Total Animals with Metastatic Neoplasms	1	3	1	3
Total Metastatic Neoplasms	1	4	1	4
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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Harlan Sprague Dawley RATS FEMALE	Control	100 ppm	300 ppm	1000 ppm
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Accidentally Killed		1		
Moribund Sacrifice	22	27	18	18
Natural Death	5	1	7	2
Survivors				
Natural Death	1			
Terminal Sacrifice	22	21	25	30
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(49)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Leiomyoma				1 (2%)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Cholangiocarcinoma		2 (4%)		
Hemangioma			1 (2%)	
Hemangiosarcoma				1 (2%)
Hepatocellular Adenoma	2 (4%)	2 (4%)	1 (2%)	4 (8%)
Hepatocellular Carcinoma			1 (2%)	
Mesentery	(1)	(1)	(1)	(2)
Adenocarcinoma, Metastatic, Uterus				1 (50%)
Schwannoma Malignant, Metastatic, Skeletal Muscle		1 (100%)		
Yolk Sac Carcinoma, Metastatic, Ovary			1 (100%)	
Pancreas	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Acinus, Adenoma		1 (2%)		1 (2%)

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Lab: BNW

Harlan Sprague Dawley RATS FEMALE	Control	100 ppm	300 ppm	1000 ppm
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tooth	(0)	(1)	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma		1 (2%)	2 (4%)	1 (2%)
Capsule, Schwannoma Malignant, Metastatic, Skeletal Muscle		1 (2%)		
Adrenal Medulla	(49)	(50)	(50)	(50)
Pheochromocytoma Benign		3 (6%)	4 (8%)	6 (12%)
Pheochromocytoma Malignant		1 (2%)		
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	1 (2%)		1 (2%)
Carcinoma	1 (2%)			
Parathyroid Gland	(45)	(44)	(48)	(42)
Adenoma			2 (4%)	
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	18 (36%)	14 (28%)	16 (32%)	5 (10%)
Pars Intermedia, Adenoma				2 (4%)
Thyroid Gland	(50)	(50)	(50)	(50)
Bilateral, C-cell, Adenoma				3 (6%)
C-cell, Adenoma	2 (4%)	8 (16%)	8 (16%)	11 (22%)
C-cell, Carcinoma		2 (4%)		1 (2%)
Follicular Cell, Adenoma		1 (2%)		

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Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS FEMALE

Control

100 ppm

300 ppm

1000 ppm

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(49)	(50)
Adenoma			1 (2%)	
Ovary	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Benign	3 (6%)			
Granulosa-Theca Tumor Benign			1 (2%)	
Thecoma Benign	1 (2%)			
Yolk Sac Carcinoma			1 (2%)	
Uterus	(50)	(50)	(50)	(50)
Adenocarcinoma	1 (2%)	1 (2%)		5 (10%)
Adenoma		1 (2%)		
Leiomyosarcoma				1 (2%)
Polyp Stromal	7 (14%)	7 (14%)	12 (24%)	10 (20%)
Polyp Stromal, Multiple		1 (2%)	4 (8%)	2 (4%)
Sarcoma Stromal			1 (2%)	
Schwannoma Malignant				1 (2%)
Squamous Cell Carcinoma	1 (2%)			
Yolk Sac Carcinoma, Metastatic, Ovary			1 (2%)	
Cervix, Polyp Stromal		1 (2%)		
Vagina	(46)	(48)	(48)	(38)
Granular Cell Tumor Benign	1 (2%)	2 (4%)		
Paraganglioma			1 (2%)	
Schwannoma Malignant	1 (2%)		1 (2%)	1 (3%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(2)	(6)	(5)	(3)
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland				1 (33%)

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Lymph Node, Bronchial	(32)	(27)	(22)	(20)
Lymph Node, Mandibular	(49)	(50)	(50)	(50)
Lymph Node, Mediastinal	(50)	(50)	(50)	(49)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Carcinoma, Metastatic, Thyroid Gland				1 (2%)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Schwannoma Malignant, Metastatic, Skeletal Muscle		1 (2%)		
Yolk Sac Carcinoma, Metastatic, Ovary			1 (2%)	
Thymus	(50)	(48)	(49)	(49)
Thymoma Benign		1 (2%)		

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Adenocarcinoma	5 (10%)	3 (6%)	3 (6%)	1 (2%)
Adenocarcinoma, Multiple		1 (2%)		
Adenoma	4 (8%)	4 (8%)		1 (2%)
Fibroadenoma	17 (34%)	20 (40%)	20 (40%)	13 (26%)
Fibroadenoma, Multiple	3 (6%)	8 (16%)	11 (22%)	5 (10%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Carcinoma	1 (2%)			
Squamous Cell Papilloma				1 (2%)
Sebaceous Gland, Adenoma				1 (2%)
Subcutaneous Tissue, Fibroma		1 (2%)		
Subcutaneous Tissue, Fibrous Histiocytoma		1 (2%)		
Subcutaneous Tissue, Hibernoma			1 (2%)	
Subcutaneous Tissue, Lipoma		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)	1 (2%)	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
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Skeletal Muscle	(3)	(6)	(1)	(3)
Adenocarcinoma, Metastatic, Uterus				1 (33%)
Lipoma				1 (33%)
Liposarcoma	1 (33%)			
Schwannoma Malignant		1 (17%)		
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Glioma Malignant	1 (2%)	1 (2%)		
Granular Cell Tumor Benign		1 (2%)		
Cranial Nerve, Schwannoma Malignant	1 (2%)	1 (2%)		
Peripheral Nerve	(1)	(4)	(2)	(1)
Spinal Cord	(1)	(4)	(1)	(1)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Basal Cell Carcinoma, Metastatic, Skin	1 (2%)			
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		1 (2%)
Cystic Keratinizing Epithelioma		1 (2%)	1 (2%)	
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Yolk Sac Carcinoma, Metastatic, Ovary			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Schwannoma Malignant			1 (2%)	
Harderian Gland	(50)	(50)	(50)	(50)
Zymbal's Gland	(0)	(1)	(1)	(2)

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Lab: BNW

Harlan Sprague Dawley RATS FEMALE	Control	100 ppm	300 ppm	1000 ppm
Carcinoma		1 (100%)		1 (50%)
<hr/>				
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Renal Tubule, Adenoma	1 (2%)			1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)
<hr/>				
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Leukemia Mononuclear			2 (4%)	
Lymphoma Malignant			1 (2%)	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

p-Chloro-a,a,a-trifluorotoluene

Time Report Requested: 11:15:09

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-56-6

First Dose M/F: 01/17/11 / 01/17/11

Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS FEMALE	Control	100 ppm	300 ppm	1000 ppm
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	41	42	43	42
Total Primary Neoplasms	73	96	98	83
Total Animals with Benign Neoplasms	39	42	41	38
Total Benign Neoplasms	60	80	86	70
Total Animals with Malignant Neoplasms	11	13	12	12
Total Malignant Neoplasms	13	16	12	13
Total Animals with Metastatic Neoplasms	1	3	1	2
Total Metastatic Neoplasms	1	5	4	10
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