

**TDMS No.** 20011 - 05

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

**Date Report Requested:** 07/09/2008

**Test Type:** CHRONIC

1-Bromopropane

**Time Report Requested:** 10:20:06

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** 106-94-5

**First Dose M/F:** 07/14/03 / 07/14/03

**Species/Strain:** RATS/F 344

**Lab:** BNW

**C Number:** C20011  
**Lock Date:** 06/15/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.0.0

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CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	24	20	28	35
Natural Death	3	4	4	2
Survivors				
Terminal Sacrifice	23	26	18	13
Animals Examined Microscopically	50	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(47)	(47)	(47)	(48)
Intestine Large, Colon	(48)	(48)	(48)	(48)
Adenoma				1 (2%)
Intestine Large, Rectum	(48)	(48)	(48)	(49)
Adenoma			2 (4%)	
Carcinoid Tumor Malignant		1 (2%)		
Polyp Adenomatous		1 (2%)		
Intestine Small, Duodenum	(48)	(48)	(48)	(48)
Intestine Small, Ileum	(47)	(47)	(46)	(48)
Intestine Small, Jejunum	(47)	(47)	(46)	(48)
Adenoma			1 (2%)	
Liver	(50)	(50)	(50)	(50)
Hepatocellular Carcinoma	2 (4%)	1 (2%)		
Mesentery	(13)	(13)	(8)	(19)
Sarcoma			1 (13%)	
Oral Mucosa	(3)	(0)	(2)	(4)
Squamous Cell Carcinoma	1 (33%)		1 (50%)	2 (50%)
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(0)	(0)	(1)	(1)
<b>CARDIOVASCULAR SYSTEM</b>				

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

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Heart	(50)	(50)	(50)	(50)
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	1 (2%)		1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	8 (16%)	8 (16%)	5 (10%)	7 (14%)
Pheochromocytoma Complex	1 (2%)			1 (2%)
Pheochromocytoma Malignant		1 (2%)	1 (2%)	1 (2%)
Bilateral, Pheochromocytoma Benign	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma		5 (10%)	4 (8%)	5 (10%)
Carcinoma	3 (6%)	7 (14%)	5 (10%)	3 (6%)
Parathyroid Gland	(46)	(48)	(47)	(46)
Pituitary Gland	(50)	(50)	(50)	(49)
Pars Distalis, Adenoma	37 (74%)	36 (72%)	33 (66%)	31 (63%)
Thyroid Gland	(50)	(50)	(50)	(49)
C-cell, Adenoma	5 (10%)	4 (8%)	3 (6%)	3 (6%)
C-cell, Carcinoma	4 (8%)	3 (6%)	2 (4%)	
Follicular Cell, Adenoma				2 (4%)
Follicular Cell, Carcinoma		2 (4%)	2 (4%)	1 (2%)
<b>GENERAL BODY SYSTEM</b>				
Peritoneum	(0)	(0)	(0)	(2)
<b>GENITAL SYSTEM</b>				
Coagulating Gland	(3)	(0)	(1)	(2)
Epididymis	(50)	(50)	(50)	(50)
Penis	(0)	(3)	(1)	(1)
Preputial Gland	(50)	(50)	(49)	(50)
Adenoma	4 (8%)	1 (2%)	1 (2%)	1 (2%)
Carcinoma	2 (4%)	2 (4%)	3 (6%)	
Prostate	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Seminal Vesicle	(50)	(49)	(49)	(50)
Testes	(50)	(50)	(50)	(50)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Bilateral, Interstitial Cell, Adenoma	22 (44%)	20 (40%)	16 (32%)	17 (34%)
Interstitial Cell, Adenoma	12 (24%)	18 (36%)	16 (32%)	12 (24%)
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(5)	(5)	(5)	(4)
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland			1 (20%)	
Lymph Node, Bronchial	(3)	(6)	(5)	(8)
Lymph Node, Mandibular	(3)	(1)	(0)	(6)
Lymph Node, Mediastinal	(30)	(25)	(23)	(32)
Carcinoma, Metastatic, Thyroid Gland	1 (3%)			
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(49)	(50)
Thymus	(43)	(41)	(47)	(46)
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(40)	(36)	(39)	(36)
Fibroadenoma	2 (5%)	2 (6%)	1 (3%)	1 (3%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma		1 (2%)	2 (4%)	1 (2%)
Basal Cell Carcinoma		2 (4%)	1 (2%)	2 (4%)
Fibrous Histiocytoma			1 (2%)	
Hemangiosarcoma			1 (2%)	
Keratoacanthoma		3 (6%)	4 (8%)	5 (10%)
Keratoacanthoma, Multiple			2 (4%)	1 (2%)
Squamous Cell Carcinoma	1 (2%)	1 (2%)		2 (4%)
Pinna, Neural Crest Tumor	1 (2%)			
Sebaceous Gland, Adenoma			2 (4%)	1 (2%)
Sebaceous Gland, Carcinoma		1 (2%)		
Subcutaneous Tissue, Fibroma	3 (6%)	5 (10%)	1 (2%)	
Subcutaneous Tissue, Lipoma	2 (4%)		1 (2%)	1 (2%)
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)
Chordoma	1 (2%)			

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Osteosarcoma Skeletal Muscle Chordoma, Metastatic, Bone	1 (2%) (1) 1 (100%)	(1)	(3)	(3)
<b>NERVOUS SYSTEM</b>				
Brain Oligodendroglioma Malignant Osteosarcoma Spinal Cord	(50)  1 (2%) (1)	(50) 1 (2%) (1)	(50)  (2)	(50)  (1)
<b>RESPIRATORY SYSTEM</b>				
Larynx Carcinoma, Metastatic, Thyroid Gland Lung Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Adenoma, Multiple Alveolar/Bronchiolar Carcinoma Carcinoma, Metastatic, Preputial Gland Carcinoma, Metastatic, Thyroid Gland Chordoma, Metastatic, Bone Nose Trachea Carcinoma, Metastatic, Thyroid Gland	(50)  (50) 2 (4%) 1 (2%) 1 (2%) 1 (2%) 1 (2%)  (50) (50)	(50)  (50) 3 (6%) 1 (2%) 1 (2%)  (48) (50)	(50) 1 (2%) (50) 1 (2%) 2 (4%) 1 (2%)  (48) (50) 1 (2%)	(50)  (50) 5 (10%) 1 (2%)       (50) (50)
<b>SPECIAL SENSES SYSTEM</b>				
Eye Melanoma Malignant Harderian Gland Lacrimal Gland Zymbal's Gland Adenoma Carcinoma	(49)  (50) (1) (0)	(49) 1 (2%) (50) (0) (1)	(50)  (50) (0) (2)	(50)  (50) (0) (2) 1 (50%) 1 (50%)
<b>URINARY SYSTEM</b>				

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
Kidney	(50)	(50)	(50)	(49)
Liposarcoma				1 (2%)
Stromal Nephroma				1 (2%)
Cortex, Renal Tubule, Adenoma	1 (2%)			
Pelvis, Papilloma	1 (2%)			
Urinary Bladder	(50)	(50)	(50)	(50)
Transitional Epithelium, Carcinoma		1 (2%)		
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma			1 (2%)	2 (4%)
Leukemia Mononuclear	29 (58%)	22 (44%)	16 (32%)	24 (48%)
Lymphoma Malignant				1 (2%)
Mesothelioma Malignant		2 (4%)	2 (4%)	4 (8%)

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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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>Tumor Summary for Males</b>				
Total Animals with Primary Neoplasms (b)	50	50	48	49
Total Primary Neoplasms	150	160	139	143
Total Animals with Benign Neoplasms	48	49	47	48
Total Benign Neoplasms	102	110	98	96
Total Animals with Malignant Neoplasms	38	33	32	32
Total Malignant Neoplasms	47	50	41	47
Total Animals with Metastatic Neoplasms	3		1	
Total Metastatic Neoplasms	4		4	
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain-Benign or Malignant	1			
Total Uncertain Neoplasms	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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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Accidently Killed				2
Moribund Sacrifice	13	17	17	23
Natural Death	3		3	1
Survivors				
Terminal Sacrifice	34	33	30	24
Animals Examined Microscopically	50	50	50	50
<b>ALIMENTARY SYSTEM</b>				
Intestine Large, Colon	(47)	(50)	(48)	(49)
Adenoma		1 (2%)	1 (2%)	1 (2%)
Carcinoid Tumor Malignant			1 (2%)	
Intestine Large, Rectum	(47)	(50)	(48)	(49)
Adenoma			1 (2%)	4 (8%)
Intestine Small, Ileum	(46)	(50)	(47)	(48)
Carcinoma		1 (2%)		
Intestine Small, Jejunum	(47)	(50)	(47)	(48)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Carcinoma	1 (2%)			
Mesentery	(13)	(26)	(17)	(23)
Sarcoma			1 (6%)	
Sarcoma, Metastatic, Stomach, Forestomach				1 (4%)
Oral Mucosa	(2)	(0)	(1)	(1)
Pancreas	(50)	(50)	(50)	(50)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Sarcoma				1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Sarcoma				1 (2%)
Tongue	(0)	(1)	(0)	(1)
Tooth	(0)	(0)	(1)	(0)

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



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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	3 (6%)		
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	2 (4%)	4 (8%)	1 (2%)	
Pheochromocytoma Complex	1 (2%)			
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma		2 (4%)	1 (2%)	
Carcinoma	1 (2%)	1 (2%)	1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	35 (70%)	33 (66%)	28 (56%)	30 (60%)
Pars Distalis, Carcinoma		1 (2%)	1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma	3 (6%)	3 (6%)	3 (6%)	4 (8%)
C-cell, Carcinoma	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Follicular Cell, Adenoma		1 (2%)	1 (2%)	
Follicular Cell, Carcinoma				1 (2%)
<b>GENERAL BODY SYSTEM</b>				
None				
<b>GENITAL SYSTEM</b>				
Clitoral Gland	(49)	(50)	(49)	(49)
Adenoma	3 (6%)	9 (18%)	3 (6%)	3 (6%)
Carcinoma	1 (2%)	3 (6%)	2 (4%)	1 (2%)
Ovary	(50)	(50)	(50)	(50)
Cystadenoma			1 (2%)	
Granulosa Cell Tumor Malignant			1 (2%)	
Granulosa-Theca Tumor Malignant	2 (4%)			
Uterus	(50)	(50)	(50)	(50)

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Adenoma				1 (2%)
Polyp Stromal	8 (16%)	8 (16%)	8 (16%)	7 (14%)
Sarcoma Stromal	2 (4%)		1 (2%)	1 (2%)
Vagina	(3)	(0)	(0)	(0)
Sarcoma	1 (33%)			
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(1)	(3)	(2)	(2)
Lymph Node, Bronchial	(1)	(4)	(5)	(7)
Squamous Cell Carcinoma, Metastatic, Lung		1 (25%)		
Lymph Node, Mediastinal	(34)	(30)	(31)	(28)
Carcinoma, Metastatic, Thyroid Gland			1 (3%)	
Lymph Node, Mesenteric	(49)	(49)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Thymus	(46)	(45)	(45)	(43)
Thymoma Benign	1 (2%)			
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(50)	(50)	(50)	(50)
Carcinoma	4 (8%)	3 (6%)	3 (6%)	1 (2%)
Fibroadenoma	19 (38%)	14 (28%)	15 (30%)	15 (30%)
Fibroadenoma, Multiple	6 (12%)	6 (12%)	6 (12%)	1 (2%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma		1 (2%)		1 (2%)
Basal Cell Carcinoma				1 (2%)
Keratoacanthoma	1 (2%)		1 (2%)	1 (2%)
Squamous Cell Papilloma				1 (2%)
Pinna, Neural Crest Tumor	1 (2%)	1 (2%)		
Sebaceous Gland, Adenoma		1 (2%)		
Subcutaneous Tissue, Fibroma	2 (4%)			
Subcutaneous Tissue, Lipoma			1 (2%)	
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)

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Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Skeletal Muscle Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	(0)	(0)	(1) 1 (100%)	(4)
<b>NERVOUS SYSTEM</b>				
Brain Carcinoma, Metastatic, Pituitary Gland Glioma Malignant	(50) 1 (2%)	(50) 1 (2%)	(50) 1 (2%)	(50)
Spinal Cord	(0)	(1)	(0)	(3)
<b>RESPIRATORY SYSTEM</b>				
Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)	4 (8%)		2 (4%)
Alveolar/Bronchiolar Adenoma, Multiple			1 (2%)	
Alveolar/Bronchiolar Carcinoma	1 (2%)	1 (2%)	2 (4%)	
Squamous Cell Carcinoma		1 (2%)		
Nose	(50)	(50)	(49)	(50)
Fibroma				1 (2%)
Pleura	(0)	(0)	(1)	(0)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (100%)	
Trachea	(50)	(50)	(50)	(50)
<b>SPECIAL SENSES SYSTEM</b>				
Ear	(0)	(0)	(1)	(1)
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Zymbal's Gland	(1)	(1)	(2)	(0)
Carcinoma	1 (100%)	1 (100%)	2 (100%)	
<b>URINARY SYSTEM</b>				
Kidney	(49)	(50)	(50)	(50)
Sarcoma, Metastatic, Stomach,				1 (2%)

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CAS Number: 106-94-5

First Dose M/F: 07/14/03 / 07/14/03

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Forestomach Renal Tubule, Carcinoma	1 (2%)			
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)		
Leukemia Mononuclear	16 (32%)	13 (26%)	17 (34%)	15 (30%)
Lymphoma Malignant		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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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
<b>Tumor Summary for Females</b>				
Total Animals with Primary Neoplasms (b)	49	48	46	43
Total Primary Neoplasms	119	120	106	96
Total Animals with Benign Neoplasms	45	46	36	41
Total Benign Neoplasms	84	90	72	72
Total Animals with Malignant Neoplasms	26	23	28	20
Total Malignant Neoplasms	34	29	34	24
Total Animals with Metastatic Neoplasms		2	4	1
Total Metastatic Neoplasms		2	6	2
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain-Benign or Malignant	1	1		
Total Uncertain Neoplasms	1	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