

**Experiment Number:** 20303 - 05

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

**Date Report Requested:** 12/12/2011

**Test Type:** CHRONIC

Vinylidene chloride

**Time Report Requested:** 09:47:51

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** 75-35-4

**First Dose M/F:** 06/06/05 / 06/06/05

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

**Lab:** BNW

F1\_R2

**NTP Study Number:** C20303  
**Lock Date:** 05/09/2008  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.5.0.0\_004  
**PWG Approval Date:** NONE

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Species/Strain: RATS/F 344/N

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## FISCHER 344 RATS MALE

Control

25 ppm

50 ppm

100 ppm

**Disposition Summary**

<b>Animals Initially In Study</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>
<b>Early Deaths</b>				
<b>Moribund Sacrifice</b>	<b>21</b>	<b>15</b>	<b>23</b>	<b>27</b>
<b>Natural Death</b>	<b>4</b>	<b>8</b>	<b>5</b>	<b>4</b>
<b>Survivors</b>				
<b>Terminal Sacrifice</b>	<b>25</b>	<b>27</b>	<b>22</b>	<b>19</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(49)	(49)	(50)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	
Intestine Large, Cecum	(48)	(44)	(45)	(46)
Intestine Large, Colon	(47)	(46)	(47)	(48)
Adenoma				1 (2%)
Intestine Large, Rectum	(46)	(47)	(46)	(49)
Intestine Small, Duodenum	(47)	(45)	(45)	(49)
Intestine Small, Ileum	(47)	(45)	(45)	(47)
Intestine Small, Jejunum	(47)	(43)	(45)	(47)
Sarcoma Stromal		1 (2%)		
Liver	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Urinary Bladder		1 (2%)		
Cholangiocarcinoma				1 (2%)
Hepatocellular Adenoma	1 (2%)	1 (2%)		
Mesentery	(16)	(15)	(21)	(23)
Carcinoma, Metastatic, Urinary Bladder		1 (7%)		
Pancreas	(50)	(50)	(50)	(49)
Carcinoma, Metastatic, Urinary Bladder		1 (2%)		
Acinus, Adenoma			1 (2%)	
Acinus, Carcinoma				1 (2%)
Duct, Carcinoma			1 (2%)	
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(49)	(50)	(49)	(50)

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

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CAS Number: 75-35-4

First Dose M/F: 06/06/05 / 06/06/05

Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm
Tongue	(0)	(1)	(0)	(2)
Squamous Cell Papilloma		1 (100%)		
Tooth	(1)	(0)	(0)	(0)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(1)	(0)	(1)	(0)
Heart	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin				1 (2%)
Pericardium, Osteosarcoma, Metastatic, Bone	1 (2%)			

## ENDOCRINE SYSTEM

Adrenal Cortex	(49)	(50)	(49)	(50)
Adenoma	4 (8%)	4 (8%)	1 (2%)	
Adrenal Medulla	(49)	(50)	(48)	(50)
Pheochromocytoma Benign	5 (10%)	9 (18%)	5 (10%)	7 (14%)
Pheochromocytoma Malignant	2 (4%)	1 (2%)		1 (2%)
Bilateral, Pheochromocytoma Benign		2 (4%)	3 (6%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(49)
Adenoma	2 (4%)	2 (4%)	3 (6%)	1 (2%)
Carcinoma	2 (4%)	2 (4%)	4 (8%)	4 (8%)
Parathyroid Gland	(50)	(49)	(47)	(45)
Adenoma			1 (2%)	
Pituitary Gland	(50)	(49)	(49)	(50)
Pars Distalis, Adenoma	34 (68%)	28 (57%)	26 (53%)	33 (66%)
Thyroid Gland	(50)	(49)	(49)	(48)
C-cell, Adenoma	4 (8%)	5 (10%)	4 (8%)	1 (2%)
C-cell, Carcinoma	3 (6%)	3 (6%)	3 (6%)	3 (6%)
Follicular Cell, Carcinoma			1 (2%)	

## GENERAL BODY SYSTEM

Peritoneum	(0)	(2)	(4)	(3)
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Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

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Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm
Osteosarcoma, Metastatic, Uncertain Primary Site				1 (33%)
Tissue NOS	(0)	(0)	(0)	(1)

## GENITAL SYSTEM

Coagulating Gland	(0)	(0)	(0)	(3)
Epididymis	(50)	(50)	(50)	(50)
Penis	(0)	(0)	(1)	(0)
Preputial Gland	(50)	(49)	(49)	(50)
Adenoma	2 (4%)		2 (4%)	
Carcinoma	2 (4%)	1 (2%)	3 (6%)	
Prostate	(50)	(50)	(50)	(50)
Adenoma				1 (2%)
Carcinoma, Metastatic, Urinary Bladder		1 (2%)		
Seminal Vesicle	(48)	(50)	(48)	(48)
Adenoma			1 (2%)	1 (2%)
Carcinoma, Metastatic, Urinary Bladder		1 (2%)		
Testes	(50)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma	20 (40%)	24 (48%)	17 (34%)	14 (28%)
Interstitial Cell, Adenoma	12 (24%)	11 (22%)	22 (44%)	11 (22%)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(49)	(48)	(49)
Lymph Node	(6)	(4)	(9)	(7)
Lymph Node, Bronchial	(8)	(9)	(9)	(9)
Carcinoma, Metastatic, Thyroid Gland		1 (11%)		
Osteosarcoma, Metastatic, Bone	1 (13%)			
Lymph Node, Mandibular	(1)	(1)	(1)	(0)
Lymph Node, Mediastinal	(28)	(21)	(24)	(30)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Thymus	(42)	(43)	(41)	(44)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	

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

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Species/Strain: RATS/F 344/N

Lab: BNW

## FISCHER 344 RATS MALE

Control

25 ppm

50 ppm

100 ppm

## INTEGUMENTARY SYSTEM

Mammary Gland	(36)	(29)	(24)	(32)
Carcinoma			1 (4%)	
Fibroadenoma	1 (3%)	1 (3%)	1 (4%)	2 (6%)
Skin	(50)	(50)	(49)	(50)
Basal Cell Adenoma	1 (2%)			1 (2%)
Basal Cell Carcinoma	1 (2%)			
Keratoacanthoma	3 (6%)	3 (6%)	3 (6%)	2 (4%)
Squamous Cell Papilloma	3 (6%)	1 (2%)	1 (2%)	1 (2%)
Trichoepithelioma	1 (2%)		2 (4%)	
Subcutaneous Tissue, Fibroma	1 (2%)	4 (8%)	2 (4%)	3 (6%)
Subcutaneous Tissue, Fibroma, Multiple			1 (2%)	
Subcutaneous Tissue, Fibrosarcoma				1 (2%)
Subcutaneous Tissue, Fibrous Histiocytoma				1 (2%)
Subcutaneous Tissue, Lipoma				1 (2%)
Subcutaneous Tissue, Sarcoma		2 (4%)		
Subcutaneous Tissue, Schwannoma Malignant			1 (2%)	

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Osteoma	1 (2%)			
Osteosarcoma	1 (2%)			1 (2%)
Skeletal Muscle	(3)	(4)	(7)	(11)
Carcinoma, Metastatic, Urinary Bladder		1 (25%)		
Lipoma	1 (33%)			
Osteosarcoma, Metastatic, Bone	1 (33%)			

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Granular Cell Tumor Benign			1 (2%)	

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Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm
Peripheral Nerve	(2)	(0)	(1)	(0)
Spinal Cord	(2)	(0)	(1)	(0)

## RESPIRATORY SYSTEM

Larynx	(50)	(49)	(49)	(49)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)	1 (2%)	
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	3 (6%)	1 (2%)	3 (6%)	3 (6%)
Alveolar/Bronchiolar Carcinoma		1 (2%)	1 (2%)	1 (2%)
Carcinoma, Metastatic, Kidney			1 (2%)	1 (2%)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)	1 (2%)	
Carcinoma, Metastatic, Urinary Bladder		1 (2%)		
Fibrous Histiocytoma, Metastatic, Skin				1 (2%)
Osteosarcoma, Metastatic, Bone	1 (2%)			
Osteosarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Squamous Cell Carcinoma		1 (2%)		
Nose	(49)	(50)	(50)	(50)
Sarcoma			1 (2%)	
Respiratory Epithelium, Adenoma			1 (2%)	4 (8%)
Pleura	(0)	(1)	(0)	(1)
Trachea	(50)	(49)	(49)	(48)
Carcinoma, Metastatic, Thyroid Gland			1 (2%)	

## SPECIAL SENSES SYSTEM

Eye	(48)	(48)	(47)	(49)
Harderian Gland	(50)	(49)	(48)	(49)
Zymbal's Gland	(0)	(1)	(0)	(0)
Carcinoma		1 (100%)		

## URINARY SYSTEM

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

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Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm
Kidney	(50)	(50)	(49)	(50)
Mesenchymal Tumor Malignant	1 (2%)			1 (2%)
Renal Tubule, Carcinoma		2 (4%)	1 (2%)	1 (2%)
Urinary Bladder	(49)	(50)	(49)	(50)
Transitional Epithelium, Carcinoma		2 (4%)		

## SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		2 (4%)	1 (2%)	
Leukemia Mononuclear	17 (34%)	17 (34%)	16 (32%)	20 (40%)
Mesothelioma Malignant	1 (2%)	12 (24%)	28 (56%)	23 (46%)

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/N

Lab: BNW

## FISCHER 344 RATS MALE

Control

25 ppm

50 ppm

100 ppm

**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	50	50	49	49
Total Primary Neoplasms	129	145	163	147
Total Animals with Benign Neoplasms	47	48	47	48
Total Benign Neoplasms	99	97	101	88
Total Animals with Malignant Neoplasms	27	35	39	42
Total Malignant Neoplasms	30	48	62	59
Total Animals with Metastatic Neoplasms	1	2	2	3
Total Metastatic Neoplasms	4	10	6	5
Total Animals with Malignant Neoplasms Uncertain Primary Site				1
Total Animals with Neoplasms Uncertain- Benign or Malignant				
Total Uncertain Neoplasms				

\*\*\* 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/N

Lab: BNW

## FISCHER 344 RATS FEMALE

Control

25 ppm

50 ppm

100 ppm

## Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	19	22	18	28
Natural Death	1	2	2	3
Survivors				
Natural Death			1	
Terminal Sacrifice	30	26	29	19
Animals Examined Microscopically	50	50	50	50

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(48)	(48)	(48)
Intestine Large, Colon	(50)	(49)	(48)	(50)
Intestine Large, Rectum	(49)	(50)	(49)	(49)
Adenoma			1 (2%)	
Leiomyosarcoma, Metastatic, Vagina		1 (2%)		
Intestine Small, Duodenum	(50)	(50)	(49)	(50)
Intestine Small, Ileum	(50)	(48)	(49)	(49)
Intestine Small, Jejunum	(50)	(48)	(49)	(49)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Adenoma	1 (2%)		1 (2%)	1 (2%)
Hepatocellular Adenoma, Multiple				1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site	1 (2%)			
Mesentery	(13)	(20)	(23)	(24)
Oral Mucosa	(0)	(1)	(0)	(1)
Squamous Cell Papilloma		1 (100%)		
Pancreas	(50)	(50)	(50)	(50)
Acinus, Adenoma		1 (2%)		
Salivary Glands	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(1)	(0)	(0)	(0)

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Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
Squamous Cell Carcinoma	1 (100%)			

## CARDIOVASCULAR SYSTEM

Blood Vessel	(1)	(1)	(0)	(0)
Leiomyosarcoma	1 (100%)			
Aorta, Schwannoma Malignant, Metastatic, Heart		1 (100%)		
Heart	(50)	(50)	(50)	(50)
Schwannoma Malignant		1 (2%)		

## ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	3 (6%)	1 (2%)	1 (2%)
Carcinoma	1 (2%)	1 (2%)		
Bilateral, Adenoma	1 (2%)			
Adrenal Medulla	(50)	(50)	(50)	(49)
Pheochromocytoma Benign		5 (10%)	1 (2%)	1 (2%)
Pheochromocytoma Malignant	1 (2%)		2 (4%)	
Bilateral, Pheochromocytoma Benign			1 (2%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	1 (2%)
Carcinoma		1 (2%)	1 (2%)	
Parathyroid Gland	(49)	(46)	(45)	(47)
Adenoma		1 (2%)		
Pituitary Gland	(50)	(49)	(49)	(49)
Pars Distalis, Adenoma	32 (64%)	36 (73%)	25 (51%)	28 (57%)
Pars Distalis, Carcinoma	1 (2%)	2 (4%)		1 (2%)
Thyroid Gland	(50)	(50)	(48)	(50)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
C-cell, Adenoma	3 (6%)	4 (8%)	6 (13%)	11 (22%)
C-cell, Carcinoma		6 (12%)	2 (4%)	2 (4%)
Follicular Cell, Adenoma		2 (4%)		1 (2%)

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Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
<b>GENERAL BODY SYSTEM</b>				
Peritoneum	(0)	(1)	(1)	(1)
<b>GENITAL SYSTEM</b>				
Clitoral Gland	(47)	(48)	(45)	(48)
Adenoma	4 (9%)	8 (17%)	3 (7%)	4 (8%)
Carcinoma	1 (2%)			5 (10%)
Ovary	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Benign		1 (2%)		
Granulosa Cell Tumor Malignant			1 (2%)	
Granulosa-Theca Tumor Benign		1 (2%)		
Granulosa-Theca Tumor Malignant	1 (2%)			
Sertoli Cell Tumor Malignant	1 (2%)			
Yolk Sac Carcinoma			1 (2%)	
Uterus	(50)	(50)	(50)	(50)
Polyp Stromal	10 (20%)	9 (18%)	4 (8%)	8 (16%)
Sarcoma Stromal			2 (4%)	
Bilateral, Polyp Stromal	1 (2%)			
Endometrium, Carcinoma			1 (2%)	1 (2%)
Vagina	(0)	(2)	(0)	(1)
Granular Cell Tumor Benign		1 (50%)		
Leiomyosarcoma		1 (50%)		
Polyp				1 (100%)
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(2)	(2)	(4)	(9)
Lymph Node, Bronchial	(4)	(7)	(4)	(10)
Lymph Node, Mandibular	(2)	(0)	(1)	(4)
Lymph Node, Mediastinal	(33)	(26)	(29)	(38)

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Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
Carcinoma, Metastatic, Thyroid Gland		1 (4%)		
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
Thymus	(46)	(45)	(42)	(42)
Sarcoma, Metastatic, Uncertain Primary Site	1 (2%)			
Thymoma Benign		1 (2%)		
Thymoma Malignant			1 (2%)	

## INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Carcinoma	4 (8%)		2 (4%)	4 (8%)
Carcinoma, Multiple	1 (2%)	1 (2%)		
Fibroadenoma	26 (52%)	18 (36%)	21 (42%)	25 (50%)
Fibroadenoma, Multiple	11 (22%)	16 (32%)	10 (20%)	14 (28%)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma	1 (2%)	1 (2%)		
Keratoacanthoma	1 (2%)		1 (2%)	
Subcutaneous Tissue, Fibroma	1 (2%)	2 (4%)	2 (4%)	
Subcutaneous Tissue, Neural Crest Tumor		1 (2%)		
Subcutaneous Tissue, Sarcoma			1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)		

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Chondroma			1 (2%)	
Osteoma		1 (2%)		
Osteosarcoma	1 (2%)			
Sarcoma, Metastatic, Uncertain Primary Site	1 (2%)			
Skeletal Muscle	(1)	(2)	(3)	(0)
Sarcoma			1 (33%)	
Sarcoma, Metastatic, Uncertain Primary Site	1 (100%)			

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Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
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Schwannoma Malignant, Metastatic, Heart		1 (50%)		
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## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pituitary Gland	1 (2%)	2 (4%)		1 (2%)
Oligodendroglioma Benign		1 (2%)		
Oligodendroglioma Malignant				1 (2%)

## RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)		4 (8%)	
Alveolar/Bronchiolar Carcinoma, Multiple				1 (2%)
Mesenchymal Tumor Malignant, Metastatic, Kidney		1 (2%)		
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla	1 (2%)		1 (2%)	
Sarcoma, Metastatic, Skeletal Muscle			1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site	1 (2%)			
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Chondroma				1 (2%)
Respiratory Epithelium, Adenoma				1 (2%)
Pleura	(0)	(1)	(0)	(1)
Trachea	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		

## SPECIAL SENSES SYSTEM

Eye	(50)	(49)	(50)	(49)
Harderian Gland	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Heart		1 (2%)		

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

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 09:47:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/06/05 / 06/06/05

Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
Lacrimal Gland	(0)	(0)	(1)	(1)
Zymbal's Gland	(0)	(0)	(1)	(0)
Carcinoma			1 (100%)	

## URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Mesenchymal Tumor Malignant		1 (2%)		
Schwannoma Malignant, Metastatic, Heart		1 (2%)		
Renal Tubule, Adenoma			1 (2%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Leiomyosarcoma, Metastatic, Vagina		1 (2%)		

## SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma				1 (2%)
Leukemia Mononuclear	10 (20%)	11 (22%)	13 (26%)	25 (50%)
Lymphoma Malignant	1 (2%)			1 (2%)
Mesothelioma 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

Vinylidene chloride

Time Report Requested: 09:47:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/06/05 / 06/06/05

Species/Strain: RATS/F 344/N

Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
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**Tumor Summary for Females**

Total Animals with Primary Neoplasms (b)	49	49	47	49
Total Primary Neoplasms	119	141	114	142
Total Animals with Benign Neoplasms	47	47	44	45
Total Benign Neoplasms	94	113	84	100
Total Animals with Malignant Neoplasms	23	25	26	38
Total Malignant Neoplasms	25	27	30	42
Total Animals with Metastatic Neoplasms	3	6	2	1
Total Metastatic Neoplasms	7	17	2	1
Total Animals with Malignant Neoplasms Uncertain Primary Site	1			
Total Animals with Neoplasms Uncertain- Benign or Malignant		1		
Total Uncertain Neoplasms		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