

TDMs No. 95003 - 05

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

Date Report Requested: 07/06/2010

Test Type: CHRONIC

Methyl trans-styryl ketone

Time Report Requested: 12:57:38

Route: SKIN APPLICATION

CAS Number: 1896-62-4

First Dose M/F: 04/05/04 / 04/05/04

Species/Strain: RATS/F 344/N

Lab: SRI

F#2_R2

C Number: C95003
Lock Date: 01/29/2007
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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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	15	14	19	17
Natural Death	8	6	9	3
Survivors				
Natural Death		1		1
Terminal Sacrifice	27	29	22	29
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Intestine Large, Cecum	(50)	(49)	(49)	(50)
Intestine Large, Colon	(48)	(50)	(50)	(50)
Intestine Large, Rectum	(46)	(48)	(48)	(48)
Intestine Small, Duodenum	(49)	(50)	(50)	(50)
Intestine Small, Ileum	(49)	(48)	(49)	(48)
Intestine Small, Jejunum	(46)	(45)	(45)	(48)
Liver	(50)	(50)	(50)	(50)
Fibrous Histiocytoma			1 (2%)	
Hepatocellular Adenoma	2 (4%)	2 (4%)		2 (4%)
Hepatocellular Adenoma, Multiple			1 (2%)	1 (2%)
Hepatocellular Carcinoma		1 (2%)		
Mesentery	(15)	(14)	(7)	(12)
Schwannoma Malignant	1 (7%)			
Oral Mucosa	(1)	(1)	(0)	(2)
Squamous Cell Carcinoma	1 (100%)			1 (50%)
Squamous Cell Papilloma		1 (100%)		1 (50%)
Pancreas	(49)	(50)	(49)	(50)
Acinus, Adenoma				1 (2%)
Acinus, Carcinoma			1 (2%)	
Salivary Glands	(50)	(50)	(48)	(50)
Schwannoma Malignant, Metastatic, Skin			1 (2%)	2 (4%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)

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

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Tongue	(1)	(3)	(4)	(1)
Squamous Cell Carcinoma			2 (50%)	
Squamous Cell Papilloma		1 (33%)		
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Schwannoma Malignant		1 (2%)		1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma		1 (2%)	1 (2%)	1 (2%)
Carcinoma	1 (2%)			
Adrenal Medulla	(49)	(50)	(50)	(50)
Pheochromocytoma Benign	9 (18%)	10 (20%)	10 (20%)	4 (8%)
Pheochromocytoma Benign, Multiple	2 (4%)	1 (2%)	4 (8%)	5 (10%)
Pheochromocytoma Malignant		2 (4%)	1 (2%)	
Islets, Pancreatic	(49)	(50)	(49)	(50)
Adenoma	5 (10%)	16 (32%)	7 (14%)	10 (20%)
Adenoma, Multiple				2 (4%)
Carcinoma	3 (6%)	1 (2%)	2 (4%)	3 (6%)
Parathyroid Gland	(49)	(50)	(47)	(47)
Pituitary Gland	(50)	(49)	(50)	(50)
Pars Distalis, Adenoma	31 (62%)	30 (61%)	30 (60%)	34 (68%)
Pars Distalis, Adenoma, Multiple	2 (4%)	1 (2%)	2 (4%)	
Pars Distalis, Carcinoma	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Pars Intermedia, Adenoma		1 (2%)		
Thyroid Gland	(46)	(45)	(43)	(49)
C-cell, Adenoma	6 (13%)	6 (13%)	6 (14%)	13 (27%)
C-cell, Carcinoma			1 (2%)	1 (2%)
Follicular Cell, Adenoma		1 (2%)	1 (2%)	1 (2%)
Follicular Cell, Carcinoma	2 (4%)		1 (2%)	1 (2%)

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GENERAL BODY SYSTEM

Tissue NOS	(0)	(0)	(0)	(1)
Chemodectoma Benign				1 (100%)

GENITAL SYSTEM

Coagulating Gland	(0)	(1)	(0)	(1)
Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(49)	(50)
Adenoma	1 (2%)	1 (2%)		1 (2%)
Carcinoma	3 (6%)	2 (4%)		1 (2%)
Prostate	(50)	(50)	(50)	(50)
Adenoma		2 (4%)		
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma	18 (36%)	11 (22%)	13 (26%)	17 (34%)
Interstitial Cell, Adenoma	16 (32%)	23 (46%)	19 (38%)	16 (32%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(25)	(30)	(21)	(26)
Mediastinal, Carcinoma, Metastatic, Pancreas			1 (5%)	
Mediastinal, Carcinoma, Metastatic, Thyroid Gland			1 (5%)	
Mediastinal, Hemangiosarcoma			1 (5%)	
Lymph Node, Mandibular	(3)	(1)	(3)	(4)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pancreas			1 (2%)	
Spleen	(50)	(50)	(50)	(50)
Thymus	(50)	(50)	(46)	(49)
Carcinoma, Metastatic, Thyroid Gland				1 (2%)
Thymoma Benign			2 (4%)	1 (2%)

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

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Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(49)	(48)	(49)
Adenoma				1 (2%)
Carcinoma		1 (2%)	1 (2%)	
Fibroadenoma	2 (4%)		3 (6%)	2 (4%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma				1 (2%)
Basal Cell Carcinoma	1 (2%)			
Fibroma	5 (10%)	6 (12%)	7 (14%)	1 (2%)
Fibrosarcoma	2 (4%)			
Fibrous Histiocytoma			2 (4%)	
Keratoacanthoma	4 (8%)	2 (4%)	5 (10%)	4 (8%)
Keratoacanthoma, Multiple			2 (4%)	
Lipoma		1 (2%)		
Schwannoma Malignant			3 (6%)	2 (4%)
Squamous Cell Carcinoma	1 (2%)			
Squamous Cell Papilloma	1 (2%)			2 (4%)
Trichoepithelioma				1 (2%)
Sebaceous Gland, Adenoma			1 (2%)	1 (2%)
Sebaceous Gland, Carcinoma		1 (2%)		

MUSCULOSKELETAL SYSTEM

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

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NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pituitary Gland	1 (2%)	2 (4%)	1 (2%)	2 (4%)
Spinal Cord	(7)	(4)	(4)	(3)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	2 (4%)		2 (4%)	2 (4%)
Alveolar/Bronchiolar Carcinoma		1 (2%)	1 (2%)	
Osteosarcoma, Metastatic, Bone			1 (2%)	1 (2%)
Nose	(50)	(49)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Zymbal's Gland	(1)	(1)	(2)	(1)
Carcinoma	1 (100%)	1 (100%)	2 (100%)	1 (100%)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Renal Tubule, Adenoma, Multiple			1 (2%)	
Renal Tubule, Carcinoma			1 (2%)	
Urethra	(0)	(1)	(1)	(0)
Urinary Bladder	(50)	(50)	(50)	(50)

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma			2 (4%)	

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* Number of animals with any tissue examined microscopically

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Leukemia Mononuclear	26 (52%)	27 (54%)	15 (30%)	24 (48%)
Mesothelioma Malignant	4 (8%)	4 (8%)	1 (2%)	2 (4%)

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	48	49	49	50
Total Primary Neoplasms	155	163	157	166
Total Animals with Benign Neoplasms	46	46	46	49
Total Benign Neoplasms	106	117	117	126
Total Animals with Malignant Neoplasms	33	34	28	32
Total Malignant Neoplasms	49	46	40	40
Total Animals with Metastatic Neoplasms	1	2	6	7
Total Metastatic Neoplasms	1	2	10	7
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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Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	10	15	13	15
Natural Death	10	11	10	9
Survivors				
Terminal Sacrifice	30	24	27	26
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(49)
Intestine Small, Ileum	(48)	(48)	(49)	(46)
Liver	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Uterus				1 (2%)
Hepatocellular Adenoma			2 (4%)	1 (2%)
Mesentery	(23)	(18)	(23)	(25)
Carcinoma, Metastatic, Uterus				1 (4%)
Sarcoma			1 (4%)	
Pancreas	(49)	(50)	(50)	(49)
Carcinoma, Metastatic, Uterus				1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Schwannoma Malignant		1 (2%)		1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma		1 (2%)		
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(0)	(0)	(1)	(3)
Squamous Cell Papilloma				1 (33%)

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Sarcoma			1 (2%)	

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	4 (8%)	3 (6%)		2 (4%)
Adrenal Medulla	(49)	(49)	(47)	(49)
Pheochromocytoma Benign	1 (2%)	3 (6%)		1 (2%)
Pheochromocytoma Malignant			1 (2%)	
Islets, Pancreatic	(49)	(50)	(50)	(49)
Adenoma	3 (6%)		2 (4%)	3 (6%)
Parathyroid Gland	(50)	(50)	(49)	(44)
Adenoma	1 (2%)			
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	31 (62%)	33 (66%)	28 (56%)	23 (46%)
Pars Distalis, Adenoma, Multiple		2 (4%)		1 (2%)
Pars Distalis, Carcinoma	2 (4%)		1 (2%)	4 (8%)
Thyroid Gland	(50)	(50)	(49)	(50)
C-cell, Adenoma	7 (14%)	4 (8%)	4 (8%)	7 (14%)
C-cell, Adenoma, Multiple			1 (2%)	
C-cell, Carcinoma	1 (2%)		1 (2%)	1 (2%)
Follicular Cell, Adenoma	1 (2%)			1 (2%)

GENERAL BODY SYSTEM

Tissue NOS	(1)	(1)	(0)	(0)
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GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Adenoma	6 (12%)	3 (6%)	2 (4%)	9 (18%)
Adenoma, Multiple		1 (2%)		
Carcinoma	3 (6%)	3 (6%)	1 (2%)	2 (4%)
Fibrosarcoma		1 (2%)		
Ovary	(50)	(50)	(48)	(50)

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Granulosa Cell Tumor Benign	1 (2%)			
Uterus	(50)	(50)	(49)	(50)
Carcinoma				1 (2%)
Polyp Stromal	9 (18%)	7 (14%)	17 (35%)	5 (10%)
Polyp Stromal, Multiple	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Sarcoma Stromal		1 (2%)		
Vagina	(6)	(6)	(7)	(10)
Polyp			1 (14%)	
Squamous Cell Papilloma				1 (10%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(16)	(13)	(14)	(12)
Mediastinal, Schwannoma Malignant, Metastatic, Salivary Glands		1 (8%)		
Lymph Node, Mandibular	(3)	(2)	(3)	(3)
Lymph Node, Mesenteric	(50)	(49)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Thymus	(50)	(49)	(47)	(47)
Thymoma Benign	1 (2%)			

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	1 (2%)		3 (6%)
Carcinoma	2 (4%)	3 (6%)	1 (2%)	
Carcinoma, Multiple		1 (2%)		
Fibroadenoma	13 (26%)	13 (26%)	14 (28%)	13 (26%)
Fibroadenoma, Multiple	6 (12%)	7 (14%)	4 (8%)	5 (10%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma		1 (2%)		
Fibroma	3 (6%)			1 (2%)
Keratoacanthoma			1 (2%)	
Lipoma			1 (2%)	

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Chordoma			1 (2%)	
Osteosarcoma		1 (2%)		1 (2%)
Skeletal Muscle	(1)	(1)	(1)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pituitary Gland	2 (4%)		1 (2%)	3 (6%)
Spinal Cord	(1)	(3)	(2)	(3)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)		2 (4%)	1 (2%)
Carcinoma, Metastatic, Mammary Gland		1 (2%)		
Schwannoma Malignant, Metastatic, Salivary Glands		1 (2%)		
Nose	(48)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(49)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	1 (2%)		

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Nephroblastoma				1 (2%)

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Urinary Bladder	(50)	(50)	(49)	(50)
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma			2 (4%)	
Leukemia Mononuclear	18 (36%)	11 (22%)	9 (18%)	13 (26%)

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* Number of animals with any tissue examined microscopically

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FISCHER 344 RATS FEMALE

0 MG/KG

10 MG/KG

30 MG/KG

90 MG/KG

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	49	47	45	46
Total Primary Neoplasms	118	103	99	104
Total Animals with Benign Neoplasms	47	42	40	43
Total Benign Neoplasms	92	81	80	80
Total Animals with Malignant Neoplasms	22	18	18	20
Total Malignant Neoplasms	26	22	19	24
Total Animals with Metastatic Neoplasms	2	2	2	4
Total Metastatic Neoplasms	2	3	6	6
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