

Experiment Number: 20523 - 03

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

Date Report Requested: 10/29/2014

Test Type: CHRONIC

Metal working fluids (Trim VX)

Time Report Requested: 10:15:41

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: TRIMVX

First Dose M/F: 07/20/09 / 07/20/09

Species/Strain: RATS/Wistar Han

Lab: BNW

F1_RE

NTP Study Number: C20523
Lock Date: 06/04/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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First Dose M/F: 07/20/09 / 07/20/09

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	12	10	14	15
Natural Death	2	1	3	1
Survivors				
Terminal Sacrifice	36	39	33	34
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)
Adenoma				1 (2%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Adenoma	1 (2%)	1 (2%)		1 (2%)
Mesentery	(2)	(2)	(3)	(5)
Pancreas	(50)	(50)	(50)	(50)
Acinus, Adenoma	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Schwannoma Malignant				1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma				1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)

CARDIOVASCULAR SYSTEM

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

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

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Schwannoma Malignant, Metastatic, Skeletal Muscle			1 (2%)	

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			
Carcinoma				2 (4%)
Adrenal Medulla	(50)	(50)	(49)	(49)
Pheochromocytoma Benign		2 (4%)	1 (2%)	
Pheochromocytoma Malignant				1 (2%)
Schwannoma Malignant, Metastatic, Skeletal Muscle			1 (2%)	
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	5 (10%)	1 (2%)		1 (2%)
Carcinoma				1 (2%)
Parathyroid Gland	(39)	(44)	(46)	(49)
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	13 (26%)	12 (24%)	14 (28%)	15 (30%)
Pars Distalis, Adenoma, Multiple	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Pars Intermedia, Adenoma	1 (2%)	1 (2%)	2 (4%)	
Pars Nervosa, Granular Cell Tumor Benign			1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)
Bilateral, C-cell, Adenoma				1 (2%)
C-cell, Adenoma	3 (6%)	5 (10%)	2 (4%)	6 (12%)
Follicle, Adenoma		1 (2%)	3 (6%)	1 (2%)
Follicle, Carcinoma		1 (2%)	1 (2%)	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
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CAS Number: TRIMVX

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Preputial Gland	(49)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Hemangiosarcoma				1 (2%)
Interstitial Cell, Adenoma		1 (2%)	2 (4%)	1 (2%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(11)	(7)	(7)	(8)
Lumbar, Hemangioma	1 (9%)			
Lymph Node, Bronchial	(39)	(43)	(42)	(42)
Lymph Node, Mandibular	(46)	(46)	(46)	(48)
Lymph Node, Mediastinal	(43)	(48)	(44)	(43)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hemangiosarcoma		1 (2%)	1 (2%)	
Spleen	(50)	(50)	(50)	(50)
Thymus	(48)	(49)	(50)	(50)
Schwannoma Malignant, Metastatic, Skeletal Muscle			1 (2%)	
Thymoma Benign	3 (6%)	3 (6%)	4 (8%)	1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(4)	(5)	(1)	(2)
Skin	(50)	(50)	(50)	(50)
Epidermis, Keratoacanthoma	1 (2%)	1 (2%)		1 (2%)
Epidermis, Squamous Cell Papilloma		2 (4%)		
Sebaceous Gland, Adenoma	1 (2%)			
Subcutaneous Tissue, Fibroma	1 (2%)	1 (2%)	1 (2%)	
Subcutaneous Tissue, Hemangiosarcoma		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)		

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(4)	(4)	(8)	(3)
Hemangiosarcoma				2 (67%)
Rhabdomyosarcoma		1 (25%)		
Schwannoma Malignant			1 (13%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Zymbal'S Gland	1 (2%)			
Granular Cell Tumor Benign		1 (2%)		
Oligodendroglioma Benign			1 (2%)	
Peripheral Nerve	(4)	(2)	(8)	(2)
Schwannoma Malignant			1 (13%)	
Spinal Cord	(4)	(2)	(7)	(2)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma				1 (2%)
Alveolar/Bronchiolar Carcinoma				2 (4%)
Carcinoma, Metastatic, Zymbal'S Gland	1 (2%)			
Schwannoma Malignant, Metastatic, Skeletal Muscle			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Polyp, Multiple				1 (2%)
Squamous Cell Papilloma				1 (2%)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				

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

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Lacrimal Gland	(1)	(0)	(0)	(1)
Zymbal's Gland	(1)	(0)	(0)	(0)
Carcinoma	1 (100%)			
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Renal Tubule, Carcinoma	1 (2%)			
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma				1 (2%)
Lymphoma Malignant	1 (2%)	1 (2%)		1 (2%)
Mesothelioma Malignant	1 (2%)	1 (2%)		
Mesothelioma Nos	1 (2%)		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

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	26	27	24	31
Total Primary Neoplasms	38	40	37	47
Total Animals with Benign Neoplasms	24	25	23	27
Total Benign Neoplasms	33	33	32	34
Total Animals with Malignant Neoplasms	4	6	3	10
Total Malignant Neoplasms	4	7	4	12
Total Animals with Metastatic Neoplasms	1		1	
Total Metastatic Neoplasms	2		4	
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant	1		1	1
Total Uncertain Neoplasms	2		1	2

*** 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/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	19	15	15	16
Natural Death	1	2	2	4
Survivors				
Moribund Sacrifice	1	1		
Terminal Sacrifice	29	32	33	30
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Neoplasm Nos		1 (2%)		
Intestine Large, Colon	(50)	(50)	(50)	(50)
Neoplasm Nos		1 (2%)		
Schwannoma Malignant, Metastatic, Uterus			1 (2%)	
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Cholangioma		1 (2%)		
Hepatocellular Adenoma				1 (2%)
Mesentery	(4)	(5)	(9)	(4)
Adenocarcinoma, Metastatic, Uterus			1 (11%)	
Neoplasm Nos		1 (20%)		
Schwannoma Malignant, Metastatic, Uterus			1 (11%)	
Pancreas	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus			1 (2%)	
Neoplasm Nos		1 (2%)		
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Neoplasm Nos		1 (2%)		

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Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Stomach, Glandular Neoplasm Nos	(50)	(50) 1 (2%)	(50)	(50)
Tongue	(0)	(0)	(0)	(1)

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Schwannoma Malignant				1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma				2 (4%)
Adrenal Medulla	(50)	(50)	(50)	(49)
Pheochromocytoma Malignant			1 (2%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma				1 (2%)
Parathyroid Gland	(42)	(43)	(47)	(47)
Adenoma	1 (2%)			
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	34 (68%)	31 (62%)	26 (52%)	22 (44%)
Pars Distalis, Adenoma, Multiple		2 (4%)	6 (12%)	2 (4%)
Pars Intermedia, Adenoma	1 (2%)		1 (2%)	
Thyroid Gland	(49)	(50)	(50)	(50)
Bilateral, C-cell, Adenoma	1 (2%)	1 (2%)		
C-cell, Adenoma	6 (12%)	3 (6%)	4 (8%)	6 (12%)
Follicle, Adenoma		1 (2%)	2 (4%)	1 (2%)
Follicle, Carcinoma	1 (2%)	2 (4%)		

GENERAL BODY SYSTEM

None

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

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
GENITAL SYSTEM				
Clitoral Gland	(50)	(48)	(49)	(50)
Squamous Cell Papilloma		1 (2%)		
Ovary	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Benign		2 (4%)		2 (4%)
Granulosa Cell Tumor Malignant	1 (2%)	1 (2%)		
Tubulostromal Adenoma				1 (2%)
Tubulostromal Carcinoma				1 (2%)
Bilateral, Tubulostromal Adenoma				1 (2%)
Uterus	(50)	(50)	(50)	(50)
Adenocarcinoma	1 (2%)	1 (2%)	4 (8%)	1 (2%)
Adenoma	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Granular Cell Tumor Benign	1 (2%)			
Polyp Stromal	4 (8%)		7 (14%)	1 (2%)
Polyp Stromal, Multiple	2 (4%)		1 (2%)	
Sarcoma Stromal	1 (2%)		1 (2%)	
Schwannoma Malignant	2 (4%)		4 (8%)	1 (2%)
Vagina	(1)	(0)	(0)	(0)
Fibrosarcoma	1 (100%)			

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Neoplasm Nos		1 (2%)		
Lymph Node	(4)	(1)	(2)	(1)
Lumbar, Hemangiosarcoma		1 (100%)		
Pancreatic, Adenocarcinoma, Metastatic, Uterus			1 (50%)	
Renal, Schwannoma Malignant, Metastatic, Uterus			1 (50%)	
Lymph Node, Bronchial	(37)	(37)	(44)	(36)
Lymph Node, Mandibular	(40)	(46)	(47)	(50)
Lymph Node, Mediastinal	(46)	(49)	(46)	(45)
Neoplasm Nos		1 (2%)		
Schwannoma Malignant, Metastatic, Lung				1 (2%)

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Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Hemangiosarcoma				1 (2%)
Neoplasm Nos		1 (2%)		
Spleen	(50)	(50)	(50)	(50)
Thymus	(48)	(49)	(49)	(49)
Schwannoma Malignant, Metastatic, Lung				1 (2%)
Thymoma Benign	8 (17%)	4 (8%)	7 (14%)	10 (20%)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	1 (2%)	2 (4%)	1 (2%)
Adenoma, Multiple	1 (2%)			
Carcinoma	3 (6%)	2 (4%)	2 (4%)	4 (8%)
Carcinoma, Multiple	1 (2%)	2 (4%)	3 (6%)	2 (4%)
Fibroadenoma	2 (4%)	7 (14%)	7 (14%)	4 (8%)
Fibroadenoma, Multiple		2 (4%)		1 (2%)
Skin	(50)	(50)	(50)	(50)
Epidermis, Squamous Cell Papilloma			1 (2%)	2 (4%)
Subcutaneous Tissue, Lipoma		1 (2%)		
Subcutaneous Tissue, Neoplasm Nos		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant				2 (4%)

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(4)	(3)	(3)	(4)
Adenocarcinoma, Metastatic, Uterus			1 (33%)	
Schwannoma Malignant, Metastatic, Skin				1 (25%)

NERVOUS SYSTEM

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

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Oligodendroglioma Benign			1 (2%)	
Peripheral Nerve	(4)	(3)	(2)	(3)
Spinal Cord	(4)	(3)	(2)	(3)

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma			1 (2%)	1 (2%)
Alveolar/Bronchiolar Adenoma, Multiple				2 (4%)
Carcinoma, Metastatic, Kidney		1 (2%)		
Carcinoma, Metastatic, Uterus			1 (2%)	
Cystic Keratinizing Epithelioma Neoplasm Nos		1 (2%)		1 (2%)
Schwannoma Malignant, Metastatic, Uterus			1 (2%)	
Mediastinum, Schwannoma Malignant				1 (2%)
Nose	(50)	(50)	(49)	(50)
Polyp				1 (2%)
Schwannoma Benign				1 (2%)
Schwannoma Malignant, Metastatic, Skin				1 (2%)
Trachea	(49)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Zymbal's Gland	(0)	(2)	(1)	(1)
Carcinoma		1 (50%)	1 (100%)	1 (100%)
Squamous Cell Papilloma		1 (50%)		

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Neoplasm Nos		1 (2%)		

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Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Transitional Epithelium, Carcinoma		1 (2%)		
Ureter	(0)	(0)	(0)	(1)
Urinary Bladder	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Neoplasm Nos		1 (2%)		
Schwannoma Malignant, Metastatic, Uterus			1 (2%)	
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	2 (4%)			1 (2%)
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

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Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	47	43	44	41
Total Primary Neoplasms	79	84	85	82
Total Animals with Benign Neoplasms	42	39	40	35
Total Benign Neoplasms	65	59	69	65
Total Animals with Malignant Neoplasms	13	11	15	16
Total Malignant Neoplasms	14	12	16	17
Total Animals with Metastatic Neoplasms		1	2	4
Total Metastatic Neoplasms		1	10	5
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant		1		
Total Uncertain Neoplasms		13		

*** 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