

Experiment Number: 20515 - 03

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

Date Report Requested: 02/18/2014

Test Type: CHRONIC

Metal working fluids (CIMSTAR 3800)

Time Report Requested: 12:32:34

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: CIMSTAR3800

First Dose M/F: 04/14/08 / 04/14/08

Species/Strain: RATS/Wistar Han

Lab: BNW

F2_RE

NTP Study Number: C20515
Lock Date: 01/12/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.0_001
PWG Approval Date: 02/21/2013

Test Type: CHRONIC

Metal working fluids (CIMSTAR 3800)

Time Report Requested: 12:32:34

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: CIMSTAR3800

First Dose M/F: 04/14/08 / 04/14/08

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	17	12	13	15
Natural Death		4	3	2
Survivors				
Terminal Sacrifice	33	34	34	33
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(48)	(47)	(49)
Intestine Large, Colon	(50)	(49)	(47)	(49)
Intestine Large, Rectum	(48)	(47)	(47)	(48)
Intestine Small, Duodenum	(50)	(48)	(47)	(49)
Intestine Small, Ileum	(50)	(48)	(47)	(49)
Intestine Small, Jejunum	(50)	(48)	(47)	(49)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Adenoma		1 (2%)		
Hepatocellular Carcinoma		1 (2%)		
Mesentery	(7)	(7)	(1)	(2)
Liposarcoma				1 (50%)
Oral Mucosa	(1)	(0)	(1)	(0)
Pancreas	(50)	(50)	(49)	(50)
Adenoma	1 (2%)			
Carcinoma				1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Sarcoma				1 (2%)
Schwannoma Malignant	1 (2%)			
Stomach, Forestomach	(50)	(50)	(50)	(50)
Leiomyoma	1 (2%)			
Sarcoma	1 (2%)			
Stomach, Glandular	(50)	(50)	(49)	(50)
Sarcoma	1 (2%)			

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

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CAS Number: CIMSTAR3800

First Dose M/F: 04/14/08 / 04/14/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Tooth	(0)	(1)	(0)	(1)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Schwannoma Benign	1 (2%)		2 (4%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(50)
Adenoma	2 (4%)		2 (4%)	1 (2%)
Carcinoma		1 (2%)	1 (2%)	1 (2%)
Bilateral, Carcinoma	1 (2%)			
Adrenal Medulla	(50)	(48)	(49)	(50)
Pheochromocytoma Benign	4 (8%)		1 (2%)	5 (10%)
Pheochromocytoma Malignant		1 (2%)		
Islets, Pancreatic	(50)	(50)	(49)	(50)
Adenoma			2 (4%)	2 (4%)
Carcinoma			1 (2%)	
Parathyroid Gland	(43)	(43)	(44)	(47)
Adenoma		1 (2%)		1 (2%)
Pituitary Gland	(49)	(50)	(50)	(50)
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Pars Distalis, Adenoma	16 (33%)	18 (36%)	11 (22%)	17 (34%)
Pars Distalis, Carcinoma			1 (2%)	
Pars Intermedia, Adenoma	2 (4%)	1 (2%)	2 (4%)	
Thyroid Gland	(50)	(50)	(49)	(50)
C-cell, Adenoma	6 (12%)	5 (10%)	3 (6%)	5 (10%)
C-cell, Adenoma, Multiple	1 (2%)			
C-cell, Carcinoma			1 (2%)	1 (2%)
Follicular Cell, Adenoma	1 (2%)			
Follicular Cell, Carcinoma		1 (2%)	1 (2%)	2 (4%)

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
GENERAL BODY SYSTEM				
Peritoneum	(1)	(0)	(0)	(0)
GENITAL SYSTEM				
Coagulating Gland	(0)	(0)	(0)	(1)
Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		2 (4%)
Adenoma, Multiple	1 (2%)		1 (2%)	1 (2%)
Carcinoma			1 (2%)	
Seminal Vesicle	(50)	(50)	(48)	(50)
Adenoma	1 (2%)			
Testes	(50)	(50)	(50)	(50)
Interstitial Cell, Adenoma	2 (4%)	1 (2%)	2 (4%)	2 (4%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(49)	(50)
Hemangiosarcoma	1 (2%)			
Lymph Node	(12)	(5)	(7)	(5)
Lymph Node, Bronchial	(42)	(40)	(37)	(35)
Lymph Node, Mandibular	(46)	(46)	(44)	(45)
Carcinoma, Metastatic, Zymbal'S Gland		1 (2%)		
Lymph Node, Mediastinal	(46)	(45)	(50)	(49)
Lymph Node, Mesenteric	(50)	(50)	(49)	(50)
Hemangioma			1 (2%)	
Hemangiosarcoma	3 (6%)	1 (2%)		2 (4%)
Spleen	(50)	(50)	(50)	(50)
Hemangiosarcoma				1 (2%)
Sarcoma				1 (2%)
Thymus	(40)	(43)	(44)	(46)

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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
Thymoma Benign	1 (3%)		2 (5%)	1 (2%)
Thymoma Malignant				1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(6)	(6)	(3)	(4)
Skin	(50)	(50)	(50)	(50)
Basal Cell Carcinoma	1 (2%)		1 (2%)	
Keratoacanthoma	1 (2%)			
Squamous Cell Papilloma			1 (2%)	
Sebaceous Gland, Adenoma		1 (2%)		
Subcutaneous Tissue, Fibroma	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)			
Subcutaneous Tissue, Hemangiopericytoma				1 (2%)
Subcutaneous Tissue, Hemangiosarcoma				1 (2%)
Subcutaneous Tissue, Lipoma	1 (2%)			1 (2%)
Subcutaneous Tissue, Liposarcoma				1 (2%)
Subcutaneous Tissue, Neural Crest Tumor		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant		2 (4%)		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Osteosarcoma	1 (2%)	1 (2%)		2 (4%)
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Skeletal Muscle	(1)	(2)	(1)	(0)
Sarcoma		1 (50%)	1 (100%)	

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Zymbal'S Gland		1 (2%)		
Glioma	2 (4%)	1 (2%)	1 (2%)	
Granular Cell Tumor Benign		2 (4%)		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
Granular Cell Tumor Malignant		1 (2%)	1 (2%)	
Meningioma Malignant	1 (2%)			
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Peripheral Nerve	(5)	(4)	(6)	(6)
Spinal Cord	(5)	(4)	(7)	(6)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)		1 (2%)	
Osteosarcoma, Metastatic, Bone		1 (2%)		1 (2%)
Osteosarcoma, Metastatic, Uncertain Primary Site		1 (2%)		
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Nose	(50)	(50)	(50)	(50)
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Trachea	(50)	(49)	(50)	(50)
Sarcoma, Metastatic, Salivary Glands				1 (2%)
SPECIAL SENSES SYSTEM				
Ear	(0)	(0)	(1)	(0)
Eye	(50)	(50)	(48)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	
Sarcoma, Metastatic, Salivary Glands				1 (2%)
Zymbal's Gland	(3)	(2)	(1)	(0)
Carcinoma	2 (67%)	2 (100%)		
URINARY SYSTEM				
Kidney	(50)	(50)	(49)	(50)

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

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First Dose M/F: 04/14/08 / 04/14/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lipoma				1 (2%)
Renal Tubule, Adenoma		1 (2%)		
Transitional Epithelium, Papilloma	1 (2%)			
Urinary Bladder	(50)	(50)	(48)	(49)

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Lymphoma Malignant		2 (4%)	1 (2%)	1 (2%)
Mesothelioma Malignant	1 (2%)	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)	37	36	30	39
Total Primary Neoplasms	62	51	45	60
Total Animals with Benign Neoplasms	32	27	24	31
Total Benign Neoplasms	45	34	33	42
Total Animals with Malignant Neoplasms	13	14	9	16
Total Malignant Neoplasms	15	15	11	18
Total Animals with Metastatic Neoplasms		4		2
Total Metastatic Neoplasms		4		9
Total Animals with Malignant Neoplasms Uncertain Primary Site		1		
Total Animals with Neoplasms Uncertain- Benign or Malignant	2	2	1	
Total Uncertain Neoplasms	2	2	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/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				
Accidentally Killed		1		
Moribund Sacrifice	13	16	14	19
Natural Death	2			1
Survivors				
Moribund Sacrifice	1	1		1
Terminal Sacrifice	34	32	36	29
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(50)	(50)	(49)
Intestine Large, Colon	(49)	(49)	(50)	(49)
Intestine Large, Rectum	(46)	(50)	(47)	(46)
Intestine Small, Duodenum	(49)	(50)	(50)	(49)
Intestine Small, Ileum	(49)	(50)	(50)	(49)
Intestine Small, Jejunum	(49)	(50)	(50)	(49)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Adenoma		2 (4%)	1 (2%)	
Mesentery	(7)	(8)	(8)	(5)
Oral Mucosa	(0)	(0)	(0)	(1)
Pancreas	(49)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Uterus				1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Leiomyosarcoma	1 (2%)			
Stomach, Glandular	(50)	(50)	(50)	(50)
Leiomyosarcoma	1 (2%)			
Tongue	(1)	(0)	(0)	(0)

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Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
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CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Chemodectoma Benign			1 (2%)	
Hemangioma			1 (2%)	

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Adrenal Medulla	(49)	(50)	(49)	(49)
Pheochromocytoma Benign	1 (2%)		1 (2%)	
Pheochromocytoma Malignant	1 (2%)	1 (2%)		
Islets, Pancreatic	(49)	(50)	(50)	(50)
Adenoma	1 (2%)			
Parathyroid Gland	(47)	(44)	(40)	(42)
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	35 (70%)	33 (66%)	36 (72%)	30 (60%)
Pars Intermedia, Adenoma	1 (2%)			2 (4%)
Thyroid Gland	(50)	(50)	(50)	(49)
C-cell, Adenoma	3 (6%)	2 (4%)	4 (8%)	4 (8%)
C-cell, Carcinoma				3 (6%)
Follicular Cell, Adenoma	1 (2%)		3 (6%)	1 (2%)
Follicular Cell, Carcinoma	1 (2%)	1 (2%)		

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(46)	(50)	(49)
Ovary	(50)	(50)	(50)	(50)

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First Dose M/F: 04/14/08 / 04/14/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
Granulosa Cell Tumor Benign	1 (2%)		1 (2%)	
Granulosa Cell Tumor Malignant		2 (4%)		1 (2%)
Uterus	(50)	(50)	(50)	(50)
Fibroma			1 (2%)	
Leiomyoma			1 (2%)	
Polyp Stromal	4 (8%)	6 (12%)	3 (6%)	3 (6%)
Polyp Stromal, Multiple	1 (2%)			1 (2%)
Sarcoma Stromal	2 (4%)			
Sarcoma Stromal, Multiple				1 (2%)
Endometrium, Adenocarcinoma	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Endometrium, Malignant Mixed Mullerian Tumor				1 (2%)
Endometrium, Squamous Cell Papilloma	1 (2%)			
Vagina	(0)	(1)	(0)	(1)
Polyp				1 (100%)
Squamous Cell Carcinoma		1 (100%)		

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(2)	(2)	(1)	(0)
Lymph Node, Bronchial	(38)	(35)	(32)	(35)
Lymph Node, Mandibular	(49)	(47)	(43)	(49)
Lymph Node, Mediastinal	(49)	(46)	(45)	(47)
Lymph Node, Mesenteric	(49)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)	1 (2%)	1 (2%)	
Spleen	(50)	(50)	(50)	(50)
Thymus	(48)	(48)	(45)	(45)
Thymoma Benign	5 (10%)	4 (8%)	7 (16%)	3 (7%)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Carcinoma	3 (6%)	5 (10%)	5 (10%)	3 (6%)

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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
Carcinoma, Multiple	1 (2%)		4 (8%)	1 (2%)
Fibroadenoma	6 (12%)	8 (16%)	9 (18%)	8 (16%)
Fibroadenoma, Multiple	3 (6%)	2 (4%)	4 (8%)	2 (4%)
Skin	(50)	(50)	(50)	(50)
Keratoacanthoma				1 (2%)
Squamous Cell Papilloma				3 (6%)
Subcutaneous Tissue, Lipoma				1 (2%)
Subcutaneous Tissue, Liposarcoma	1 (2%)			
Subcutaneous Tissue, Sarcoma		2 (4%)		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(1)	(0)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Granular Cell Tumor Benign	2 (4%)	1 (2%)		1 (2%)
Granular Cell Tumor Malignant				2 (4%)
Oligodendroglioma Malignant				1 (2%)
Peripheral Nerve	(2)	(9)	(5)	(6)
Spinal Cord	(2)	(9)	(5)	(6)

RESPIRATORY SYSTEM

Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma				1 (2%)
Squamous Cell Carcinoma		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Trachea	(49)	(50)	(50)	(50)

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Lab: BNW

Wistar Han RATS FEMALE	Control	10 mg/m3	30 mg/m3	100 mg/m3
SPECIAL SENSES SYSTEM				
Eye	(49)	(50)	(50)	(50)
Harderian Gland	(49)	(50)	(50)	(50)
Zymbal's Gland	(0)	(0)	(0)	(1)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Renal Tubule, Adenoma	1 (2%)			
Transitional Epithelium, Papilloma		1 (2%)		
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Lymphoma Malignant	2 (4%)			
Mesothelioma Malignant		1 (2%)		

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* Number of animals with any tissue examined microscopically

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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)	43	40	44	43
Total Primary Neoplasms	85	78	87	79
Total Animals with Benign Neoplasms	42	39	43	40
Total Benign Neoplasms	70	62	76	64
Total Animals with Malignant Neoplasms	11	15	11	13
Total Malignant Neoplasms	15	16	11	15
Total Animals with Metastatic Neoplasms				1
Total Metastatic Neoplasms				1
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