

Experiment Number: 20601 - 03

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 10/15/2014

Test Type: CHRONIC

Antimony trioxide

Time Report Requested: 14:18:26

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1309-64-4

First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

F1_53 Wk. SSAC_RE

NTP Study Number: C20601
Lock Date: 06/13/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
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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Wistar Han RATS MALE

Control

3 mg/m3

10 mg/m3

30 mg/m3

Disposition Summary

Animals Initially In Study

60

60

60

60

Scheduled Sacrifice

10

10

10

10

Early Deaths

Survivors

Animals Examined Microscopically

10

10

10

10

ALIMENTARY SYSTEM

Esophagus

(10)

(10)

(10)

(10)

Intestine Large, Cecum

(10)

(10)

(10)

(10)

Intestine Large, Colon

(10)

(10)

(10)

(10)

Intestine Large, Rectum

(10)

(9)

(10)

(10)

Intestine Small, Duodenum

(10)

(10)

(10)

(10)

Intestine Small, Ileum

(10)

(10)

(10)

(10)

Intestine Small, Jejunum

(10)

(10)

(10)

(10)

Liver

(10)

(10)

(10)

(10)

Congestion

1 [1.0]

Pancreas

(10)

(10)

(10)

(10)

Atrophy

3 [1.0]

2 [1.0]

2 [1.5]

Inflammation, Chronic Active

3 [1.0]

1 [1.0]

1 [1.0]

Arteriole, Inflammation, Chronic Active

1 [1.0]

Salivary Glands

(10)

(10)

(10)

(10)

Stomach, Forestomach

(10)

(10)

(10)

(10)

Ulcer

1 [1.0]

Stomach, Glandular

(10)

(10)

(10)

(10)

Inflammation, Chronic Active

1 [1.0]

2 [1.0]

CARDIOVASCULAR SYSTEM

Blood Vessel

(10)

(10)

(10)

(10)

Heart

(10)

(10)

(10)

(10)

Cardiomyopathy

3 [1.0]

2 [1.0]

5 [1.2]

2 [1.0]

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Lab: BNW

Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
ENDOCRINE SYSTEM				
Adrenal Cortex	(10)	(10)	(10)	(10)
Hyperplasia	1 [1.0]	3 [1.3]	2 [1.0]	3 [1.0]
Adrenal Medulla	(10)	(10)	(9)	(10)
Hypertrophy	1 [1.0]			
Islets, Pancreatic	(10)	(10)	(10)	(10)
Parathyroid Gland	(10)	(10)	(9)	(8)
Pituitary Gland	(10)	(10)	(10)	(10)
Pars Distalis, Hyperplasia	1 [1.0]			
Thyroid Gland	(10)	(10)	(10)	(10)
Hyperplasia, Squamous		1 [2.0]		
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Epididymis	(10)	(10)	(10)	(10)
Preputial Gland	(10)	(10)	(10)	(9)
Inflammation, Chronic Active	4 [1.5]	2 [1.0]	6 [1.2]	3 [1.7]
Prostate	(10)	(10)	(10)	(10)
Inflammation, Suppurative	3 [1.0]			1 [1.0]
Epithelium, Hyperplasia		1 [1.0]		
Seminal Vesicle	(10)	(10)	(10)	(10)
Testes	(10)	(10)	(10)	(10)
Germinal Epithelium, Degeneration	2 [1.5]	2 [3.0]		
HEMATOPOIETIC SYSTEM				
Bone Marrow	(10)	(10)	(10)	(10)
Lymph Node, Bronchial	(9)	(8)	(10)	(10)
Foreign Body		8	10	10

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

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Lab: BNW

Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hyperplasia, Lymphoid		2 [1.5]	5 [1.0]	2 [1.5]
Lymph Node, Mandibular	(10)	(9)	(9)	(8)
Lymph Node, Mediastinal	(10)	(8)	(10)	(9)
Foreign Body		8	6	6
Hyperplasia, Lymphoid		2 [1.0]	6 [1.3]	3 [1.7]
Pigmentation	5 [1.0]	5 [1.0]	8 [1.0]	5 [1.0]
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)
Spleen	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation	2 [1.0]	5 [1.2]	2 [1.0]	4 [1.0]
Thymus	(10)	(10)	(10)	(10)
INTEGUMENTARY SYSTEM				
Mammary Gland	(4)	(1)	(1)	(3)
Skin	(10)	(10)	(10)	(10)
Fibrosis			1 [4.0]	
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(10)	(10)	(10)
NERVOUS SYSTEM				
Brain	(10)	(10)	(10)	(10)
RESPIRATORY SYSTEM				
Larynx	(10)	(10)	(10)	(10)
Foreign Body		10	10	10
Infiltration Cellular, Lymphocyte	1 [2.0]			
Lung	(10)	(10)	(10)	(10)
Fibrosis		10 [1.1]	10 [1.8]	10 [1.8]
Foreign Body		10	10	10

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First Dose M/F: 09/22/08 / 09/22/08

Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Inflammation, Chronic Active	1 [1.0]	10 [2.1]	10 [2.9]	10 [3.0]
Metaplasia, Osseous			1 [1.0]	
Proteinosis		9 [1.0]	10 [1.4]	10 [2.4]
Alveolar Epithelium, Hyperplasia		10 [1.2]	10 [1.9]	10 [2.2]
Alveolus, Inflammation, Suppurative		1 [1.0]	2 [1.0]	2 [1.5]
Bronchiole, Epithelium, Hyperplasia		5 [1.0]	5 [1.0]	6 [1.0]
Perivascular, Infiltration Cellular, Lymphocyte		4 [1.0]	4 [1.0]	3 [1.0]
Nose	(10)	(10)	(10)	(10)
Foreign Body			1	9
Inflammation, Suppurative		1 [1.0]		1 [1.0]
Glands, Respiratory Epithelium, Cyst			1 [1.0]	
Olfactory Epithelium, Accumulation, Hyaline Droplet	3 [1.7]	1 [1.0]	4 [1.3]	2 [1.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet	2 [1.0]			
Respiratory Epithelium, Hyperplasia			1 [1.0]	2 [1.0]
Trachea	(10)	(10)	(10)	(10)
Foreign Body		8	9	10
Infiltration Cellular, Polymorphonuclear				1 [1.0]

SPECIAL SENSES SYSTEM

Eye	(10)	(10)	(10)	(10)
Lens, Degeneration			1 [3.0]	
Retina, Atrophy	2 [1.5]	1 [2.0]		
Harderian Gland	(10)	(10)	(10)	(10)

URINARY SYSTEM

Kidney	(10)	(10)	(10)	(10)
Nephropathy	6 [1.3]	3 [1.7]	4 [1.3]	5 [1.4]
Pelvis, Dilatation	1 [1.0]			
Pelvis, Inflammation, Chronic Active		1 [2.0]		
Urinary Bladder	(10)	(10)	(10)	(10)
Calculus Gross Observation			3	2

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Wistar Han RATS MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
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*** END OF MALE ***

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE**Control****3 mg/m3****10 mg/m3****30 mg/m3****Disposition Summary****Animals Initially In Study****60****60****60****60****Scheduled Sacrifice****10****10****10****10****Early Deaths****Survivors****Animals Examined Microscopically****10****10****10****10****ALIMENTARY SYSTEM**

Esophagus

(10)

(10)

(9)

(10)

Intestine Large, Cecum

(10)

(10)

(10)

(10)

Intestine Large, Colon

(10)

(10)

(10)

(10)

Intestine Large, Rectum

(10)

(10)

(10)

(10)

Intestine Small, Duodenum

(10)

(10)

(10)

(10)

Intestine Small, Ileum

(10)

(10)

(10)

(10)

Intestine Small, Jejunum

(10)

(10)

(10)

(10)

Liver

(10)

(10)

(10)

(10)

Basophilic Focus

1

Hematopoietic Cell Proliferation

1 [2.0]

Hepatodiaphragmatic Nodule

1

Infiltration Cellular, Histiocyte

1 [2.0]

Pigmentation, Hemosiderin

1 [3.0]

Pancreas

(10)

(10)

(10)

(10)

Atrophy

1 [1.0]

2 [1.5]

Basophilic Focus

1

Inflammation, Chronic Active

1 [1.0]

1 [1.0]

Artery, Fibrosis

1 [2.0]

Salivary Glands

(10)

(10)

(10)

(10)

Stomach, Forestomach

(10)

(10)

(10)

(10)

Stomach, Glandular

(10)

(10)

(10)

(10)

CARDIOVASCULAR SYSTEM

Blood Vessel

(10)

(10)

(10)

(10)

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Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Heart	(10)	(10)	(10)	(10)
Cardiomyopathy		3 [1.0]		1 [1.0]
Mineralization	1 [1.0]			

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)	(10)	(10)
Hyperplasia		1 [2.0]	1 [1.0]	1 [2.0]
Adrenal Medulla	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(10)	(10)	(10)
Parathyroid Gland	(10)	(8)	(8)	(10)
Pituitary Gland	(10)	(10)	(10)	(10)
Pars Distalis, Hyperplasia	2 [2.0]	2 [2.5]		1 [1.0]
Thyroid Gland	(10)	(10)	(10)	(10)
C-cell, Hyperplasia				1 [1.0]

GENERAL BODY SYSTEM

None				
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GENITAL SYSTEM

Clitoral Gland	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	4 [1.0]	3 [1.0]	3 [1.0]	1 [3.0]
Ovary	(10)	(10)	(10)	(10)
Cyst	2 [1.0]	1 [1.0]	4 [1.5]	
Uterus	(10)	(10)	(10)	(10)
Dilatation		1 [3.0]		
Endometrial Glands, Metaplasia, Squamous			1 [1.0]	1 [1.0]

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(10)	(10)	(10)
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Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hyperplasia	1 [1.0]	1 [1.0]	3 [1.0]	
Lymph Node, Bronchial	(7)	(8)	(9)	(5)
Foreign Body		7	9	4
Hyperplasia, Lymphoid		4 [1.0]	2 [1.0]	1 [1.0]
Pigmentation				1 [1.0]
Lymph Node, Mandibular	(10)	(10)	(10)	(8)
Lymph Node, Mediastinal	(10)	(9)	(10)	(10)
Foreign Body		9	5	6
Hyperplasia, Lymphoid		8 [1.0]		3 [1.7]
Pigmentation	8 [1.3]	8 [1.3]	8 [1.3]	8 [1.4]
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)
Spleen	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation	4 [1.0]	6 [1.0]	6 [1.0]	7 [1.0]
Thymus	(10)	(10)	(10)	(10)
Cyst	1 [2.0]		2 [2.0]	
Hyperplasia, Squamous		1 [1.0]		1 [1.0]
INTEGUMENTARY SYSTEM				
Mammary Gland	(10)	(10)	(10)	(10)
Skin	(10)	(10)	(10)	(10)
Cyst, Squamous	1 [2.0]			
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(10)	(10)	(10)
NERVOUS SYSTEM				
Brain	(10)	(10)	(10)	(10)
RESPIRATORY SYSTEM				

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Lab: BNW

Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Larynx	(10)	(10)	(10)	(10)
Foreign Body		10	10	10
Lung	(10)	(10)	(10)	(10)
Fibrosis		10 [1.0]	10 [1.0]	10 [1.1]
Foreign Body		10	10	10
Hemorrhage			1 [1.0]	1 [1.0]
Inflammation, Chronic Active	2 [1.0]	10 [2.0]	10 [2.0]	10 [2.3]
Proteinosis		10 [1.7]	10 [2.8]	10 [3.0]
Alveolar Epithelium, Hyperplasia		10 [1.0]	10 [1.2]	10 [1.4]
Alveolus, Inflammation, Suppurative		1 [1.0]		3 [1.0]
Bronchiole, Epithelium, Hyperplasia		1 [1.0]		3 [1.0]
Perivascular, Infiltration Cellular, Lymphocyte		4 [1.0]	5 [1.0]	3 [1.0]
Nose	(10)	(10)	(10)	(10)
Foreign Body				4
Metaplasia, Mucous				1 [1.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	2 [1.0]	2 [1.5]	1 [1.0]	2 [1.5]
Respiratory Epithelium, Accumulation, Hyaline Droplet		1 [1.0]		1 [1.0]
Respiratory Epithelium, Hyperplasia		1 [1.0]		2 [1.0]
Respiratory Epithelium, Metaplasia, Squamous				1 [1.0]
Trachea	(10)	(10)	(10)	(10)
Foreign Body		6	10	10

SPECIAL SENSES SYSTEM

Eye	(10)	(10)	(10)	(10)
Lens, Degeneration		1 [3.0]		
Retina, Atrophy	1 [1.0]		1 [1.0]	1 [1.0]
Harderian Gland	(10)	(10)	(10)	(10)

URINARY SYSTEM

Kidney	(10)	(10)	(10)	(10)
Calculus Micro Observation Only		1	1	

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Wistar Han RATS FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Nephropathy		2 [1.5]	1 [1.0]	2 [1.0]
Cortex, Vein, Dilatation				1 [1.0]
Urinary Bladder	(10)	(10)	(10)	(10)

*** END OF REPORT ***

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b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)