

Experiment Number: 99019 - 03

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

Date Report Requested: 01/05/2017

Test Type: 90-DAY

Triethylamine

Time Report Requested: 11:01:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 121-44-8

First Dose M/F: 01/20/03 / 01/21/03

Species/Strain: RATS/F 344/N

Lab: BNW

Revised Final 2 _R2

NTP Study Number: C99019
Lock Date: 09/16/2003
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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FISCHER 344 RATS MALE

CONTROL

12.5 PPM

25 PPM

50 PPM

100 PPM

200 PPM

Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(9)	(9)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(10)	(10)	(9)	(10)	(10)
Intestine Small, Ileum	(10)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(10)	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Clear Cell Focus					1	
Hepatodiaphragmatic Nodule		3	4			1
Inflammation				2 [1.0]		
Bile Duct, Hyperplasia, Focal			1 [2.0]			
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(9)	(10)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)

CARDIOVASCULAR SYSTEM

Heart	(10)	(0)	(0)	(0)	(0)	(10)
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ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)

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)

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Species/Strain: RATS/F 344/N

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FISCHER 344 RATS MALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Suppurative	1 [1.0]					
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mediastinal	(7)	(0)	(0)	(0)	(0)	(2)
Ectasia	1 [2.0]					
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(7)	(0)	(0)	(0)	(0)	(4)
Skin	(10)	(0)	(0)	(0)	(0)	(10)

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FISCHER 344 RATS MALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
Skeletal Muscle	(1)	(0)	(0)	(0)	(0)	(0)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Mononuclear Cell Inflammation		3 [1.0]		1 [1.0] 1 [2.0]		
Glands, Inflammation, Suppurative Squamous Epithelium, Metaplasia		1 [1.0]		1 [2.0]	1 [1.0]	
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Focal				1 [2.0]		
Metaplasia, Osseous	2 [1.0]		2 [1.0]	2 [1.0]	1 [1.0]	
Alveolar Epithelium, Hyperplasia	1 [1.0]					
Alveolar Epithelium, Infiltration Cellular, Polymorphonuclear	1 [1.0]					
Alveolus, Infiltration Cellular, Histiocyte	4 [1.0]	5 [1.0]	3 [1.0]	2 [1.0]	6 [1.0]	6 [1.0]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epithelium, Atrophy				10 [1.6]	10 [2.2]	10 [2.6]
Respiratory Epithelium, Accumulation, Hyaline Droplet						3 [1.0]
Respiratory Epithelium, Hyperplasia		3 [1.0]	9 [1.2]	9 [1.2]	10 [1.7]	10 [2.7]
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(9)	(10)	(10)	(10)	(10)	(10)
Cornea, Mineralization					1 [1.0]	3 [1.3]

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Species/Strain: RATS/F 344/N

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FISCHER 344 RATS MALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Cornea, Necrosis						1 [1.0]
Cornea, Epithelium, Vacuolation						2 [1.0]
Retina, Degeneration				1 [2.0]		
Harderian Gland	(10)	(0)	(0)	(0)	(1)	(10)
Infiltration Cellular, Mononuclear Cell	1 [1.0]				1 [3.0]	1 [1.0]
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Nephropathy	1 [1.0]		1 [1.0]		1 [1.0]	
Renal Tubule, Cyst				1		
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF MALE ***

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Species/Strain: RATS/F 344/N

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FISCHER 344 RATS FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
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Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(8)	(10)	(10)	(10)	(9)	(10)
Intestine Small, Duodenum	(10)	(10)	(9)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(10)	(10)	(10)	(10)	(10)
Serosa, Inflammation, Chronic		1 [1.0]				
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule	1			1	1 [1.0]	2
Inflammation	1 [1.0]		2 [1.0]	2 [1.0]	1 [1.0]	1 [1.0]
Inflammation, Chronic		1 [1.0]				
Serosa, Fibrosis					1 [1.0]	
Mesentery	(0)	(0)	(2)	(1)	(0)	(0)
Fat, Necrosis, Chronic			2 [2.0]	1 [2.0]		
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy	1 [1.0]					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Cyst						1

CARDIOVASCULAR SYSTEM

Heart	(10)	(0)	(0)	(0)	(1)	(10)
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FISCHER 344 RATS FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Pericardium, Fibrosis					1 [2.0]	
Pericardium, Infiltration Cellular, Mononuclear Cell					1 [1.0]	
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(9)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(1)	(1)	(1)	(10)
Metaplasia, Lipocyte	1 [1.0]					
Periovarian Tissue, Cyst			1	1	1	1
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(1)	(0)	(1)	(1)	(0)
Pancreatic, Hyperplasia, Histiocytic		1 [1.0]		1 [2.0]	1 [2.0]	
Lymph Node, Bronchial	(0)	(0)	(0)	(0)	(0)	(2)
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mediastinal	(5)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)

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FISCHER 344 RATS FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(9)	(10)	(10)	(10)	(10)	(10)
Granuloma				1 [1.0]		
Infiltration Cellular, Mononuclear Cell		1 [1.0]	1 [1.0]			
Inflammation		1 [2.0]				
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Focal						1 [1.0]
Metaplasia, Osseous						1 [1.0]
Mineralization						1 [1.0]
Alveolar Epithelium, Hyperplasia	1 [4.0]					
Alveolus, Infiltration Cellular, Histiocyte	2 [1.0]	1 [1.0]	4 [1.0]	4 [1.0]	7 [1.0]	7 [1.1]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body	1					
Inflammation, Chronic				1 [1.0]	2 [1.0]	
Olfactory Epithelium, Atrophy			4 [1.0]	10 [1.9]	10 [2.5]	10 [2.9]
Respiratory Epithelium, Accumulation, Hyaline Droplet					1 [1.0]	

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FISCHER 344 RATS FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Respiratory Epithelium, Hyperplasia		3 [1.0]	9 [1.1]	10 [1.7]	10 [2.4]	10 [2.7]
Pleura	(0)	(0)	(0)	(0)	(1)	(0)
Hyperplasia					1 [1.0]	
Inflammation, Chronic					1 [3.0]	
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(10)	(10)	(10)	(10)	(10)
Anterior Chamber, Infiltration Cellular, Macrophage						1 [1.0]
Cornea, Edema						1 [2.0]
Cornea, Inflammation, Chronic						1 [2.0]
Cornea, Mineralization						2 [1.0]
Cornea, Necrosis						1 [1.0]
Cornea, Vesicle, Subepithelial						3
Cornea, Epithelium, Ulcer						1 [1.0]
Lens, Cataract						1 [1.0]
Retina, Degeneration			1 [1.0]		2 [2.0]	1 [2.0]
Retina, Dysplasia						1 [2.0]
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell	1 [1.0]					3 [1.0]
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF REPORT ***

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)