

TDMs No. 99019 - 03

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

Date Report Requested: 10/15/2008

Test Type: 90-DAY

Triethylamine

Time Report Requested: 07:47:08

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

F1_Rev.1_R2

C 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: 2.0.0

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Lab: BNW

| 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 | | | | | | |
| 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] | | | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| None | | | | | | |
| ENDOCRINE SYSTEM | | | | | | |
| None | | | | | | |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Prostate | (10) | (0) | (0) | (0) | (0) | (10) |
| Inflammation, Suppurative | 1 [1.0] | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | |

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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|---|----------------|----------|---------|--------------------|----------|---------------------|
| Lymph Node, Mediastinal Ectasia | (7) 1 [2.0] | (0) | (0) | (0) | (0) | (2) |
| INTEGUMENTARY SYSTEM | | | | | | |
| None | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| None | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| None | | | | | | |
| 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 Metaplasia, Osseous | 2 [1.0] | | 2 [1.0] | 1 [2.0] 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 Respiratory Epithelium, Degeneration, Hyaline | | | | 10 [1.6] | 10 [2.2] | 10 [2.6] 3 [1.0] |
| Respiratory Epithelium, Hyperplasia | | 3 [1.0] | 9 [1.2] | 9 [1.2] | 10 [1.7] | 10 [2.7] |

SPECIAL SENSES SYSTEM

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Species/Strain: RATS/F 344/N

Lab: BNW

| FISCHER 344 RATS MALE | CONTROL | 12.5 PPM | 25 PPM | 50 PPM | 100 PPM | 200 PPM |
|--|-----------------|----------|-----------------|-----------|-----------------|-----------------|
| Harderian Gland Infiltration Cellular, Mononuclear Cell | (10) 1 [1.0] | (0) | (0) | (0) | (1) 1 [3.0] | (10) 1 [1.0] |
| URINARY SYSTEM | | | | | | |
| Kidney Nephropathy Renal Tubule, Cyst | (10) 1 [1.0] | (10) | (10) 1 [1.0] | (10) 1 | (10) 1 [1.0] | (10) |

*** END OF MALE ***

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| Disposition Summary | | | | | | |
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| Early Deaths | | | | | | |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | 10 |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| 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] | | | | | |
| Stomach, Glandular | (10) | (10) | (10) | (10) | (10) | (10) |
| Cyst | | | | | | 1 |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Heart | (10) | (0) | (0) | (0) | (1) | (10) |
| Pericardium, Fibrosis | | | | | 1 [2.0] | |
| Pericardium, Infiltration Cellular, Mononuclear Cell | | | | | 1 [1.0] | |
| ENDOCRINE SYSTEM | | | | | | |
| None | | | | | | |
| GENERAL BODY SYSTEM | | | | | | |

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|---|---------|----------|---------|---------|---------|---------|
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Ovary | (10) | (0) | (1) | (1) | (1) | (10) |
| Metaplasia, Lipocyte | 1 [1.0] | | | | | |
| Periovarian Tissue, Cyst | | | 1 | 1 | 1 | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | |
| Lymph Node | (0) | (1) | (0) | (1) | (1) | (0) |
| Pancreatic, Hyperplasia, Histiocytic | | 1 [1.0] | | 1 [2.0] | 1 [2.0] | |
| INTEGUMENTARY SYSTEM | | | | | | |
| None | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| None | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| None | | | | | | |
| 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] |

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| FISCHER 344 RATS FEMALE | CONTROL | 12.5 PPM | 25 PPM | 50 PPM | 100 PPM | 200 PPM |
|--|---------|----------|---------|----------|----------|----------|
| 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, Degeneration, Hyaline | | | | | 1 [1.0] | |
| 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] | |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | (10) | (10) | (10) | (10) | (10) | (10) |
| Cataract | | | | | | 1 [1.0] |
| Cornea, Edema | | | | | | 1 [2.0] |
| Cornea, Inflammation | | | | | | 1 [2.0] |
| Cornea, Mineralization | | | | | | 2 [1.0] |
| Retina, Dysplasia | | | 1 [1.0] | | | 1 [2.0] |
| Retina, Hypoplasia | | | | | 2 [2.0] | |
| Harderian Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Infiltration Cellular, Mononuclear Cell | 1 [1.0] | | | | | 3 [1.0] |
| URINARY SYSTEM | | | | | | |
| None | | | | | | |

*** 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)