

Experiment Number: 07018 - 01

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

Date Report Requested: 01/08/2020

Test Type: 14-WEEK

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

Time Report Requested: 11:06:12

Route: DOSED WATER

CAS Number: 65039-09-0

First Dose M/F: 05/09/13 / 05/10/13

Species/Strain: RATS/HSD

Lab: BAT

Final_1 - EMIM Rats

NTP Study Number: C07018
Lock Date: 05/25/2018
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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Harlan Sprague Dawley RATS MALE

0 mg/mL male

1 mg/mL male

3 mg/mL male

10 mg/mL male

Disposition Summary

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

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell	1 [1.0]			2 [1.0]
Pancreas	(10)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell				1 [1.0]
Acinus, Atrophy	1 [1.0]			
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)
Mineral				3 [1.0]

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(10)
Cardiomyopathy	1 [1.0]			3 [1.0]

ENDOCRINE 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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Harlan Sprague Dawley RATS MALE	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
Adrenal Cortex	(10)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(2)	(0)	(0)	(4)
Pituitary Gland	(10)	(0)	(0)	(10)
Pars Distalis, Cyst				1
Thyroid Gland	(10)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(10)
Inflammation, Chronic Active	2 [2.0]			
Prostate	(10)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(10)
Testis	(10)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)
Atrophy				1 [1.0]

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(10)
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Harlan Sprague Dawley RATS MALE	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
Skin	(10)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(0)	(0)	(10)
NERVOUS SYSTEM				
Brain	(10)	(0)	(0)	(10)
RESPIRATORY SYSTEM				
Lung	(10)	(0)	(0)	(10)
Infiltration Cellular, Histiocyte	2 [1.0]			
Nose	(10)	(0)	(0)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet	5 [1.0]			7 [1.0]
Trachea	(10)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Retina, Dysplasia	1 [1.0]			1 [1.0]
Harderian Gland	(10)	(0)	(0)	(10)
Infiltration Cellular, Lymphocyte	1 [1.0]			
Infiltration Cellular, Mononuclear Cell	1 [1.0]			1 [1.0]
URINARY SYSTEM				
Kidney	(10)	(0)	(0)	(10)
Nephropathy, Chronic Progressive	9 [1.0]			8 [1.0]
Urinary Bladder	(10)	(0)	(0)	(10)

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Lab: BAT

Harlan Sprague Dawley RATS MALE

0 mg/mL male

1 mg/mL male

3 mg/mL male

10 mg/mL male

*** END OF MALE ***

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/HSD

Lab: BAT

Harlan Sprague Dawley RATS FEMALE

0 mg/mL female

1 mg/mL female

3 mg/mL female

10 mg/mL female

Disposition Summary

Animals Initially In Study	10	10	10	10
Early Deaths				
Survivors				
Terminal Sacrifice	10	10	10	10
Animals Examined Microscopically	10	2		10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(1)	(0)	(10)
Clear Cell Focus	1			
Hepatodiaphragmatic Nodule		1		
Infiltration Cellular, Mixed Cell	2 [1.0]			2 [1.0]
Pancreas	(10)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(1)	(0)	(10)
Cyst		1		
Stomach, Glandular	(10)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(10)
Valve, Fibrosis	1 [1.0]			

ENDOCRINE SYSTEM

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Adrenal Cortex	(10)	(0)	(0)	(10)
Hypertrophy, Focal	1 [1.0]			
Bilateral, Hypertrophy, Focal	1 [1.0]			1 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(3)	(0)	(0)	(4)
Pituitary Gland	(10)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(10)	(0)	(0)	(10)
Inflammation, Chronic Active	1 [1.0]			
Ovary	(10)	(0)	(0)	(10)
Uterus	(10)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node	(1)	(0)	(0)	(0)
Mediastinal, Hemorrhage	1 [1.0]			
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(10)
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Skin	(10)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(0)	(0)	(10)
NERVOUS SYSTEM				
Brain	(10)	(0)	(0)	(10)
RESPIRATORY SYSTEM				
Lung	(10)	(0)	(0)	(10)
Infiltration Cellular, Histiocyte	1 [1.0]			1 [1.0]
Inflammation, Chronic	1 [1.0]			
Nose	(10)	(0)	(0)	(10)
Goblet Cell, Respiratory Epithelium, Hyperplasia	1 [1.0]			
Olfactory Epithelium, Accumulation, Hyaline Droplet	7 [1.0]			7 [1.0]
Respiratory Epithelium, Inflammation, Suppurative	3 [1.0]			
Respiratory Epithelium, Metaplasia, Squamous Transitional Epithelium, Inflammation, Suppurative	1 [2.0] 1 [1.0]			
Trachea	(10)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Retina, Dysplasia	1 [1.0]			
Harderian Gland	(10)	(0)	(0)	(10)

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Harlan Sprague Dawley RATS FEMALE

0 mg/mL female

1 mg/mL female

3 mg/mL female

10 mg/mL female

URINARY SYSTEM

Kidney	(10)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell	1 [1.0]			
Nephropathy, Chronic Progressive	4 [1.3]			1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(10)

*** END OF REPORT ***

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

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