

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:43:51
First Dose M/F: 09/07/09 / NA
Lab: NCTR

60 Week

NTP Study Number: C10119

Lock Date: 06/02/2014

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups:	Include 009 0 Vehicle 60 wk	Include 010 0.02 Furan 60 wk	Include 011 0.044 Furan 60wk
	Include 012 0.092 Furan 60wk	Include 013 0.2 Furan 60 wk	Include 014 0.44 Furan 60 wk
	Include 015 0.92 Furan 60 wk	Include 016 2 Furan 60 wk	

Study Gender: Male

TDMSE Version: 3.0.2.0_001

PWG Approval Date: NONE

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FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 wk
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Disposition Summary

Animals Initially In Study	20	10	10	10	10	10
Scheduled Sacrifice	17	9	10	9	9	10
Early Deaths						
Moribund Sacrifice	2	1		1	1	
Natural Death	1					
Survivors						
Animals Examined Microscopically	20	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(20)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Cecum	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(18)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(19)	(10)	(10)	(10)	(10)	(10)
Liver	(20)	(10)	(10)	(10)	(10)	(10)
Leukemia Mononuclear						
Mesentery	(4)	(1)	(1)	(2)	(0)	(0)
Pancreas	(20)	(10)	(10)	(10)	(10)	(10)
Acinar Cell, Adenoma		1 (10%)				
Salivary Glands	(20)	(10)	(10)	(10)	(10)	(10)
Stomach, Forestomach	(20)	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(20)	(10)	(10)	(10)	(10)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(20)	(10)	(10)	(10)	(10)	(10)
Heart	(20)	(10)	(10)	(10)	(10)	(10)
Schwannoma Malignant	1 (5%)					

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

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ENDOCRINE SYSTEM						
Adrenal Cortex	(20)	(10)	(10)	(10)	(10)	(10)
Adrenal Medulla	(20)	(10)	(10)	(10)	(10)	(10)
Pheochromocytoma Benign		1 (10%)				1 (10%)
Islets, Pancreatic	(20)	(10)	(10)	(10)	(10)	(10)
Adenoma						1 (10%)
Parathyroid Gland	(20)	(10)	(10)	(10)	(10)	(10)
Pituitary Gland	(20)	(10)	(10)	(10)	(10)	(10)
Pars Distalis, Adenoma	3 (15%)	3 (30%)	2 (20%)	1 (10%)		7 (70%)
Thyroid Gland	(20)	(10)	(10)	(10)	(10)	(10)
C-cell, Adenoma				1 (10%)	1 (10%)	
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(20)	(10)	(10)	(10)	(10)	(10)
Preputial Gland	(20)	(10)	(10)	(10)	(10)	(10)
Adenoma		1 (10%)		1 (10%)		
Carcinoma	1 (5%)	1 (10%)				
Prostate	(20)	(10)	(10)	(10)	(10)	(10)
Seminal Vesicle	(20)	(10)	(10)	(10)	(10)	(10)
Testes	(20)	(10)	(10)	(10)	(10)	(10)
Bilateral, Interstitial Cell, Adenoma						
Interstitial Cell, Adenoma	6 (30%)	2 (20%)	1 (10%)	3 (30%)	2 (20%)	1 (10%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(20)	(10)	(10)	(10)	(10)	(10)
Leukemia Mononuclear						
Lymph Node	(1)	(0)	(0)	(0)	(0)	(0)

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Lymph Node, Mandibular Leukemia Mononuclear	(20)	(10)	(10)	(10)	(10)	(10)
Lymph Node, Mesenteric Leukemia Mononuclear	(20)	(10)	(10)	(10)	(10)	(10)
Spleen Leukemia Mononuclear	(20)	(10)	(10)	(10)	(10)	(10)
Thymus	(20)	(10)	(10)	(10)	(10)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland Fibroadenoma	(19)	(10)	(9)	(10) 1 (10%)	(9)	(10)
Skin Subcutaneous Tissue, Fibroma	(20) 1 (5%)	(10)	(10)	(10)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(1)	(0)	(0)	(0)	(0)	(0)
Bone, Femur	(20)	(10)	(10)	(10)	(10)	(10)
Skeletal Muscle	(1)	(0)	(0)	(0)	(1)	(0)
NERVOUS SYSTEM						
Brain, Brain Stem	(20)	(10)	(10)	(10)	(10)	(10)
Brain, Cerebellum	(20)	(10)	(10)	(10)	(10)	(10)
Brain, Cerebrum	(20)	(10)	(10)	(10)	(10)	(10)
Brain, NOS	(0)	(0)	(0)	(0)	(0)	(1)
RESPIRATORY SYSTEM						
Lung Leukemia Mononuclear	(20)	(10)	(10)	(10)	(10)	(10)
Nose	(20)	(10)	(10)	(10)	(10)	(10)

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FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 wk
Trachea	(20)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(19)	(10)	(10)	(10)	(10)	(10)
Harderian Gland	(20)	(10)	(10)	(10)	(10)	(10)
URINARY SYSTEM						
Kidney	(20)	(10)	(10)	(10)	(10)	(10)
Urinary Bladder	(20)	(10)	(10)	(10)	(10)	(10)
SYSTEMIC LESIONS						
Multiple Organ Leukemia Mononuclear	*(20)	*(10)	*(10)	*(10)	*(10)	*(10)

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* Number of animals with any tissue examined microscopically

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FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

Disposition Summary

Animals Initially In Study	10	10
Scheduled Sacrifice	10	8
Early Deaths		
Moribund Sacrifice		1
Natural Death		1
Survivors		
Animals Examined Microscopically	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(10)
Intestine Large, Cecum	(10)	(9)
Intestine Large, Colon	(10)	(10)
Intestine Large, Rectum	(10)	(9)
Intestine Small, Duodenum	(10)	(9)
Intestine Small, Ileum	(10)	(9)
Intestine Small, Jejunum	(10)	(9)
Liver	(10)	(10)
Leukemia Mononuclear	1 (10%)	
Mesentery	(0)	(0)
Pancreas	(10)	(10)
Acinar Cell, Adenoma		
Salivary Glands	(10)	(10)
Stomach, Forestomach	(10)	(10)
Stomach, Glandular	(10)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(10)
Heart	(10)	(10)
Schwannoma Malignant		

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FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)
Adrenal Medulla	(10)	(10)
Pheochromocytoma Benign		
Islets, Pancreatic	(10)	(10)
Adenoma		
Parathyroid Gland	(10)	(10)
Pituitary Gland	(10)	(10)
Pars Distalis, Adenoma		2 (20%)
Thyroid Gland	(10)	(10)
C-cell, Adenoma		

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(10)
Preputial Gland	(10)	(10)
Adenoma	1 (10%)	
Carcinoma		
Prostate	(10)	(10)
Seminal Vesicle	(10)	(10)
Testes	(10)	(10)
Bilateral, Interstitial Cell, Adenoma	1 (10%)	
Interstitial Cell, Adenoma	3 (30%)	1 (10%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(10)
Leukemia Mononuclear	1 (10%)	
Lymph Node	(0)	(0)

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FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

Lymph Node, Mandibular	(10)	(10)
Leukemia Mononuclear	1 (10%)	
Lymph Node, Mesenteric	(10)	(10)
Leukemia Mononuclear	1 (10%)	
Spleen	(10)	(10)
Leukemia Mononuclear	1 (10%)	
Thymus	(10)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(10)
Fibroadenoma		
Skin	(10)	(10)
Subcutaneous Tissue, Fibroma		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)
Bone, Femur	(10)	(10)
Skeletal Muscle	(0)	(0)

NERVOUS SYSTEM

Brain, Brain Stem	(10)	(10)
Brain, Cerebellum	(10)	(10)
Brain, Cerebrum	(10)	(10)
Brain, NOS	(0)	(0)

RESPIRATORY SYSTEM

Lung	(10)	(10)
Leukemia Mononuclear	1 (10%)	
Nose	(10)	(10)

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FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
Trachea	(10)	(10)
<hr/>		
SPECIAL SENSES SYSTEM		
Eye	(10)	(10)
Harderian Gland	(10)	(10)
<hr/>		
URINARY SYSTEM		
Kidney	(10)	(10)
Urinary Bladder	(10)	(10)
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SYSTEMIC LESIONS		
Multiple Organ	*(10)	*(10)
Leukemia Mononuclear	1 (10%)	

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* Number of animals with any tissue examined microscopically

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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	11	5	3	6	2	8
Total Primary Neoplasms	12	9	3	7	3	10
Total Animals with Benign Neoplasms	10	4	3	6	2	8
Total Benign Neoplasms	10	8	3	7	3	10
Total Animals with Malignant Neoplasms	2	1				
Total Malignant Neoplasms	2	1				
Total Animals with Metastatic Neoplasms						
Total Metastatic Neoplasms						
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain- Benign or Malignant						
Total Uncertain Neoplasms						

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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FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	5	3
Total Primary Neoplasms	6	3
Total Animals with Benign Neoplasms	4	3
Total Benign Neoplasms	5	3
Total Animals with Malignant Neoplasms	1	
Total Malignant Neoplasms	1	
Total Animals with Metastatic Neoplasms		
Total Metastatic Neoplasms		
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