

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS 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)
Hemorrhage					1 (10%)	
Inflammation, Suppurative					1 (10%)	
Ulcer					1 (10%)	
Periesophageal Tissue, Inflammation, Suppurative						
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)
Inflammation, Chronic Active				1 (10%)		
Mucosa, Hyperplasia				1 (10%)		
Liver	(20)	(10)	(10)	(10)	(10)	(10)
Angiectasis	2 (10%)	1 (10%)		2 (20%)		
Basophilic Focus	1 (5%)					
Cholangiofibrosis						10 (100%)
Clear Cell Focus					1 (10%)	
Eosinophilic Focus						
Granuloma	12 (60%)	9 (90%)	9 (90%)	6 (60%)	8 (80%)	8 (80%)
Hepatodiaphragmatic Nodule	1 (5%)				1 (10%)	
Mixed Cell Focus	1 (5%)		1 (10%)		1 (10%)	1 (10%)
Tension Lipidosis	1 (5%)		2 (20%)	1 (10%)	2 (20%)	

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Vacuolization Cytoplasmic	11 (55%)	8 (80%)	10 (100%)	6 (60%)	9 (90%)	5 (50%)
Bile Duct, Biliary Tract, Hyperplasia	7 (35%)	3 (30%)	1 (10%)	2 (20%)	1 (10%)	2 (20%)
Bile Duct, Subcapsular, Hyperplasia Capsule, Fibrosis					1 (10%)	9 (90%)
Hepatocyte, Hypertrophy						5 (50%)
Hepatocyte, Necrosis		1 (10%)		1 (10%)	1 (10%)	1 (10%)
Oval Cell, Hyperplasia						
Periportal, Cytoplasmic Alteration				1 (10%)		1 (10%)
Subcapsular, Fibrosis					4 (40%)	9 (90%)
Subcapsular, Inflammation, Chronic					8 (80%)	9 (90%)
Subcapsular, Pigmentation					8 (80%)	9 (90%)
Mesentery	(4)	(1)	(1)	(2)	(0)	(0)
Inflammation, Chronic	1 (25%)					
Thrombosis	1 (25%)					
Fat, Necrosis	3 (75%)	1 (100%)	1 (100%)	2 (100%)		
Pancreas	(20)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte	4 (20%)				1 (10%)	1 (10%)
Acinar Cell, Hyperplasia		1 (10%)				
Acinus, Degeneration	6 (30%)	2 (20%)	1 (10%)	3 (30%)	3 (30%)	3 (30%)
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)
Adventitia, Hemorrhage						
Adventitia, Necrosis						
Heart	(20)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy	20 (100%)	8 (80%)	9 (90%)	10 (100%)	9 (90%)	10 (100%)
Adventitia, Inflammation, Suppurative					1 (10%)	
Adventitia, Necrosis					1 (10%)	
Endocardium, Hyperplasia			1 (10%)			
Pericardium, Foreign Body						
Pericardium, Inflammation, Suppurative						

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Pericardium, Necrosis						
ENDOCRINE SYSTEM						
Adrenal Cortex	(20)	(10)	(10)	(10)	(10)	(10)
Hypertrophy	1 (5%)					
Vacuolization Cytoplasmic		1 (10%)			1 (10%)	1 (10%)
Adrenal Medulla	(20)	(10)	(10)	(10)	(10)	(10)
Islets, Pancreatic	(20)	(10)	(10)	(10)	(10)	(10)
Parathyroid Gland	(20)	(10)	(10)	(10)	(10)	(10)
Pituitary Gland	(20)	(10)	(10)	(10)	(10)	(10)
Pars Distalis, Cyst	2 (10%)	1 (10%)	1 (10%)	2 (20%)	1 (10%)	3 (30%)
Pars Distalis, Hyperplasia	9 (45%)	7 (70%)	4 (40%)	3 (30%)	5 (50%)	1 (10%)
Thyroid Gland	(20)	(10)	(10)	(10)	(10)	(10)
Ultimobranchial Cyst						
C-cell, Hyperplasia	6 (30%)	5 (50%)	9 (90%)	6 (60%)	4 (40%)	4 (40%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(20)	(10)	(10)	(10)	(10)	(10)
Exfoliated Germ Cell	3 (15%)	1 (10%)				1 (10%)
Hypospermia	2 (10%)	1 (10%)			1 (10%)	
Preputial Gland	(20)	(10)	(10)	(10)	(10)	(10)
Fibrosis						1 (10%)
Infiltration Cellular, Lymphocyte	2 (10%)					
Inflammation, Suppurative	5 (25%)	4 (40%)	3 (30%)	3 (30%)		3 (30%)
Inflammation, Chronic Active	13 (65%)	6 (60%)	7 (70%)	7 (70%)	9 (90%)	7 (70%)
Acinus, Hyperplasia		1 (10%)			1 (10%)	1 (10%)
Duct, Ectasia	7 (35%)	2 (20%)	1 (10%)	4 (40%)	4 (40%)	5 (50%)
Epithelium, Hyperplasia				1 (10%)		

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Prostate	(20)	(10)	(10)	(10)	(10)	(10)
Degeneration, Cystic						1 (10%)
Infiltration Cellular, Lymphocyte		1 (10%)				
Inflammation, Suppurative	13 (65%)	7 (70%)	3 (30%)	9 (90%)	4 (40%)	8 (80%)
Inflammation, Chronic Active			2 (20%)			
Epithelium, Hyperplasia	3 (15%)					
Seminal Vesicle	(20)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative						
Lumen, Dilatation	1 (5%)					
Testes	(20)	(10)	(10)	(10)	(10)	(10)
Interstitial Cell, Hyperplasia	14 (70%)	8 (80%)	10 (100%)	8 (80%)	9 (90%)	7 (70%)
Seminiferous Tubule, Degeneration	4 (20%)	2 (20%)			3 (30%)	1 (10%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(20)	(10)	(10)	(10)	(10)	(10)
Myeloid Cell, Hyperplasia		1 (10%)		1 (10%)		
Lymph Node	(1)	(0)	(0)	(0)	(0)	(0)
Mediastinal, Hemorrhage	1 (100%)					
Lymph Node, Mandibular	(20)	(10)	(10)	(10)	(10)	(10)
Hemorrhage	1 (5%)					
Hyperplasia, Lymphoid	1 (5%)	1 (10%)			1 (10%)	1 (10%)
Infiltration Cellular, Plasma Cell	2 (10%)	1 (10%)				1 (10%)
Sinus, Dilatation	2 (10%)	1 (10%)	2 (20%)			1 (10%)
Lymph Node, Mesenteric	(20)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Lymphoid		1 (10%)		2 (20%)		1 (10%)
Sinus, Dilatation			1 (10%)			
Spleen	(20)	(10)	(10)	(10)	(10)	(10)
Angiectasis	1 (5%)					
Fibrosis	1 (5%)					
Hematopoietic Cell Proliferation		1 (10%)				
Hemorrhage	1 (5%)					
Hyperplasia, Lymphoid					1 (10%)	
Necrosis	1 (5%)					
Pigmentation	2 (10%)		1 (10%)		1 (10%)	1 (10%)

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Capsule, Fibrosis						
Thymus	(20)	(10)	(10)	(10)	(10)	(10)
Atrophy	19 (95%)	8 (80%)	10 (100%)	10 (100%)	8 (80%)	10 (100%)
Necrosis					1 (10%)	
Adventitia, Inflammation, Suppurative						
Adventitia, Necrosis						
INTEGUMENTARY SYSTEM						
Mammary Gland	(19)	(10)	(9)	(10)	(9)	(10)
Galactocele	1 (5%)		1 (11%)	1 (10%)		1 (10%)
Inflammation, Chronic Active				1 (10%)		
Alveolus, Dilatation	1 (5%)	3 (30%)				1 (10%)
Epithelium, Hyperplasia						1 (10%)
Skin	(20)	(10)	(10)	(10)	(10)	(10)
Abscess						
Cyst Epithelial Inclusion	1 (5%)					
Fibrosis					1 (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)
Fibrosis					1 (100%)	
Hemorrhage	1 (100%)					
Necrosis	1 (100%)					
NERVOUS SYSTEM						
Brain, Brain Stem	(20)	(10)	(10)	(10)	(10)	(10)
Compression	1 (5%)	1 (10%)				1 (10%)
Brain, Cerebellum	(20)	(10)	(10)	(10)	(10)	(10)
Brain, Cerebrum	(20)	(10)	(10)	(10)	(10)	(10)

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Brain, NOS	(0)	(0)	(0)	(0)	(0)	(1)
RESPIRATORY SYSTEM						
Lung	(20)	(10)	(10)	(10)	(10)	(10)
Congestion						
Histiocytosis	1 (5%)			1 (10%)		
Infiltration Cellular, Histiocyte	3 (15%)			2 (20%)		
Inflammation, Chronic Active	1 (5%)					
Pleura, Foreign Body						
Pleura, Inflammation, Suppurative					1 (10%)	
Pleura, Necrosis					1 (10%)	
Nose	(20)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative				1 (10%)		
Goblet Cell, Hyperplasia	1 (5%)				1 (10%)	
Trachea	(20)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(19)	(10)	(10)	(10)	(10)	(10)
Cataract	1 (5%)					
Harderian Gland	(20)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte	1 (5%)		2 (20%)	1 (10%)		
Acinus, Degeneration			1 (10%)			
URINARY SYSTEM						
Kidney	(20)	(10)	(10)	(10)	(10)	(10)
Hydronephrosis	3 (15%)	1 (10%)		2 (20%)	2 (20%)	
Nephropathy	20 (100%)	10 (100%)	10 (100%)	10 (100%)	9 (90%)	10 (100%)
Polyarteritis			1 (10%)			
Urinary Bladder	(20)	(10)	(10)	(10)	(10)	(10)
Hemorrhage						
Lumen, Dilatation						

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FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
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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)
Hemorrhage		
Inflammation, Suppurative		
Ulcer		
Periesophageal Tissue, Inflammation, Suppurative		1 (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)
Inflammation, Chronic Active		
Mucosa, Hyperplasia		
Liver	(10)	(10)
Angiectasis		2 (20%)
Basophilic Focus		
Cholangiofibrosis	10 (100%)	8 (80%)
Clear Cell Focus	1 (10%)	1 (10%)
Eosinophilic Focus		1 (10%)
Granuloma	8 (80%)	8 (80%)
Hepatodiaphragmatic Nodule		
Mixed Cell Focus	3 (30%)	6 (60%)
Tension Lipidosis		2 (20%)

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FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
Vacuolization Cytoplasmic	9 (90%)	8 (80%)
Bile Duct, Biliary Tract, Hyperplasia	3 (30%)	8 (80%)
Bile Duct, Subcapsular, Hyperplasia	10 (100%)	7 (70%)
Capsule, Fibrosis		1 (10%)
Hepatocyte, Hypertrophy	4 (40%)	8 (80%)
Hepatocyte, Necrosis	1 (10%)	1 (10%)
Oval Cell, Hyperplasia	3 (30%)	7 (70%)
Periportal, Cytoplasmic Alteration	7 (70%)	8 (80%)
Subcapsular, Fibrosis	10 (100%)	7 (70%)
Subcapsular, Inflammation, Chronic	10 (100%)	7 (70%)
Subcapsular, Pigmentation	10 (100%)	7 (70%)
Mesentery	(0)	(0)
Inflammation, Chronic		
Thrombosis		
Fat, Necrosis		
Pancreas	(10)	(10)
Infiltration Cellular, Lymphocyte		
Acinar Cell, Hyperplasia		
Acinus, Degeneration	4 (40%)	2 (20%)
Salivary Glands	(10)	(10)
Stomach, Forestomach	(10)	(10)
Stomach, Glandular	(10)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(10)
Adventitia, Hemorrhage		1 (10%)
Adventitia, Necrosis		1 (10%)
Heart	(10)	(10)
Cardiomyopathy	9 (90%)	8 (80%)
Adventitia, Inflammation, Suppurative		
Adventitia, Necrosis		
Endocardium, Hyperplasia		
Pericardium, Foreign Body		1 (10%)
Pericardium, Inflammation, Suppurative		1 (10%)

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FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

Pericardium, Necrosis

1 (10%)

ENDOCRINE SYSTEM

Adrenal Cortex

(10)

(10)

Hypertrophy

Vacuolization Cytoplasmic

Adrenal Medulla

(10)

(10)

Islets, Pancreatic

(10)

(10)

Parathyroid Gland

(10)

(10)

Pituitary Gland

(10)

(10)

Pars Distalis, Cyst

4 (40%)

2 (20%)

Pars Distalis, Hyperplasia

6 (60%)

4 (40%)

Thyroid Gland

(10)

(10)

Ultimobranchial Cyst

1 (10%)

C-cell, Hyperplasia

6 (60%)

2 (20%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis

(10)

(10)

Exfoliated Germ Cell

3 (30%)

Hypospermia

3 (30%)

Preputial Gland

(10)

(10)

Fibrosis

Infiltration Cellular, Lymphocyte

Inflammation, Suppurative

3 (30%)

1 (10%)

Inflammation, Chronic Active

7 (70%)

6 (60%)

Acinus, Hyperplasia

1 (10%)

Duct, Ectasia

3 (30%)

Epithelium, Hyperplasia

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Prostate	(10)	(10)
Degeneration, Cystic		
Infiltration Cellular, Lymphocyte	1 (10%)	
Inflammation, Suppurative	3 (30%)	4 (40%)
Inflammation, Chronic Active		
Epithelium, Hyperplasia	1 (10%)	
Seminal Vesicle	(10)	(10)
Inflammation, Suppurative	1 (10%)	
Lumen, Dilatation		
Testes	(10)	(10)
Interstitial Cell, Hyperplasia	8 (80%)	7 (70%)
Seminiferous Tubule, Degeneration	4 (40%)	

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(10)
Myeloid Cell, Hyperplasia		1 (10%)
Lymph Node	(0)	(0)
Mediastinal, Hemorrhage		
Lymph Node, Mandibular	(10)	(10)
Hemorrhage		
Hyperplasia, Lymphoid		1 (10%)
Infiltration Cellular, Plasma Cell		
Sinus, Dilatation		
Lymph Node, Mesenteric	(10)	(10)
Hyperplasia, Lymphoid		1 (10%)
Sinus, Dilatation		
Spleen	(10)	(10)
Angiectasis		
Fibrosis		
Hematopoietic Cell Proliferation		1 (10%)
Hemorrhage		
Hyperplasia, Lymphoid		
Necrosis		
Pigmentation	1 (10%)	

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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

Capsule, Fibrosis		1 (10%)
Thymus	(10)	(10)
Atrophy	9 (90%)	7 (70%)
Necrosis		
Adventitia, Inflammation, Suppurative		1 (10%)
Adventitia, Necrosis		1 (10%)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(10)
Galactocele		
Inflammation, Chronic Active		
Alveolus, Dilatation	1 (10%)	
Epithelium, Hyperplasia		
Skin	(10)	(10)
Abscess	1 (10%)	
Cyst Epithelial Inclusion		1 (10%)
Fibrosis		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)
Bone, Femur	(10)	(10)
Skeletal Muscle	(0)	(0)
Fibrosis		
Hemorrhage		
Necrosis		

NERVOUS SYSTEM

Brain, Brain Stem	(10)	(10)
Compression		
Brain, Cerebellum	(10)	(10)
Brain, Cerebrum	(10)	(10)

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS 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

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
Brain, NOS	(0)	(0)
RESPIRATORY SYSTEM		
Lung	(10)	(10)
Congestion		1 (10%)
Histiocytosis		
Infiltration Cellular, Histiocyte	4 (40%)	2 (20%)
Inflammation, Chronic Active		
Pleura, Foreign Body		1 (10%)
Pleura, Inflammation, Suppurative		1 (10%)
Pleura, Necrosis		1 (10%)
Nose	(10)	(10)
Inflammation, Suppurative		
Goblet Cell, Hyperplasia		
Trachea	(10)	(10)
SPECIAL SENSES SYSTEM		
Eye	(10)	(10)
Cataract		
Harderian Gland	(10)	(10)
Infiltration Cellular, Lymphocyte	1 (10%)	3 (30%)
Acinus, Degeneration		
URINARY SYSTEM		
Kidney	(10)	(10)
Hydronephrosis		3 (30%)
Nephropathy	10 (100%)	8 (80%)
Polyarteritis		
Urinary Bladder	(10)	(10)
Hemorrhage		1 (10%)
Lumen, Dilatation		1 (10%)

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

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

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FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 60 wk

2 Furan 60 wk

*** END OF REPORT ***

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