

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: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

104 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 001 0 Vehicle 104 wk
Include 004 0.092 Furan104wk
Include 007 0.92 Furan 104wk

Include 002 0.02 Furan 104wk
Include 005 0.2 Furan 104 wk
Include 008 2 Furan 104 wk

Include 003 0.044 Furan104wk
Include 006 0.44 Furan 104wk

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 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
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Disposition Summary

Animals Initially In Study	150	150	100	100	50	50
Early Deaths						
Accidentally Killed				1		
Moribund Sacrifice	71	68	45	38	19	20
Natural Death	8	3	7	6	2	5
Survivors						
Moribund Sacrifice	24	30	17	25	12	11
Natural Death	2	7	3	2	1	1
Terminal Sacrifice	45	42	28	28	16	13
Animals Examined Microscopically	150	150	100	100	50	50

ALIMENTARY SYSTEM

Esophagus	(150)	(150)	(100)	(100)	(50)	(50)
Intestine Large, Cecum	(140)	(142)	(91)	(93)	(47)	(44)
Fibrous Histiocytoma		1 (1%)				
Leukemia Mononuclear	1 (1%)		1 (1%)	1 (1%)	1 (2%)	1 (2%)
Mesothelioma Malignant	1 (1%)					
Intestine Large, Colon	(143)	(146)	(94)	(95)	(49)	(44)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Adenoma		1 (1%)			1 (2%)	
Fibrous Histiocytoma		1 (1%)				
Leukemia Mononuclear		1 (1%)	1 (1%)			1 (2%)
Mesothelioma Malignant	1 (1%)					
Intestine Large, Rectum	(143)	(146)	(94)	(95)	(49)	(45)
Intestine Small, Duodenum	(144)	(145)	(94)	(95)	(48)	(44)
Leukemia Mononuclear		1 (1%)	1 (1%)	1 (1%)	1 (2%)	1 (2%)
Mesothelioma Malignant	1 (1%)					
Intestine Small, Ileum	(139)	(142)	(91)	(92)	(47)	(44)
Leukemia Mononuclear		1 (1%)	1 (1%)	1 (1%)		1 (2%)
Mesothelioma Malignant	1 (1%)					
Intestine Small, Jejunum	(140)	(142)	(91)	(93)	(47)	(44)
Adenoma					1 (2%)	
Fibrous Histiocytoma		1 (1%)				

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Leiomyosarcoma						
Leukemia Mononuclear		1 (1%)	1 (1%)	2 (2%)	1 (2%)	1 (2%)
Mesothelioma Malignant	1 (1%)					
Liver	(149)	(150)	(99)	(100)	(50)	(49)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Fibrous Histiocytoma		1 (1%)				
Fibrous Histiocytoma, Metastatic, Skin				1 (1%)		
Hepatocellular Adenoma	2 (1%)	2 (1%)	1 (1%)	2 (2%)		1 (2%)
Hepatocellular Carcinoma	3 (2%)					
Hepatocholangiocarcinoma						
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum						
Leukemia Mononuclear	46 (31%)	56 (37%)	36 (36%)	44 (44%)	29 (58%)	16 (33%)
Lymphoma Malignant		1 (1%)				
Mesothelioma Malignant	1 (1%)					1 (2%)
Sarcoma, Metastatic, Skin						
Mesentery	(31)	(35)	(25)	(25)	(14)	(8)
Adenocarcinoma, Metastatic, Prostate		1 (3%)				
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum						
Leukemia Mononuclear	1 (3%)	4 (11%)	1 (4%)	1 (4%)	1 (7%)	1 (13%)
Lipoma	1 (3%)					
Mesothelioma Malignant	1 (3%)	2 (6%)	1 (4%)			
Sarcoma		1 (3%)				
Oral Mucosa	(1)	(1)	(3)	(1)	(0)	(1)
Squamous Cell Carcinoma		1 (100%)		1 (100%)		
Squamous Cell Papilloma	1 (100%)		2 (67%)			
Pancreas	(150)	(149)	(99)	(100)	(50)	(49)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum						
Leukemia Mononuclear	4 (3%)	9 (6%)	9 (9%)	6 (6%)	4 (8%)	3 (6%)
Mesothelioma Malignant	1 (1%)					1 (2%)
Acinar Cell, Adenoma	22 (15%)	20 (13%)	19 (19%)	22 (22%)	7 (14%)	5 (10%)
Acinar Cell, Adenoma, Multiple	17 (11%)	10 (7%)	4 (4%)	11 (11%)	2 (4%)	5 (10%)
Acinar Cell, Carcinoma	1 (1%)	1 (1%)				
Salivary Glands	(150)	(150)	(99)	(100)	(50)	(49)

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Adenocarcinoma		1 (1%)				
Adenoma				1 (1%)		
Leukemia Mononuclear	1 (1%)	3 (2%)	3 (3%)		1 (2%)	2 (4%)
Sarcoma				1 (1%)		
Schwannoma Malignant				1 (1%)		
Stomach, Forestomach	(149)	(150)	(99)	(100)	(50)	(49)
Leukemia Mononuclear		3 (2%)	1 (1%)	1 (1%)	1 (2%)	
Mesothelioma Malignant	1 (1%)					
Squamous Cell Papilloma				1 (1%)		1 (2%)
Stomach, Glandular	(146)	(145)	(96)	(97)	(49)	(44)
Adenocarcinoma		1 (1%)				
Leukemia Mononuclear		2 (1%)	2 (2%)		2 (4%)	
Mesothelioma Malignant	1 (1%)					
Tongue	(1)	(1)	(1)	(2)	(0)	(0)
Squamous Cell Carcinoma		1 (100%)				
Squamous Cell Papilloma	1 (100%)			1 (50%)		
CARDIOVASCULAR SYSTEM						
Blood Vessel	(150)	(150)	(100)	(100)	(49)	(50)
Leukemia Mononuclear	1 (1%)	2 (1%)	3 (3%)			1 (2%)
Adventitia, Sarcoma				1 (1%)		
Heart	(150)	(150)	(100)	(100)	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Carcinoma, Metastatic, Preputial Gland			1 (1%)			
Hemangiosarcoma				1 (1%)		
Leukemia Mononuclear	21 (14%)	29 (19%)	19 (19%)	19 (19%)	16 (32%)	10 (20%)
Schwannoma Benign						1 (2%)
Schwannoma Malignant	6 (4%)	5 (3%)	3 (3%)	2 (2%)	2 (4%)	4 (8%)
Atrium, Mesothelioma Nos						1 (2%)
ENDOCRINE SYSTEM						
Adrenal Cortex	(150)	(150)	(99)	(100)	(50)	(49)
Adenoma		5 (3%)				1 (2%)

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Leukemia Mononuclear	11 (7%)	19 (13%)	10 (10%)	10 (10%)	10 (20%)	5 (10%)
Mesothelioma Malignant						1 (2%)
Adrenal Medulla	(150)	(150)	(99)	(100)	(50)	(49)
Leukemia Mononuclear	15 (10%)	15 (10%)	7 (7%)	7 (7%)	10 (20%)	2 (4%)
Pheochromocytoma Benign	31 (21%)	34 (23%)	17 (17%)	17 (17%)	10 (20%)	7 (14%)
Pheochromocytoma Benign, Multiple		1 (1%)				
Pheochromocytoma Complex				1 (1%)		
Pheochromocytoma Malignant	4 (3%)	4 (3%)	4 (4%)	4 (4%)	4 (8%)	1 (2%)
Bilateral, Pheochromocytoma Benign	9 (6%)	6 (4%)	7 (7%)	8 (8%)	1 (2%)	2 (4%)
Bilateral, Pheochromocytoma Malignant	1 (1%)			1 (1%)		
Islets, Pancreatic	(150)	(150)	(99)	(100)	(50)	(49)
Adenoma	23 (15%)	18 (12%)	13 (13%)	15 (15%)	7 (14%)	8 (16%)
Carcinoma	3 (2%)		3 (3%)	1 (1%)		1 (2%)
Leukemia Mononuclear			3 (3%)			
Parathyroid Gland	(149)	(150)	(98)	(98)	(50)	(49)
Adenoma	1 (1%)					
Pituitary Gland	(150)	(148)	(100)	(100)	(50)	(49)
Craniopharyngioma	1 (1%)					
Leukemia Mononuclear	7 (5%)	9 (6%)	9 (9%)	6 (6%)	4 (8%)	3 (6%)
Pars Distalis, Adenoma	104 (69%)	104 (70%)	64 (64%)	68 (68%)	37 (74%)	35 (71%)
Pars Distalis, Carcinoma	2 (1%)			1 (1%)		
Pars Intermedia, Adenoma	1 (1%)					
Thyroid Gland	(150)	(150)	(99)	(100)	(50)	(49)
Leukemia Mononuclear			1 (1%)			
C-cell, Adenoma	10 (7%)	15 (10%)	9 (9%)	13 (13%)	7 (14%)	8 (16%)
C-cell, Adenoma, Multiple	1 (1%)					
C-cell, Carcinoma	1 (1%)	6 (4%)	2 (2%)	1 (1%)	1 (2%)	1 (2%)
Follicular Cell, Adenoma		2 (1%)	5 (5%)		1 (2%)	1 (2%)
Follicular Cell, Carcinoma	2 (1%)	3 (2%)	2 (2%)	1 (1%)		

GENERAL BODY SYSTEM

Peritoneum	(1)	(5)	(1)	(0)	(0)	(1)
Tunica Vaginalis, Mesothelioma Malignant	1 (100%)	5 (100%)	1 (100%)			1 (100%)
Tissue NOS	(2)	(1)	(2)	(2)	(0)	(0)

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Carcinoma, Metastatic, Preputial Gland			1 (50%)			
Leukemia Mononuclear						
Abdominal, Lipoma				1 (50%)		
Abdominal, Paraganglioma Malignant				1 (50%)		
Thoracic, Leukemia Mononuclear		1 (100%)				
GENITAL SYSTEM						
Ductus Deferens	(0)	(1)	(0)	(0)	(0)	(0)
Adenocarcinoma, Metastatic, Prostate		1 (100%)				
Epididymis	(149)	(149)	(98)	(100)	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Leukemia Mononuclear	2 (1%)	1 (1%)				1 (2%)
Mesothelioma Malignant	6 (4%)	8 (5%)	1 (1%)	2 (2%)		2 (4%)
Preputial Gland	(150)	(150)	(99)	(100)	(50)	(49)
Adenoma	9 (6%)	8 (5%)	4 (4%)	8 (8%)	3 (6%)	6 (12%)
Adenoma, Multiple		1 (1%)				
Carcinoma	13 (9%)	4 (3%)	7 (7%)	16 (16%)	3 (6%)	4 (8%)
Leukemia Mononuclear	4 (3%)	3 (2%)	6 (6%)	1 (1%)	1 (2%)	3 (6%)
Sarcoma, Metastatic, Skin						
Squamous Cell Carcinoma	3 (2%)	5 (3%)	5 (5%)	4 (4%)	2 (4%)	
Squamous Cell Papilloma		2 (1%)	2 (2%)	1 (1%)		
Bilateral, Adenoma		1 (1%)				
Prostate	(149)	(150)	(98)	(100)	(50)	(49)
Adenocarcinoma, Mucinous		1 (1%)				
Adenoma	5 (3%)	4 (3%)	3 (3%)	3 (3%)	2 (4%)	3 (6%)
Adenoma, Multiple				1 (1%)		
Leukemia Mononuclear	3 (2%)	6 (4%)	5 (5%)	2 (2%)	5 (10%)	3 (6%)
Mesothelioma Malignant	1 (1%)	1 (1%)				1 (2%)
Seminal Vesicle	(143)	(146)	(96)	(98)	(50)	(46)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Leukemia Mononuclear		5 (3%)	3 (3%)	1 (1%)		2 (4%)
Mesothelioma Malignant	1 (1%)					1 (2%)
Testes	(150)	(149)	(98)	(100)	(50)	(49)
Leukemia Mononuclear	1 (1%)	2 (1%)	1 (1%)			

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Mesothelioma Malignant	5 (3%)	7 (5%)	1 (1%)	1 (1%)		2 (4%)
Bilateral, Interstitial Cell, Adenoma	32 (21%)	28 (19%)	22 (22%)	24 (24%)	14 (28%)	13 (27%)
Interstitial Cell, Adenoma	46 (31%)	47 (32%)	30 (31%)	30 (30%)	18 (36%)	15 (31%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(148)	(150)	(95)	(100)	(49)	(49)
Leukemia Mononuclear	27 (18%)	35 (23%)	23 (24%)	24 (24%)	19 (39%)	9 (18%)
Lymph Node	(59)	(69)	(35)	(38)	(23)	(20)
Axillary, Leukemia Mononuclear	3 (5%)	4 (6%)	3 (9%)	1 (3%)		2 (10%)
Axillary, Lymphoma Malignant		1 (1%)				
Cervical, Leukemia Mononuclear	3 (5%)	4 (6%)	2 (6%)	2 (5%)		3 (15%)
Cervical, Lymphoma Malignant		1 (1%)				
Deep Cervical, Leukemia Mononuclear	1 (2%)		2 (6%)		1 (4%)	
Hepatic, Leukemia Mononuclear	1 (2%)	3 (4%)	2 (6%)			
Inguinal, Leukemia Mononuclear			1 (3%)			
Lumbar, Leukemia Mononuclear	10 (17%)	15 (22%)	7 (20%)	5 (13%)	3 (13%)	3 (15%)
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland	1 (2%)					
Mediastinal, Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Mediastinal, Fibrous Histiocytoma		1 (1%)				
Mediastinal, Leukemia Mononuclear	9 (15%)	11 (16%)	7 (20%)	5 (13%)	5 (22%)	4 (20%)
Mediastinal, Lymphoma Malignant		1 (1%)				
Pancreatic, Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Pancreatic, Leukemia Mononuclear	19 (32%)	20 (29%)	7 (20%)	13 (34%)	11 (48%)	5 (25%)
Pancreatic, Lymphoma Malignant		1 (1%)				
Popliteal, Leukemia Mononuclear						
Renal, Leukemia Mononuclear	13 (22%)	11 (16%)	6 (17%)	4 (11%)	3 (13%)	2 (10%)
Renal, Lymphoma Malignant		1 (1%)				
Lymph Node, Mandibular	(150)	(150)	(99)	(100)	(50)	(49)
Fibrous Histiocytoma		1 (1%)				
Leukemia Mononuclear	22 (15%)	29 (19%)	13 (13%)	17 (17%)	17 (34%)	8 (16%)
Lymphoma Malignant		1 (1%)				
Lymph Node, Mesenteric	(147)	(146)	(93)	(97)	(49)	(47)

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Fibrous Histiocytoma		1 (1%)				
Leukemia Mononuclear	24 (16%)	27 (18%)	18 (19%)	20 (21%)	19 (39%)	10 (21%)
Lymphoma Malignant		1 (1%)				
Mesothelioma Malignant						1 (2%)
Spleen	(150)	(149)	(98)	(100)	(50)	(49)
Fibrous Histiocytoma		1 (1%)				
Hemangiosarcoma			1 (1%)			
Histiocytic Sarcoma					1 (2%)	
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum						
Leukemia Mononuclear	47 (31%)	56 (38%)	36 (37%)	44 (44%)	28 (56%)	18 (37%)
Lymphoma Malignant		1 (1%)				
Mesothelioma Malignant	1 (1%)					1 (2%)
Thymus	(144)	(149)	(98)	(98)	(49)	(48)
Leukemia Mononuclear	10 (7%)	7 (5%)	6 (6%)	5 (5%)	3 (6%)	3 (6%)
Thymoma Benign	1 (1%)					
Thymoma Malignant		1 (1%)				
Adventitia, Sarcoma				1 (1%)		
INTEGUMENTARY SYSTEM						
Mammary Gland	(150)	(148)	(95)	(100)	(50)	(50)
Adenocarcinoma	1 (1%)		2 (2%)	1 (1%)		1 (2%)
Adenoma	1 (1%)			1 (1%)		1 (2%)
Fibroadenoma	7 (5%)	4 (3%)	8 (8%)	4 (4%)	2 (4%)	4 (8%)
Fibroadenoma, Multiple				1 (1%)	1 (2%)	
Leukemia Mononuclear		1 (1%)		1 (1%)	1 (2%)	
Skin	(150)	(150)	(100)	(99)	(50)	(50)
Basal Cell Adenoma		2 (1%)		1 (1%)	1 (2%)	1 (2%)
Basal Cell Carcinoma				1 (1%)		
Keratoacanthoma		1 (1%)		1 (1%)		
Leukemia Mononuclear		1 (1%)				1 (2%)
Lymphoma Malignant		1 (1%)				
Squamous Cell Carcinoma	2 (1%)	1 (1%)				
Squamous Cell Papilloma	1 (1%)	1 (1%)	2 (2%)	3 (3%)		1 (2%)

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Trichoepithelioma		1 (1%)				
Dermis, Fibroma						1 (2%)
Dermis, Hemangioma			1 (1%)			
Lip, Fibrous Histiocytoma	1 (1%)					
Scrotum, Mesothelioma Malignant		1 (1%)				
Sebaceous Gland, Adenoma			1 (1%)		1 (2%)	
Subcutaneous Tissue, Fibroma	6 (4%)	6 (4%)	3 (3%)	4 (4%)	2 (4%)	2 (4%)
Subcutaneous Tissue, Fibrosarcoma	2 (1%)		2 (2%)			
Subcutaneous Tissue, Fibrous Histiocytoma	1 (1%)			1 (1%)		
Subcutaneous Tissue, Lipoma	3 (2%)	4 (3%)	4 (4%)	3 (3%)	2 (4%)	
Subcutaneous Tissue, Liposarcoma	1 (1%)					
Subcutaneous Tissue, Sarcoma		1 (1%)				1 (2%)
Subcutaneous Tissue, Schwannoma Malignant	1 (1%)					

MUSCULOSKELETAL SYSTEM

Bone	(5)	(1)	(0)	(0)	(1)	(0)
Mandible, Osteosarcoma	1 (20%)					
Pelvis, Osteosarcoma					1 (100%)	
Vertebra, Osteosarcoma	1 (20%)					
Bone, Femur	(150)	(150)	(100)	(100)	(50)	(50)
Skeletal Muscle	(7)	(4)	(2)	(1)	(1)	(1)
Fibrous Histiocytoma	1 (14%)					
Lipoma	1 (14%)					
Mesothelioma Malignant	2 (29%)	2 (50%)	1 (50%)			1 (100%)
Osteosarcoma, Metastatic, Bone					1 (100%)	
Rhabdomyosarcoma	1 (14%)					
Diaphragm, Adenocarcinoma, Metastatic, Prostate		1 (25%)				

NERVOUS SYSTEM

Brain	(0)	(0)	(0)	(0)	(0)	(0)
Meninges, Granular Cell Tumor Benign						
Brain, Brain Stem	(150)	(150)	(99)	(100)	(50)	(50)

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Astrocytoma Malignant	1 (1%)					
Carcinoma, Metastatic, Pituitary Gland				1 (1%)		
Leukemia Mononuclear	1 (1%)	4 (3%)	1 (1%)	2 (2%)		1 (2%)
Brain, Cerebellum	(150)	(149)	(99)	(100)	(50)	(50)
Granular Cell Tumor Benign	1 (1%)					
Leukemia Mononuclear	2 (1%)	4 (3%)	2 (2%)	3 (3%)	1 (2%)	
Brain, Cerebrum	(150)	(150)	(99)	(100)	(50)	(50)
Astrocytoma Malignant	1 (1%)					
Carcinoma, Metastatic, Pituitary Gland	1 (1%)					
Granular Cell Tumor Malignant	1 (1%)					
Leukemia Mononuclear	1 (1%)	4 (3%)	2 (2%)	4 (4%)		
Oligodendroglioma Malignant			1 (1%)			
Peripheral Nerve	(1)	(1)	(1)	(1)	(0)	(0)
Spinal Cord, Cervical	(1)	(1)	(1)	(1)	(0)	(0)
Leukemia Mononuclear				1 (100%)		
Spinal Cord, Lumbar	(1)	(1)	(1)	(1)	(0)	(0)
Leukemia Mononuclear				1 (100%)		
Schwannoma Malignant		1 (100%)				
Spinal Cord, Thoracic	(1)	(1)	(1)	(1)	(0)	(0)
Leukemia Mononuclear				1 (100%)		
RESPIRATORY SYSTEM						
Lung	(150)	(149)	(99)	(100)	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		1 (1%)				
Alveolar/Bronchiolar Adenoma	1 (1%)		2 (2%)			1 (2%)
Alveolar/Bronchiolar Carcinoma						2 (4%)
Carcinoma, Metastatic, Preputial Gland			1 (1%)			
Fibrous Histiocytoma	1 (1%)	1 (1%)				
Hepatocholangiocarcinoma, Metastatic, Liver						
Leukemia Mononuclear	34 (23%)	39 (26%)	26 (26%)	25 (25%)	20 (40%)	14 (28%)
Lymphoma Malignant		1 (1%)				
Squamous Cell Carcinoma	1 (1%)					
Nose	(149)	(146)	(96)	(97)	(48)	(48)
Fibrous Histiocytoma		1 (1%)				

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Squamous Cell Carcinoma, Deep Invasion Trachea	(150)	1 (1%) (150)	(99)	(100)	(50)	(50)
SPECIAL SENSES SYSTEM						
Ear	(1)	(0)	(3)	(0)	(1)	(0)
Neural Crest Tumor	1 (100%)		2 (67%)		1 (100%)	
Squamous Cell Papilloma			1 (33%)			
Eye	(144)	(143)	(92)	(96)	(48)	(45)
Leukemia Mononuclear				1 (1%)		
Harderian Gland	(150)	(150)	(99)	(100)	(50)	(49)
Leukemia Mononuclear		1 (1%)		2 (2%)		
Zymbal's Gland	(6)	(3)	(2)	(3)	(0)	(1)
Adenoma	1 (17%)	2 (67%)				
Carcinoma	1 (17%)			2 (67%)		
Squamous Cell Carcinoma	3 (50%)		1 (50%)	1 (33%)		1 (100%)
Squamous Cell Papilloma		1 (33%)	1 (50%)			
URINARY SYSTEM						
Kidney	(150)	(150)	(99)	(100)	(50)	(49)
Fibrous Histiocytoma		1 (1%)				
Leukemia Mononuclear	14 (9%)	16 (11%)	13 (13%)	9 (9%)	9 (18%)	6 (12%)
Liposarcoma		1 (1%)				
Lymphoma Malignant		1 (1%)				
Mesenchymal Tumor Malignant			1 (1%)			
Transitional Epithelial Carcinoma	1 (1%)			1 (1%)		
Renal Tubule, Adenoma	1 (1%)	1 (1%)				
Renal Tubule, Carcinoma	3 (2%)				1 (2%)	
Urethra	(0)	(2)	(0)	(1)	(0)	(0)
Urinary Bladder	(150)	(150)	(99)	(100)	(50)	(48)
Leukemia Mononuclear		3 (2%)	4 (4%)	2 (2%)	1 (2%)	3 (6%)
Mesothelioma Malignant	1 (1%)					1 (2%)
Transitional Epithelium, Papilloma		1 (1%)			1 (2%)	1 (2%)

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
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SYSTEMIC LESIONS

Multiple Organ	*(150)	*(150)	*(100)	*(100)	*(50)	*(50)
Histiocytic Sarcoma					1 (2%)	
Leukemia Mononuclear	47 (31%)	56 (37%)	36 (36%)	44 (44%)	29 (58%)	18 (36%)
Lymphoma Malignant		1 (1%)				
Mesothelioma Malignant	6 (4%)	9 (6%)	1 (1%)	2 (2%)		2 (4%)
Mesothelioma Nos						1 (2%)

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

* Number of animals with any tissue examined microscopically

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: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
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Disposition Summary

Animals Initially In Study	50	50
Early Deaths		
Accidentally Killed		
Moribund Sacrifice	29	22
Natural Death		5
Survivors		
Moribund Sacrifice	9	15
Natural Death		
Terminal Sacrifice	12	8
Animals Examined Microscopically	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)
Intestine Large, Cecum	(50)	(46)
Fibrous Histiocytoma		
Leukemia Mononuclear		
Mesothelioma Malignant		
Intestine Large, Colon	(50)	(46)
Adenocarcinoma, Metastatic, Prostate		
Adenoma		
Fibrous Histiocytoma		
Leukemia Mononuclear		
Mesothelioma Malignant		
Intestine Large, Rectum	(50)	(48)
Intestine Small, Duodenum	(50)	(47)
Leukemia Mononuclear		
Mesothelioma Malignant		
Intestine Small, Ileum	(49)	(46)
Leukemia Mononuclear		
Mesothelioma Malignant		
Intestine Small, Jejunum	(50)	(46)
Adenoma		
Fibrous Histiocytoma		

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Leiomyosarcoma	1 (2%)	
Leukemia Mononuclear		
Mesothelioma Malignant		
Liver	(50)	(49)
Adenocarcinoma, Metastatic, Prostate		
Fibrous Histiocytoma		
Fibrous Histiocytoma, Metastatic, Skin		
Hepatocellular Adenoma	1 (2%)	3 (6%)
Hepatocellular Carcinoma		
Hepatocholangiocarcinoma		2 (4%)
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum	1 (2%)	
Leukemia Mononuclear	27 (54%)	27 (55%)
Lymphoma Malignant		
Mesothelioma Malignant		
Sarcoma, Metastatic, Skin	1 (2%)	
Mesentery	(14)	(10)
Adenocarcinoma, Metastatic, Prostate		
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum	1 (7%)	
Leukemia Mononuclear	1 (7%)	2 (20%)
Lipoma		
Mesothelioma Malignant	1 (7%)	
Sarcoma		
Oral Mucosa	(0)	(0)
Squamous Cell Carcinoma		
Squamous Cell Papilloma		
Pancreas	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum	1 (2%)	
Leukemia Mononuclear	5 (10%)	6 (12%)
Mesothelioma Malignant		
Acinar Cell, Adenoma	5 (10%)	7 (14%)
Acinar Cell, Adenoma, Multiple	1 (2%)	5 (10%)
Acinar Cell, Carcinoma		
Salivary Glands	(50)	(50)

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Adenocarcinoma		
Adenoma		
Leukemia Mononuclear	2 (4%)	1 (2%)
Sarcoma		
Schwannoma Malignant		
Stomach, Forestomach	(50)	(48)
Leukemia Mononuclear	1 (2%)	
Mesothelioma Malignant		
Squamous Cell Papilloma		
Stomach, Glandular	(50)	(48)
Adenocarcinoma		
Leukemia Mononuclear	1 (2%)	1 (2%)
Mesothelioma Malignant		
Tongue	(0)	(0)
Squamous Cell Carcinoma		
Squamous Cell Papilloma		

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)
Leukemia Mononuclear	2 (4%)	
Adventitia, Sarcoma		
Heart	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		
Carcinoma, Metastatic, Preputial Gland		
Hemangiosarcoma		
Leukemia Mononuclear	17 (34%)	13 (26%)
Schwannoma Benign		1 (2%)
Schwannoma Malignant		2 (4%)
Atrium, Mesothelioma Nos		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)
Adenoma		

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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: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Leukemia Mononuclear	7 (14%)	11 (22%)
Mesothelioma Malignant		
Adrenal Medulla	(50)	(50)
Leukemia Mononuclear	6 (12%)	8 (16%)
Pheochromocytoma Benign	6 (12%)	7 (14%)
Pheochromocytoma Benign, Multiple		
Pheochromocytoma Complex		
Pheochromocytoma Malignant	2 (4%)	1 (2%)
Bilateral, Pheochromocytoma Benign	5 (10%)	3 (6%)
Bilateral, Pheochromocytoma Malignant		
Islets, Pancreatic	(50)	(50)
Adenoma	5 (10%)	7 (14%)
Carcinoma		2 (4%)
Leukemia Mononuclear	1 (2%)	
Parathyroid Gland	(50)	(50)
Adenoma		
Pituitary Gland	(50)	(50)
Craniopharyngioma		
Leukemia Mononuclear	6 (12%)	6 (12%)
Pars Distalis, Adenoma	32 (64%)	36 (72%)
Pars Distalis, Carcinoma	1 (2%)	
Pars Intermedia, Adenoma		
Thyroid Gland	(50)	(50)
Leukemia Mononuclear		
C-cell, Adenoma	1 (2%)	8 (16%)
C-cell, Adenoma, Multiple		
C-cell, Carcinoma		1 (2%)
Follicular Cell, Adenoma		
Follicular Cell, Carcinoma	1 (2%)	1 (2%)

GENERAL BODY SYSTEM

Peritoneum	(1)	(1)
Tunica Vaginalis, Mesothelioma Malignant	1 (100%)	1 (100%)
Tissue NOS	(3)	(0)

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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
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First Dose M/F: 09/07/09 / NA
Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
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Carcinoma, Metastatic, Preputial Gland
Leukemia Mononuclear
Abdominal, Lipoma
Abdominal, Paraganglioma Malignant
Thoracic, Leukemia Mononuclear

1 (33%)

GENITAL SYSTEM

Ductus Deferens	(0)	(0)
Adenocarcinoma, Metastatic, Prostate		
Epididymis	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		
Leukemia Mononuclear		1 (2%)
Mesothelioma Malignant	2 (4%)	5 (10%)
Preputial Gland	(50)	(50)
Adenoma	3 (6%)	3 (6%)
Adenoma, Multiple		
Carcinoma	5 (10%)	3 (6%)
Leukemia Mononuclear	2 (4%)	6 (12%)
Sarcoma, Metastatic, Skin	1 (2%)	
Squamous Cell Carcinoma	2 (4%)	3 (6%)
Squamous Cell Papilloma		
Bilateral, Adenoma		
Prostate	(50)	(50)
Adenocarcinoma, Mucinous		
Adenoma	1 (2%)	
Adenoma, Multiple		
Leukemia Mononuclear	4 (8%)	2 (4%)
Mesothelioma Malignant		
Seminal Vesicle	(50)	(48)
Adenocarcinoma, Metastatic, Prostate		
Leukemia Mononuclear	3 (6%)	2 (4%)
Mesothelioma Malignant		
Testes	(50)	(50)
Leukemia Mononuclear		1 (2%)

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Mesothelioma Malignant	2 (4%)	4 (8%)
Bilateral, Interstitial Cell, Adenoma	9 (18%)	6 (12%)
Interstitial Cell, Adenoma	10 (20%)	16 (32%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(49)
Leukemia Mononuclear	17 (34%)	16 (33%)
Lymph Node	(26)	(33)
Axillary, Leukemia Mononuclear	2 (8%)	5 (15%)
Axillary, Lymphoma Malignant		
Cervical, Leukemia Mononuclear	2 (8%)	1 (3%)
Cervical, Lymphoma Malignant		
Deep Cervical, Leukemia Mononuclear		1 (3%)
Hepatic, Leukemia Mononuclear	1 (4%)	3 (9%)
Inguinal, Leukemia Mononuclear		
Lumbar, Leukemia Mononuclear	8 (31%)	10 (30%)
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland		
Mediastinal, Adenocarcinoma, Metastatic, Prostate		
Mediastinal, Fibrous Histiocytoma		
Mediastinal, Leukemia Mononuclear	7 (27%)	8 (24%)
Mediastinal, Lymphoma Malignant		
Pancreatic, Adenocarcinoma, Metastatic, Prostate		
Pancreatic, Leukemia Mononuclear	10 (38%)	13 (39%)
Pancreatic, Lymphoma Malignant		
Popliteal, Leukemia Mononuclear	1 (4%)	
Renal, Leukemia Mononuclear	8 (31%)	7 (21%)
Renal, Lymphoma Malignant		
Lymph Node, Mandibular	(50)	(50)
Fibrous Histiocytoma		
Leukemia Mononuclear	16 (32%)	14 (28%)
Lymphoma Malignant		
Lymph Node, Mesenteric	(50)	(50)

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

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

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Fibrous Histiocytoma		
Leukemia Mononuclear	18 (36%)	16 (32%)
Lymphoma Malignant		
Mesothelioma Malignant		
Spleen	(50)	(50)
Fibrous Histiocytoma		
Hemangiosarcoma		1 (2%)
Histiocytic Sarcoma		
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum	1 (2%)	
Leukemia Mononuclear	27 (54%)	27 (54%)
Lymphoma Malignant		
Mesothelioma Malignant	1 (2%)	
Thymus	(50)	(49)
Leukemia Mononuclear	7 (14%)	5 (10%)
Thymoma Benign		1 (2%)
Thymoma Malignant		
Adventitia, Sarcoma		

INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(50)
Adenocarcinoma		
Adenoma		1 (2%)
Fibroadenoma	1 (2%)	4 (8%)
Fibroadenoma, Multiple		
Leukemia Mononuclear	2 (4%)	1 (2%)
Skin	(50)	(50)
Basal Cell Adenoma	1 (2%)	
Basal Cell Carcinoma		
Keratoacanthoma		
Leukemia Mononuclear		
Lymphoma Malignant		
Squamous Cell Carcinoma		
Squamous Cell Papilloma		

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
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Trichoepithelioma		
Dermis, Fibroma	1 (2%)	
Dermis, Hemangioma		
Lip, Fibrous Histiocytoma		
Scrotum, Mesothelioma Malignant		
Sebaceous Gland, Adenoma		
Subcutaneous Tissue, Fibroma		
Subcutaneous Tissue, Fibrosarcoma	1 (2%)	
Subcutaneous Tissue, Fibrous Histiocytoma		
Subcutaneous Tissue, Lipoma	1 (2%)	1 (2%)
Subcutaneous Tissue, Liposarcoma		
Subcutaneous Tissue, Sarcoma	1 (2%)	1 (2%)
Subcutaneous Tissue, Schwannoma Malignant		

MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)
Mandible, Osteosarcoma		
Pelvis, Osteosarcoma		
Vertebra, Osteosarcoma		
Bone, Femur	(50)	(50)
Skeletal Muscle	(2)	(0)
Fibrous Histiocytoma		
Lipoma		
Mesothelioma Malignant	1 (50%)	
Osteosarcoma, Metastatic, Bone		
Rhabdomyosarcoma		
Diaphragm, Adenocarcinoma, Metastatic, Prostate		

NERVOUS SYSTEM

Brain	(1)	(0)
Meninges, Granular Cell Tumor Benign	1 (100%)	
Brain, Brain Stem	(50)	(50)

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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
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Astrocytoma Malignant		
Carcinoma, Metastatic, Pituitary Gland		
Leukemia Mononuclear	1 (2%)	
Brain, Cerebellum	(50)	(50)
Granular Cell Tumor Benign		
Leukemia Mononuclear	2 (4%)	1 (2%)
Brain, Cerebrum	(50)	(50)
Astrocytoma Malignant		
Carcinoma, Metastatic, Pituitary Gland		
Granular Cell Tumor Malignant		
Leukemia Mononuclear	2 (4%)	1 (2%)
Oligodendroglioma Malignant		
Peripheral Nerve	(0)	(0)
Spinal Cord, Cervical	(0)	(0)
Leukemia Mononuclear		
Spinal Cord, Lumbar	(0)	(0)
Leukemia Mononuclear		
Schwannoma Malignant		
Spinal Cord, Thoracic	(0)	(0)
Leukemia Mononuclear		

RESPIRATORY SYSTEM

Lung	(50)	(50)
Adenocarcinoma, Metastatic, Prostate		
Alveolar/Bronchiolar Adenoma		
Alveolar/Bronchiolar Carcinoma		1 (2%)
Carcinoma, Metastatic, Preputial Gland		
Fibrous Histiocytoma		
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)
Leukemia Mononuclear	20 (40%)	17 (34%)
Lymphoma Malignant		
Squamous Cell Carcinoma		
Nose	(50)	(48)
Fibrous Histiocytoma		

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE **0.92 Furan 104wk** **2 Furan 104 wk**

Squamous Cell Carcinoma, Deep Invasion
 Trachea

(50) (50)

SPECIAL SENSES SYSTEM

Ear
 Neural Crest Tumor
 Squamous Cell Papilloma
 Eye
 Leukemia Mononuclear
 Harderian Gland
 Leukemia Mononuclear
 Zymbal's Gland
 Adenoma
 Carcinoma
 Squamous Cell Carcinoma
 Squamous Cell Papilloma

(0) (0)

 (50) (47)
 (50) (50)
 2 (4%)
 (1) (1)
 1 (100%)

URINARY SYSTEM

Kidney
 Fibrous Histiocytoma
 Leukemia Mononuclear
 Liposarcoma
 Lymphoma Malignant
 Mesenchymal Tumor Malignant
 Transitional Epithelial Carcinoma
 Renal Tubule, Adenoma
 Renal Tubule, Carcinoma
 Urethra
 Urinary Bladder
 Leukemia Mononuclear
 Mesothelioma Malignant
 Transitional Epithelium, Papilloma

(50) (50)
 10 (20%) 11 (22%)

 (0) (0)
 (50) (50)
 3 (6%) 2 (4%)

 1 (2%)

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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Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE

0.92 Furan 104wk

2 Furan 104 wk

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)
Histiocytic Sarcoma		
Leukemia Mononuclear	27 (54%)	28 (56%)
Lymphoma Malignant		
Mesothelioma Malignant	2 (4%)	6 (12%)
Mesothelioma Nos		

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

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
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Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	149	149	97	96	48	49
Total Primary Neoplasms	460	450	298	337	166	161
 Total Animals with Benign Neoplasms	 142	 141	 93	 93	 46	 47
Total Benign Neoplasms	341	333	225	246	121	124
 Total Animals with Malignant Neoplasms	 92	 88	 57	 68	 36	 29
Total Malignant Neoplasms	118	117	71	91	44	36
 Total Animals with Metastatic Neoplasms	 2	 1	 1	 2	 1	 1
Total Metastatic Neoplasms	2	12	3	2	1	1
 Total Animals with Malignant Neoplasms Uncertain Primary Site						
 Total Animals with Neoplasms Uncertain- Benign or Malignant	 1		 2		 1	 1
Total Uncertain Neoplasms	1		2		1	1

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

b - Primary tumors: all tumors except metastatic tumors

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: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	47	49
Total Primary Neoplasms	128	162
Total Animals with Benign Neoplasms	44	46
Total Benign Neoplasms	84	110
Total Animals with Malignant Neoplasms	34	36
Total Malignant Neoplasms	44	52
Total Animals with Metastatic Neoplasms	2	1
Total Metastatic Neoplasms	6	1
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