

Version: Oct2007
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: METHYLCELLULOSE

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Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Southern Research Institute	059100507	06/26/00	730	50 (3)	30(693)	520.6	Methylene blue trihydrate
Female							
Southern Research Institute	059100507	06/26/00	733	50 (5)	35(699)	335.9	Methylene blue trihydrate

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

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	Male	Female
#All Organs: Benign Tumors	47/50 (94%)	47/50 (94%)
#All Organs: Malignant Tumors	30/50 (60%)	19/50 (38%)
#All Organs: Malignant and Benign Tumors	49/50 (98%)	50/50 (100%)
#All Organs: Hemangioma	1/50 (2%)	0/50 (0%)
#All Organs: Hemangiosarcoma	1/50 (2%)	1/50 (2%)
#All Organs: Hemangiosarcoma or Hemangioma	2/50 (4%)	1/50 (2%)
#All Organs: Histiocytic Sarcoma	0/50 (0%)	1/50 (2%)
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated	23/50 (46%)	12/50 (24%)

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#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type	0/50	(0%)	0/50	(0%)
.....				
#All Organs: Mesothelioma: Benign	0/50	(0%)	0/50	(0%)
.....				
#All Organs: Mesothelioma: Benign, Malignant, NOS	3/50	(6%)	0/50	(0%)
.....				
#All Organs: Mesothelioma: Malignant	3/50	(6%)	0/50	(0%)
.....				
#All Organs: Osteoma	0/50	(0%)	0/50	(0%)
.....				
#All Organs: Osteosarcoma	0/50	(0%)	1/50	(2%)
.....				
#All Organs: Osteosarcoma or Osteoma	0/50	(0%)	1/50	(2%)
.....				
*Adrenal Cortex: Adenoma	1/50	(2%)	1/50	(2%)
.....				

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*Adrenal Cortex: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
*Adrenal Medulla: Ganglioneuroma	0/50	(0%)	0/50	(0%)
.....				
*Adrenal Medulla: Hemangioma	0/50	(0%)	0/50	(0%)
.....				
*Adrenal Medulla: Pheochromocytoma Benign	9/50	(18%)	2/50	(4%)
.....				
*Adrenal Medulla: Pheochromocytoma Complex	1/50	(2%)	0/50	(0%)
.....				
*Adrenal Medulla: Pheochromocytoma Malignant	1/50	(2%)	0/50	(0%)
.....				
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS	11/50	(22%)	2/50	(4%)
.....				
#Blood Vessel: Osteosarcoma	0/50	(0%)	0/50	(0%)

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#Bone: Chondrosarcoma	0/50	(0%)	0/50	(0%)
#Bone: Chondrosarcoma or Chondroma	0/50	(0%)	0/50	(0%)
#Bone: Chordoma	0/50	(0%)	0/50	(0%)
#Bone: Osteoma	0/50	(0%)	0/50	(0%)
#Bone: Osteosarcoma	0/50	(0%)	1/50	(2%)
#Bone: Osteosarcoma or Osteoma	0/50	(0%)	1/50	(2%)
*Brain: Astrocytoma Malignant	0/50	(0%)	0/50	(0%)
*Brain: Ependymoma Benign	0/50	(0%)	0/50	(0%)

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*Brain: Glioma Malignant	0/50	(0%)	0/50	(0%)
*Brain: Granular Cell Tumor Benign	0/50	(0%)	0/50	(0%)
*Brain: Medulloblastoma Mal	0/50	(0%)	0/50	(0%)
*Brain: Meningioma Malignant	0/50	(0%)	0/50	(0%)
*Brain: Meningioma: Benign, Malignant, NOS	0/50	(0%)	0/50	(0%)
*Brain: Oligodendroglioma Benign	0/50	(0%)	0/50	(0%)
*Brain: Oligodendroglioma Malignant	0/50	(0%)	0/50	(0%)
*Brain: Oligodendroglioma, Glioma, or Astrocytoma	0/50	(0%)	0/50	(0%)

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*Clitoral/Preputial Gland: Adenoma	1/50	(2%)	7/50	(14%)
*Clitoral/Preputial Gland: Carcinoma	0/50	(0%)	1/50	(2%)
*Clitoral/Preputial Gland: Carcinoma or Adenoma	1/50	(2%)	8/50	(16%)
*Clitoral/Preputial Gland: Fibrosarcoma	0/50	(0%)	0/50	(0%)
*Clitoral/Preputial Gland: Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
#Ear: Neural Crest Tumor	0/50	(0%)	0/50	(0%)
#Esophagus: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Eye: Amelanotic Melanoma, Benign	0/50	(0%)	0/50	(0%)

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#Eye: Melanoma Benign	0/50	(0%)	0/50	(0%)
#Eye: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Harderian Gland: Adenoma	0/50	(0%)	0/50	(0%)
#Harderian Gland: Carcinoma	0/50	(0%)	0/50	(0%)
#Harderian Gland: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
*Heart: Schwannoma Benign	0/50	(0%)	0/50	(0%)
*Heart: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Intestine Large: Colon/Rectum: Adenoma	0/50	(0%)	0/50	(0%)

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#Intestine Large: Colon/Rectum: Carcinoma	0/50	(0%)	0/50	(0%)
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
#Intestine Large: Colon/Rectum: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Duodenum: Carcinoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Duodenum: Leiomyoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Jejunum: Leiomyoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Jejunum: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Site Unspecified: Carcinoma	0/50	(0%)	0/50	(0%)

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#Intestine Small: Site Unspecified: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Site Unspecified: Leiomyoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Site Unspecified: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
*Islets, Pancreatic: Adenoma	4/50	(8%)	2/49	(4%)
.....				
*Islets, Pancreatic: Carcinoma	0/50	(0%)	0/49	(0%)
.....				
*Islets, Pancreatic: Carcinoma or Adenoma	4/50	(8%)	2/49	(4%)
.....				
*Kidney: Pelvis and Transitional Epithelium: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)

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*Kidney: Pelvis and Transitional Epithelium: Papilloma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Adenoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Carcinoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Lipoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Liposarcoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Mesenchymal Tumor Benign	0/50	(0%)	0/50	(0%)

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*Kidney: Renal Tubule: Nephroblastoma	0/50	(0%)	0/50	(0%)
.....				
*Kidney: Renal Tubule: Sarcoma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Cholangiocarcinoma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Cholangioma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Hemangiosarcoma	1/50	(2%)	0/50	(0%)
.....				
*Liver: Hepatocellular Adenoma	1/50	(2%)	0/50	(0%)
.....				
*Liver: Hepatocellular Carcinoma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Hepatocellular Carcinoma or Hepatoblastoma	0/50	(0%)	0/50	(0%)

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*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma	1/50	(2%)	0/50	(0%)
*Liver: Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma	1/50	(2%)	0/50	(0%)
*Lung: Alveolar/Bronchiolar Adenoma	1/50	(2%)	0/50	(0%)
*Lung: Alveolar/Bronchiolar Carcinoma	0/50	(0%)	0/50	(0%)
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma	1/50	(2%)	0/50	(0%)
*Lung: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
*Lung: Sarcoma	0/50	(0%)	0/50	(0%)
*Lung: Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)

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#Lymph Node, Mesenteric: Sarcoma	0/50	(0%)	0/50	(0%)
.....				
#Mammary Gland: Adenoma	0/50	(0%)	1/50	(2%)
.....				
#Mammary Gland: Carcinoma	0/50	(0%)	1/50	(2%)
.....				
#Mammary Gland: Carcinoma or Adenoma	0/50	(0%)	2/50	(4%)
.....				
#Mammary Gland: Fibroadenoma	2/50	(4%)	28/50	(56%)
.....				
#Mammary Gland: Fibroma	0/50	(0%)	0/50	(0%)
.....				
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma	2/50	(4%)	29/50	(58%)
.....				
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma	2/50	(4%)	30/50	(60%)

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#Mesentery: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Hemangiosarcoma	1/50	(2%)	0/50	(0%)
#Mesentery: Osteosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Rhabdomyosarcoma	0/50	(0%)	0/50	(0%)
*Nose: Adenoma	0/50	(0%)	0/50	(0%)
*Nose: Chondroma	0/50	(0%)	0/50	(0%)
*Nose: Sarcoma	0/50	(0%)	0/50	(0%)
*Nose: Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)

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#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Papilloma Squamous or Papilloma	0/50	(0%)	0/50	(0%)
.....				
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma	1/50	(2%)	1/50	(2%)
.....				
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma	1/50	(2%)	1/50	(2%)
.....				
#Oral Mucosa: Squamous Cell Carcinoma	1/50	(2%)	1/50	(2%)
.....				
#Oral Mucosa: Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
.....				
*Ovary: Granulosa Cell Tumor Benign			0/50	(0%)
.....				
*Ovary: Granulosa Cell Tumor Malignant			0/50	(0%)
.....				
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS			0/50	(0%)
.....				

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*Ovary:				
Granulosa-Theca Tumor Benign			0/50	(0%)
.....				
*Pancreas:				
Adenoma	0/50	(0%)	1/49	(2%)
.....				
*Pancreas:				
Carcinoma	0/50	(0%)	0/49	(0%)
.....				
*Pancreas:				
Carcinoma or Adenoma	0/50	(0%)	1/49	(2%)
.....				
*Pancreas:				
Mixed Tumor Benign	1/50	(2%)	0/49	(0%)
.....				
*Parathyroid Gland:				
Adenoma	0/50	(0%)	0/47	(0%)
.....				
#Peripheral Nerve:				
Schwannoma Malignant	1/50	(2%)	0/50	(0%)
.....				
#Peripheral Nerve:				
Schwannoma: Benign, Malignant, NOS	1/50	(2%)	0/50	(0%)

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*Pituitary Gland: Pars Distalis or Unspecified Site:		
Adenoma	25/50 (50%)	36/50 (72%)
.....		
*Pituitary Gland: Pars Distalis or Unspecified Site:		
Carcinoma	0/50 (0%)	0/50 (0%)
.....		
*Pituitary Gland: Pars Distalis or Unspecified Site:		
Carcinoma or Adenoma	25/50 (50%)	36/50 (72%)
.....		
*Pituitary Gland: Pars Intermedia:		
Adenoma	0/50 (0%)	0/50 (0%)
.....		
*Pituitary Gland: Pars Intermedia:		
Carcinoma	0/50 (0%)	0/50 (0%)
.....		
*Pituitary Gland: Pars Intermedia:		
Carcinoma or Adenoma	0/50 (0%)	0/50 (0%)
.....		
*Prostate:		
Adenoma	1/50 (2%)	
.....		
*Prostate:		
Carcinoma or Adenoma	1/50 (2%)	

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*Salivary Glands: Sarcoma	0/50	(0%)	0/50	(0%)
*Salivary Glands: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Skeletal Muscle: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Skeletal Muscle: Hemangioma	1/50	(2%)	0/50	(0%)
#Skeletal Muscle: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Skeletal Muscle: Lipoma	0/50	(0%)	0/50	(0%)
#Skeletal Muscle: Rhabdomyosarcoma	0/50	(0%)	0/50	(0%)
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma	0/50	(0%)	0/50	(0%)

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#Skeletal Muscle:				
Sarcoma	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma or Basosquamous Tumor Benign	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma	0/50	(0%)	2/50	(4%)
.....				
#Skin:				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma	7/50	(14%)	3/50	(6%)

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#Skin: Fibroma	6/50	(12%)	1/50	(2%)
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma	8/50	(16%)	2/50	(4%)
#Skin: Fibrosarcoma	3/50	(6%)	1/50	(2%)
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma	3/50	(6%)	1/50	(2%)
#Skin: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
#Skin: Hemangioma	0/50	(0%)	0/50	(0%)
#Skin: Hemangiosarcoma	0/50	(0%)	1/50	(2%)
#Skin: Keratoacanthoma	3/50	(6%)	0/50	(0%)

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	Male		Female	
#Skin: Lipoma	0/50	(0%)	0/50	(0%)
#Skin: Liposarcoma	0/50	(0%)	0/50	(0%)
#Skin: Neural Crest Tumor	1/50	(2%)	0/50	(0%)
#Skin: Neurofibroma or Schwannoma benign	0/50	(0%)	0/50	(0%)
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)	0/50	(0%)	0/50	(0%)
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)	0/50	(0%)	0/50	(0%)
#Skin: Osteosarcoma	0/50	(0%)	0/50	(0%)
#Skin: Sarcoma	0/50	(0%)	0/50	(0%)

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

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	Male		Female	
#Skin: Schwannoma Benign	0/50	(0%)	0/50	(0%)
#Skin: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Skin: Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
#Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma	0/50	(0%)	1/50	(2%)
#Skin: Squamous Cell Papilloma	4/50	(8%)	1/50	(2%)
#Skin: Squamous Cell Papilloma or Papilloma	4/50	(8%)	1/50	(2%)
#Skin: Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma	7/50	(14%)	1/50	(2%)
#Skin: Squamous Cell Papilloma, Papilloma, or Keratoacanthoma	7/50	(14%)	1/50	(2%)

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	Male		Female	
#Skin:				
Trichoepithelioma	0/50	(0%)	1/50	(2%)
.....				
#Skin: Sebaceous Gland:				
Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Skin: Sebaceous Gland:				
Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Skin: Sebaceous Gland:				
Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Spinal Cord:				
Astrocytoma Benign	0/50	(0%)	0/50	(0%)
.....				
*Spleen:				
Fibrosarcoma	0/50	(0%)	0/49	(0%)
.....				
*Spleen:				
Hemangioma	0/50	(0%)	0/49	(0%)
.....				
*Spleen:				
Hemangiosarcoma	1/50	(2%)	0/49	(0%)

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	Male		Female	
*Spleen:				
Leiomyosarcoma	0/50	(0%)	0/49	(0%)
.....				
#Stomach, Forestomach:				
Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Forestomach:				
Schwannoma Malignant	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Forestomach:				
Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Forestomach:				
Squamous Cell Carcinoma or Papilloma Squamous	0/50	(0%)	1/50	(2%)
.....				
#Stomach, Forestomach:				
Squamous Cell Papilloma	0/50	(0%)	1/50	(2%)
.....				
#Stomach, Glandular:				
Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Glandular:				
Lipoma	0/50	(0%)	0/50	(0%)

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	Male		Female	
*Testes:				
Adenoma	41/50	(82%)		
.....				
*Thymus:				
Sarcoma	0/49	(0%)	0/50	(0%)
.....				
*Thymus:				
Thymoma Benign	0/49	(0%)	1/50	(2%)
.....				
*Thymus:				
Thymoma Malignant	0/49	(0%)	0/50	(0%)
.....				
*Thymus:				
Thymoma: Benign, Malignant, NOS	0/49	(0%)	1/50	(2%)
.....				
*Thyroid Gland: C-Cell:				
Adenoma	6/50	(12%)	7/50	(14%)
.....				
*Thyroid Gland: C-Cell:				
Carcinoma	2/50	(4%)	0/50	(0%)
.....				
*Thyroid Gland: C-Cell:				
Carcinoma or Adenoma	8/50	(16%)	7/50	(14%)

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*Thyroid Gland: Follicular Cell: Adenoma	0/50	(0%)	0/50	(0%)
*Thyroid Gland: Follicular Cell: Carcinoma	0/50	(0%)	0/50	(0%)
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Leiomyoma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Lipoma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Paranglioma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Sarcoma	0/50	(0%)	0/50	(0%)

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	Male		Female	
#Tissue NOS:				
Schwannoma Malignant	0/50	(0%)	0/50	(0%)
.....				
#Tongue:				
Liposarcoma	0/50	(0%)	0/50	(0%)
.....				
#Tongue:				
Squamous Cell Carcinoma or Papilloma Squamous	0/50	(0%)	0/50	(0%)
.....				
#Tongue:				
Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
.....				
#Tooth:				
Odontoma	0/50	(0%)	0/50	(0%)
.....				
*Urinary Bladder:				
Carcinoma	0/50	(0%)	0/50	(0%)
.....				
*Urinary Bladder:				
Carcinoma or Papilloma	0/50	(0%)	0/50	(0%)
.....				
*Urinary Bladder:				
Leiomyosarcoma	0/50	(0%)	0/50	(0%)

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 #: Denominator is number of animals necropsied

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	Male	Female
*Urinary Bladder: Papilloma	0/50 (0%)	0/50 (0%)
#Uterus: Adenoma		0/50 (0%)
#Uterus: Carcinoma		0/50 (0%)
#Uterus: Deciduoma Benign		0/50 (0%)
#Uterus: Hemangioma		0/50 (0%)
#Uterus: Hemangiosarcoma		0/50 (0%)
#Uterus: Leiomyoma		0/50 (0%)
#Uterus: Polyp Stromal		13/50 (26%)

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#: Denominator is number of animals necropsied

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	Male	Female
#Uterus: Sarcoma Stromal		2/50 (4%)
.....		
#Uterus: Sarcoma Stromal or Polyp Stromal		15/50 (30%)
.....		
#Uterus: Schwannoma Malignant		0/50 (0%)
.....		
#Vagina: Polyp		0/50 (0%)
.....		
#Vagina: Sarcoma		0/50 (0%)
.....		
#Zymbal's Gland: Adenoma	0/50 (0%)	0/50 (0%)
.....		
#Zymbal's Gland: Carcinoma	0/50 (0%)	0/50 (0%)
.....		
#Zymbal's Gland: Carcinoma or Adenoma	0/50 (0%)	0/50 (0%)

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied