

MPI Research Study Number 2265-001
A 104-Week Historical Control Oncogenicity Study with Interim Necropsies in Han Wistar Rats

Summary of Neoplastic Lesions and Table of Tumor Bearing Animals - MALE

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
adipose tissue	(1)		
adrenal glands	(150)		
ganglioneuroma, benign, primary	1	1130	S 729
pheochromocytoma, benign, primary	3	1086 1103 1125	S 729 S 729 E 711
pheochromocytoma, malignant, primary	3	1097 1123 1147	S 729 S 729 S 729
aorta	(150)		
bile duct, extrahepatic	(5)		
bone marrow, femur	(150)		
bone marrow, sternum	(150)		

S - Scheduled necropsy
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Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
bone, femur	(150)		
osteosarcoma, malignant, primary	1	1131	S 729
bone, sternum	(150)		
brain	(150)		
granular cell tumor, benign, primary	4	1095 1113 1121 1138	S 729 S 729 S 729 S 729
cavity, oral	(5)		
hair follicle tumor, benign, primary	1	1085	S 729
coagulating glands	(150)		
epididymides	(150)		

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
esophagus	(150)		
eyes	(150)		
eyes, optic nerves	(150)		
galt	(150)		
harderian glands	(150)		
heart	(150)		
pheochromocytoma, malignant, secondary	1	1147	S 729
schwannoma, endocardial, malignant, primary	1	1115	S 729
joint, tibiofemoral	(150)		
kidneys	(150)		

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Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
lacrimal glands, exorbital	(150)		
large intestine, cecum	(150)		
large intestine, colon	(150)		
large intestine, rectum	(150)		
larynx	(150)		
liver	(150)		
lung	(150)		
osteosarcoma, malignant, secondary	1	1131	S 729
lymph node, axillary	(3)		
lymph node, iliac	(1)		
osteosarcoma, malignant, secondary	1	1131	S 729

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Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
lymph node, inguinal	(2)		
lymph node, mandibular	(150)		
lymph node, mediastinal	(2)		
lymph node, mesenteric	(150)		
lymph node, renal	(1)		
mammary gland	(2)		
adenoma, benign, primary	1	1101	S 729
mesentery/peritoneum	(7)		
mesothelioma, benign, primary	1	1081	S 729
multicentric neoplasm	(8)		
hemangioma, benign, multicentric	1	1144	S 729
hemangiosarcoma, malignant, multicentric	1	1105	D 611

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
multicentric neoplasm	(8)		
lymphoma, malignant, multicentric	6	1093	E 725
		1099	S 729
		1115	S 729
		1129	E 520
		1138	S 729
		1150	D 427
nerve, sciatic	(150)		
nose, level a	(150)		
nose, level b	(150)		
nose, level c	(150)		
adenoma, benign, primary	1	1143	S 729
nose, level d	(150)		
pancreas	(150)		
adenoma, islet cell, benign, primary	4	1112	D 720
		1116	S 729

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
pancreas	(150)		
adenoma, islet cell, benign, primary	4	1125 1134	E 711 S 729
parathyroid glands	(133)		
adenoma, benign, primary	3	1101 1122 1131	S 729 S 729 S 729
pharynx	(150)		
pituitary gland	(150)		
adenoma, pars distalis, benign, primary	29	1082 1085 1086 1094 1095 1096 1098 1102 1103	E 588 S 729 S 729 S 729 S 729 S 729 S 729 E 649 S 729

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Summary of Neoplastic Lesions and Table of Tumor Bearing Animals - MALE

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
pituitary gland	(150)		
adenoma, pars distalis, benign, primary	29	1106	D 718
		1108	S 729
		1110	S 729
		1113	S 729
		1114	E 323
		1116	S 729
		1119	S 729
		1123	S 729
		1131	S 729
		1133	D 665
		1134	S 729
		1136	S 729
		1137	E 630
		1138	S 729
		1143	S 729
		1144	S 729
		1145	E 518
		1147	S 729
		1148	S 729
		1149	S 729

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
pituitary gland	(150)		
adenoma, pars intermedia, benign, primary	1	1115	S 729
preputial glands	(150)		
carcinoma, squamous cell, malignant, primary	1	1104	S 729
prostate gland	(150)		
adenoma, benign, primary	1	1087	S 729
salivary gland, mandibular	(150)		
salivary gland, parotid	(150)		
salivary gland, sublingual	(149)		
seminal vesicles	(150)		

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Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
skeletal muscle, biceps femoris	(150)		
skin	(150)		
keratoacanthoma, benign, primary	1	1081	S 729
papilloma, squamous cell, benign, primary	1	1124	S 729
skin, subcutis	(4)		
fibroma, benign, primary	1	1140	E 606
lipoma, benign, primary	1	1135	S 729
small intestine, duodenum	(150)		
small intestine, ileum	(150)		
small intestine, jejunum	(150)		
spinal cord, cervical	(150)		

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Summary of Neoplastic Lesions and Table of Tumor Bearing Animals - MALE

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
spinal cord, lumbar	(150)		
meningioma, benign, primary	1	1090	E 130
spinal cord, thoracic	(150)		
spleen	(150)		
leiomyoma, benign, primary	1	1149	S 729
stomach, glandular	(150)		
stomach, nonglandular	(150)		
testes	(150)		
adenoma, interstitial cell, benign, primary	5	1097 1099 1107 1136 1150	S 729 S 729 S 729 S 729 D 427

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Summary of Neoplastic Lesions and Table of Tumor Bearing Animals - MALE

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
thymus	(149)		
thyroid gland	(149)		
adenoma, c-cell, benign, primary	8	1084 1087 1088 1096 1097 1098 1099 1126	E 727 S 729 D 624 S 729 S 729 S 729 S 729 S 729
adenoma, follicular cell, benign, primary	5	1082 1098 1113 1115 1136	E 588 S 729 S 729 S 729 S 729
carcinoma, c-cell, malignant, primary	2	1081 1149	S 729 S 729

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Summary of Neoplastic Lesions and Table of Tumor Bearing Animals - MALE

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
thyroid gland	(149)		
carcinoma, follicular cell, malignant, primary	1	1086	S 729
tongue	(150)		
trachea	(150)		
ureters	(145)		
urinary bladder	(150)		
zymbal's gland	(146)		

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Table 6
Statistical Analysis of Neoplastic Lesions

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Statistical Analysis of Neoplastic Lesions - MALE

Tissue [@] Diagnosis	Group 1	
adrenal glands		
ganglioneuroma, benign		
Overall Rates (a)	1/150	(0.67%)
pheochromocytoma, benign		
Overall Rates (a)	3/150	(2.00%)
pheochromocytoma, malignant		
Overall Rates (a)	3/150	(2.00%)
bone, femur		
osteosarcoma, malignant		
Overall Rates (a)	1/150	(0.67%)
brain		
granular cell tumor, benign		
Overall Rates (a)	4/150	(2.67%)
heart		
schwannoma, endocardial, malignant		
Overall Rates (a)	1/150	(0.67%)

[@] Only includes tissues where at least 1 tumor was found in any group
(a) - Number of tumor-bearing animals/number of animals examined at site

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Statistical Analysis of Neoplastic Lesions - MALE

Tissue [@] Diagnosis	Group 1	
multicentric neoplasm		
hemangioma, benign		
Overall Rates (a)	1/150	(0.67%)
hemangiosarcoma, malignant		
Overall Rates (a)	1/150	(0.67%)
lymphoma, malignant		
Overall Rates (a)	6/150	(4.00%)
nose, level c		
adenoma, benign		
Overall Rates (a)	1/150	(0.67%)
pancreas		
adenoma, islet cell, benign		
Overall Rates (a)	4/150	(2.67%)
parathyroid glands		
adenoma, benign		
Overall Rates (a)	3/133	(2.26%)
pituitary gland		
adenoma, pars distalis, benign		
Overall Rates (a)	29/150	(19.33%)

[@] Only includes tissues where at least 1 tumor was found in any group
(a) - Number of tumor-bearing animals/number of animals examined at site

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Statistical Analysis of Neoplastic Lesions - MALE

Tissue [@] Diagnosis	Group 1	
pituitary gland		
adenoma, pars intermedia, benign		
Overall Rates (a)	1/150	(0.67%)
preputial glands		
carcinoma, squamous cell, malignant		
Overall Rates (a)	1/150	(0.67%)
prostate gland		
adenoma, benign		
Overall Rates (a)	1/150	(0.67%)
skin / skin, subcutis		
fibroma, benign		
Overall Rates (a)	1/150	(0.67%)
keratoacanthoma, benign		
Overall Rates (a)	1/150	(0.67%)
lipoma, benign		
Overall Rates (a)	1/150	(0.67%)
papilloma, squamous cell, benign		
Overall Rates (a)	1/150	(0.67%)

[@] Only includes tissues where at least 1 tumor was found in any group
(a) - Number of tumor-bearing animals/number of animals examined at site

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Statistical Analysis of Neoplastic Lesions - MALE

Tissue [@] Diagnosis	Group 1	
spinal cord, lumbar		
meningioma, benign		
Overall Rates (a)	1/150	(0.67%)
spleen		
leiomyoma, benign		
Overall Rates (a)	1/150	(0.67%)
testes		
adenoma, interstitial cell, benign		
Overall Rates (a)	5/150	(3.33%)
thyroid gland		
adenoma, c-cell, benign		
Overall Rates (a)	8/149	(5.37%)
adenoma, follicular cell, benign		
Overall Rates (a)	5/149	(3.36%)
carcinoma, c-cell, malignant		
Overall Rates (a)	2/149	(1.34%)
carcinoma, follicular cell, malignant		
Overall Rates (a)	1/149	(0.67%)

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(a) - Number of tumor-bearing animals/number of animals examined at site