

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 - FEMALE

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
adrenal glands	(150)		
adenoma, cortical, benign, primary	1	1616	S 730
pheochromocytoma, benign, primary	3	1588 1625 1627	E 659 S 730 E 664
aorta	(150)		
bile duct, extrahepatic	(2)		
bone marrow, femur	(150)		
bone marrow, sternum	(150)		
bone, femur	(150)		
bone, sternum	(150)		
brain	(150)		
carcinoma, pars distalis, malignant, secondary	1	1614	S 730

S - Scheduled necropsy
E - Euthanized *in extremis*
() - Total number examined
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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
brain	(150)		
granular cell tumor, benign, primary	1	1589	S 730
granular cell tumor, malignant, primary	1	1627	E 664
cavity, oral	(3)		
keratoacanthoma, benign, primary	1	1583	S 730
clitoral glands	(148)		
carcinoma, squamous cell, malignant, primary	1	1610	E 681
esophagus	(150)		
eyes	(150)		
eyes, optic nerves	(150)		

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
galt	(150)		
harderian glands	(150)		
heart	(150)		
joint, tibiofemoral	(150)		
kidneys	(150)		
lacrimal glands, exorbital	(150)		
large intestine, cecum leiomyosarcoma, malignant, primary	(150) 1	1590	S 730
large intestine, colon	(150)		
large intestine, rectum	(150)		
larynx	(150)		

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
liver	(150)		
adenoma, hepatocellular, benign, primary	1	1593	S 730
cholangioma, benign, primary	1	1588	E 659
lung	(150)		
lymph node, axillary	(10)		
lymph node, hepatic	(1)		
lymph node, iliac	(2)		
lymph node, inguinal	(2)		
lymph node, mandibular	(150)		
lymph node, mediastinal	(1)		
lymph node, mesenteric	(150)		

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
mammary gland	(150)		
adenocarcinoma, malignant, primary	8	1581	S 730
		1597	S 730
		1613	S 730
		1614	S 730
		1616	S 730
		1625	S 730
		1632	S 730
		1650	E 711
adenoma, benign, primary	4	1614	S 730
		1621	S 730
		1625	S 730
		1639	S 730
fibroadenoma, benign, primary	15	1588	E 659
		1590	S 730
		1591	E 667
		1607	S 730
		1609	E 396
		1611	S 730
		1612	S 730
		1616	S 730
		1620	S 730
		1626	S 730

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Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
mammary gland	(150)		
fibroadenoma, benign, primary	15	1634	S 730
		1639	S 730
		1640	S 730
		1642	S 730
		1650	E 711
mesentery/peritoneum	(7)		
lipoma, benign, primary	2	1597	S 730
		1641	E 492
multicentric neoplasm	(6)		
hemangiosarcoma, malignant, multicentric	2	1604	S 730
		1650	E 711
lymphoma, malignant, multicentric	4	1618	D 702
		1630	E 399
		1638	E 369
		1644	S 730

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No. - Number

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
nerve, sciatic	(150)		
nose, level a	(150)		
nose, level b	(150)		
nose, level c	(150)		
nose, level d	(150)		
ovaries	(150)		
lipoma, benign, primary	1	1635	S 730
sex-cord/stromal tumor, malignant, primary	4	1581 1587 1602 1604	S 730 S 730 S 730 S 730
oviducts	(150)		
sex-cord/stromal tumor, malignant, secondary	1	1581	S 730

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
pancreas	(150)		
adenoma, islet cell, benign, primary	1	1612	S 730
parathyroid glands	(125)		
pharynx	(150)		
pituitary gland	(150)		
adenoma, pars distalis, benign, primary	43	1581	S 730
		1582	S 730
		1584	D 680
		1585	S 730
		1587	S 730
		1588	E 659
		1589	S 730
		1590	S 730
		1591	E 667
		1592	S 730
		1593	S 730
		1594	S 730
		1595	E 468
		1596	E 545

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
pituitary gland	(150)		
adenoma, pars distalis, benign, primary	43	1597	S 730
		1599	E 443
		1600	S 730
		1603	S 730
		1605	E 623
		1606	S 730
		1608	S 730
		1611	S 730
		1612	S 730
		1613	S 730
		1616	S 730
		1617	S 730
		1619	S 730
		1620	S 730
		1621	S 730
		1622	S 730
		1624	S 730
		1626	S 730
		1628	E 681
		1629	S 730
		1631	S 730
		1633	E 571
		1637	S 730

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
pituitary gland	(150)		
adenoma, pars distalis, benign, primary	43	1639 1642 1645 1648 1649 1650	S 730 S 730 S 730 S 730 E 619 E 711
carcinoma, pars distalis, malignant, primary	1	1614	S 730
salivary gland, mandibular	(150)		
salivary gland, parotid	(150)		
salivary gland, sublingual	(150)		
skeletal muscle, biceps femoris	(150)		
skin	(150)		

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
skin, subcutis	(3)		
lipoma, benign, primary	1	1631	S 730
schwannoma, malignant, primary	1	1641	E 492
small intestine, duodenum	(150)		
small intestine, ileum	(150)		
small intestine, jejunum	(150)		
spinal cord, cervical	(150)		
spinal cord, lumbar	(150)		
spinal cord, thoracic	(150)		
spleen	(150)		
stomach, glandular	(150)		

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
stomach, nonglandular	(150)		
carcinoma, squamous cell, malignant, primary	1	1611	S 730
thymus	(150)		
thymoma, benign, primary	6	1614	S 730
		1624	S 730
		1627	E 664
		1629	S 730
		1640	S 730
		1648	S 730
thyroid gland	(150)		
adenoma, c-cell, benign, primary	9	1583	S 730
		1585	S 730
		1586	S 730
		1593	S 730
		1612	S 730
		1619	S 730
		1634	S 730
		1636	S 730
		1645	S 730

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
thyroid gland	(150)		
adenoma, follicular cell, benign, primary	4	1589 1597 1602 1620	S 730 S 730 S 730 S 730
tongue	(150)		
tooth/teeth	(2)		
trachea	(150)		
ureters	(149)		
urinary bladder	(150)		
uterus with cervix	(150)		
adenocarcinoma, malignant, primary	1	1615	S 730
polyp, stromal, benign, primary	8	1596 1608 1613 1617	E 545 S 730 S 730 S 730

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

Group 1			
Tissue Diagnosis	No. with Tumor	Animal No.	Fate/ Day
uterus with cervix	(150)		
polyp, stromal, benign, primary	8	1619	S 730
		1625	S 730
		1627	E 664
		1642	S 730
vagina	(150)		
zymbal's gland	(148)		

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Table 6
Statistical Analysis of Neoplastic Lesions

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Statistical Analysis of Neoplastic Lesions - FEMALE

Tissue® Diagnosis	Group 1	
adrenal glands		
adenoma, cortical, benign Overall Rates (a)	1/150	(0.67%)
pheochromocytoma, benign Overall Rates (a)	3/150	(2.00%)
brain		
granular cell tumor, benign Overall Rates (a)	1/150	(0.67%)
granular cell tumor, malignant Overall Rates (a)	1/150	(0.67%)
clitoral glands		
carcinoma, squamous cell, malignant Overall Rates (a)	1/148	(0.68%)
large intestine, cecum		
leiomyosarcoma, malignant Overall Rates (a)	1/150	(0.67%)

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Statistical Analysis of Neoplastic Lesions - FEMALE

Tissue® Diagnosis	Group 1	
liver		
adenoma, hepatocellular, benign Overall Rates (a)	1/150	(0.67%)
cholangioma, benign Overall Rates (a)	1/150	(0.67%)
mammary gland		
adenocarcinoma, malignant Overall Rates (a)	8/150	(5.33%)
adenoma, benign Overall Rates (a)	4/150	(2.67%)
fibroadenoma, benign Overall Rates (a)	15/150	(10.00%)
multicentric neoplasm		
hemangiosarcoma, malignant Overall Rates (a)	2/150	(1.33%)
lymphoma, malignant Overall Rates (a)	4/150	(2.67%)

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Statistical Analysis of Neoplastic Lesions - FEMALE

Tissue® Diagnosis	Group 1	
ovaries		
lipoma, benign		
Overall Rates (a)	1/150	(0.67%)
sex-cord/stromal tumor, malignant		
Overall Rates (a)	4/150	(2.67%)
pancreas		
adenoma, islet cell, benign		
Overall Rates (a)	1/150	(0.67%)
pituitary gland		
adenoma, pars distalis, benign		
Overall Rates (a)	43/150	(28.67%)
carcinoma, pars distalis, malignant		
Overall Rates (a)	1/150	(0.67%)
skin / skin, subcutis		
lipoma, benign		
Overall Rates (a)	1/150	(0.67%)
schwannoma, malignant		
Overall Rates (a)	1/150	(0.67%)

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Statistical Analysis of Neoplastic Lesions - FEMALE

Tissue® Diagnosis	Group 1	
stomach, nonglandular		
carcinoma, squamous cell, malignant		
Overall Rates (a)	1/150	(0.67%)
thymus		
thymoma, benign		
Overall Rates (a)	6/150	(4.00%)
thyroid gland		
adenoma, c-cell, benign		
Overall Rates (a)	9/150	(6.00%)
adenoma, follicular cell, benign		
Overall Rates (a)	4/150	(2.67%)
uterus with cervix		
adenocarcinoma, malignant		
Overall Rates (a)	1/150	(0.67%)
polyp, stromal benign		
Overall Rates, (a)	8/150	5.33%)