

Test for Pairwise Comparison of Control 2 with Maximum Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	2	MX	0.2248	0.0682
BRAIN	0100	GRANULAR CELL TUMOR (MALI)	010008	2%	1	0	IN	1.0000	0.8194
NASAL CAVITY, POST	0602	ADENOMA	060212	2%	1	0	IN	1.0000	0.8265
NASAL CAVITY, MIDD	0604	ADENOMA	060411	2%	1	0	IN	1.0000	0.8265
DUODENUM	1601	CARCINOMA	160102	2%	1	0	IN	1.0000	0.8265
ILEUM	1603	FIBROSARCOMA	160301	0%	0	1	IN	0.4691	0.1438
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	3	IN	0.0989	0.0310
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	0%	0	1	FA	0.4898	0.1538
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	3	IN	0.4641	0.2930
PANCREAS	2000	ISLET CELL CARCINOMA	200003	2%	1	0	IN	1.0000	0.8265
PANCREAS	2000	MIXED ISLET-ACINAR ADENOM	200013	4%	2	0	IN	1.0000	0.9150
KIDNEYS	2100	TUBULAR ADENOMA	210007	0%	0	1	IN	0.7500	0.2820
KIDNEYS	2100	LIPOSARCOMA	210012	2%	1	2	MX	0.4948	0.2771
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	4	IN	0.2079	0.0998
PROSTATE	2700	ADENOMA	270005	2%	1	4	IN	0.1435	0.0641
PITUITARY ANTERIOR	4101	ADENOMA	410102	26%	13	16	MX	0.2268	0.1703
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	10%	5	16	IN	0.0051	0.0027
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	4%	2	2	IN	0.6440	0.4499
THYROID GLAND	4200	C-CELL ADENOMA	420007	18%	9	6	IN	0.8538	0.7790
THYROID GLAND	4200	C-CELL CARCINOMA	420008	2%	1	2	IN	0.4532	0.2438
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	2	IN	0.4431	0.2363
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	1	IN	0.8498	0.6753
ADRENAL CORTEX	4401	HEMANGIOSARCOMA	440116	2%	1	0	FA	1.0000	0.8281
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	4%	2	2	IN	0.6465	0.4548
SYSTEMIC NEOPLASMS	4500	LYMPHOID LEUKEMIA	450002	0%	0	1	FA	0.5000	0.1587
SPLEEN	4600	HEMANGIOSARCOMA	460010	0%	0	1	IN	0.4691	0.1438
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	0	IN	1.0000	0.8265
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	1	FA	0.4719	0.1451
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	0%	0	1	IN	0.4691	0.1438
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	4%	2	1	IN	0.8554	0.6835
MANDIBUL. LYMPH NO	5108	HEMANGIOSARCOMA	510806	0%	0	1	IN	N/A	N/A
HARDERIAN GLANDS	5400	ADENOMA	540005	2%	1	1	IN	0.7213	0.4650
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	3	IN	0.1112	0.0360
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	1	0	IN	1.0000	0.8293
SKIN/SUBCUTIS	5700	SEBACEOUS ADENOMA	570005	2%	1	0	IN	1.0000	0.8293
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	1	IN	0.4750	0.1466
SKIN/SUBCUTIS	5700	FIBROMA	570009	4%	2	1	MX	0.8595	0.6947
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	1	FA	0.4948	0.1562
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	1	IN	0.7375	0.4860
SKIN/SUBCUTIS	5700	LIPOMA	570013	4%	2	0	IN	1.0000	0.9121
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	0	IN	1.0000	0.8265

C1, C2, High

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	2.22	0.1361
	Depart from Trend	1.61	0.2046
	Homogeneity	3.83	0.1473
Kruskal-Wallis	Dose-Mortality Trend	2.15	0.1426
	Depart from Trend	1.90	0.1681
	Homogeneity	4.05	0.1320

Test for Pair-Wise Comparison of Controls with High Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	0	1	IN	0.4500	0.1346
BRAIN	0100	MENINGIOMA	010003	0%	0	0	1	IN	0.2500	0.0417
BRAIN	0100	GRANULAR CELL TUMOR (MALI)	010008	1%	0	1	0	IN	1.0000	0.8173
NASAL CAVITY, ANTE	0601	SQUAMOUS CARCINOMA	060114	0%	0	0	1	FA	0.3258	0.0752
NASAL CAVITY, POST	0602	ADENOMA	060212	1%	0	1	1	IN	0.5142	0.2699
NASAL CAVITY, MIDD	0604	ADENOMA	060411	1%	0	1	0	IN	1.0000	0.7447
LUNGS	0900	HEMANGIOSARCOMA	090005	1%	1	0	0	FA	1.0000	0.7535
FORESTOMACH	1501	PAPILLOMA	150107	0%	0	0	1	IN	0.2500	0.0417
DUODENUM	1601	CARCINOMA	160102	1%	0	1	0	IN	1.0000	0.7447
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	0	1	IN	0.3017	0.0642
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	2	0	IN	1.0000	0.9271
PANCREAS	2000	ISLET CELL CARCINOMA	200003	1%	0	1	0	IN	1.0000	0.7447
PANCREAS	2000	MIXED ISLET-ACINAR ADENOM	200013	2%	0	2	0	IN	1.0000	0.8667
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	0	0	IN	1.0000	0.7447
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	0	1	IN	0.2500	0.0417
KIDNEYS	2100	LIPOSARCOMA	210012	1%	0	1	0	FA	1.0000	0.7464
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	1	3	IN	0.1607	0.0696
PROSTATE	2700	ADENOMA	270005	2%	1	1	0	IN	1.0000	0.8249
SEMINAL VESICLES	2800	ADENOMA	280007	0%	0	0	1	IN	0.3017	0.0642
PITUITARY ANTERIOR	4101	ADENOMA	410102	27%	14	13	22	MX	0.0231	0.0142
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	1%	1	0	1	IN	0.5067	0.2632
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	11%	6	5	12	IN	0.0232	0.0116
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	7%	5	2	5	MX	0.3305	0.2316
THYROID GLAND	4200	C-CELL ADENOMA	420007	13%	4	9	3	IN	0.9487	0.9010
THYROID GLAND	4200	C-CELL CARCINOMA	420008	1%	0	1	1	IN	0.5142	0.2699
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	1	IN	0.6544	0.4428
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	1	2	3	IN	0.3031	0.1772
ADRENAL CORTEX	4401	HEMANGIOSARCOMA	440116	1%	0	1	0	FA	1.0000	0.7515
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	5%	3	2	4	IN	0.3349	0.2233
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA)	440204	1%	1	0	0	FA	1.0000	0.7527
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	2%	2	0	1	MX	0.7431	0.5401
SYSTEMIC NEOPLASMS	4500	LYMPHOID LEUKEMIA	450002	0%	0	0	1	FA	0.3333	0.0787
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	0	1	FA	0.3265	0.0756
SPLEEN	4600	HEMANGIOSARCOMA	460010	0%	0	0	1	IN	0.3017	0.0642
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	2	1	0	IN	1.0000	0.8713
THYMUS	5000	THYMOMA (MALIGNANT)	500003	1%	1	0	0	FA	1.0000	0.7537
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	1%	1	0	0	IN	1.0000	0.7447
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	3%	1	2	1	IN	0.7475	0.5686
MESENT. LYMPH NODE	5104	LYMPHANGIOMA	510415	2%	2	0	0	IN	1.0000	0.8249
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	0	1	IN	0.3017	0.0642

HARDERIAN GLANDS	5400	ADENOMA	540005	1%	0	1	0	IN	1.0000	0.7447
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	1	1	0	IN	1.0000	0.8279
SKIN/SUBCUTIS	5700	SEBACEOUS ADENOMA	570005	1%	0	1	0	IN	1.0000	0.7473
SKIN/SUBCUTIS	5700	SEBACEOUS CARCINOMA	570006	1%	1	0	0	FA	1.0000	0.7565
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	0	2	IN	0.1382	0.0335
SKIN/SUBCUTIS	5700	FIBROMA	570009	3%	1	2	0	MX	1.0000	0.8797
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	2%	2	0	3	MX	0.2045	0.0986
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	1	1	IN	0.7369	0.5313
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	0	2	0	IN	1.0000	0.8279
SKIN/SUBCUTIS	5700	SARCOMA (UNDIFFERENTIATED)	570014	1%	1	0	0	FA	1.0000	0.7604
BODY CAVITIES	6800	MESOTHELIOMA	680001	1%	1	0	1	FA	0.5000	0.2577
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	1	1	MX	0.6845	0.4777

APPEARS THIS WAY
ON ORIGINAL

C1 vs. High

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.14	0.7105
Kruskal-Wallis	Dose-Mortality Trend	0.23	0.6294

Test for Pairwise Comparison of Control 1 with High Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	1	IN	0.6429	0.2282
BRAIN	0100	MENINGIOMA	010003	0%	0	1	IN	0.2857	0.0570
NASAL CAVITY, ANTE	0601	SQUAMOUS CARCINOMA	060114	0%	0	1	FA	0.5119	0.1645
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	1	IN	0.4795	0.1488
LUNGS	0900	HEMANGIOSARCOMA	090005	2%	1	0	FA	1.0000	0.8363
FORESTOMACH	1501	PAPILLOMA	150107	0%	0	1	IN	0.2857	0.0570
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	1	IN	0.4795	0.1488
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	IN	1.0000	0.9476
KIDNEYS	2100	TUBULAR ADENOMA	210007	2%	1	0	IN	1.0000	0.8315
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	1	IN	0.2857	0.0570
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	3	IN	0.2766	0.1343
PROSTATE	2700	ADENOMA	270005	2%	1	0	IN	1.0000	0.8315
SEMINAL VESICLES	2800	ADENOMA	280007	0%	0	1	IN	0.4795	0.1488
PITUITARY ANTERIOR	4101	ADENOMA	410102	28%	14	22	MX	0.1044	0.0742
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	2%	1	1	IN	0.7234	0.4667
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	12%	6	12	IN	0.0875	0.0539
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	10%	5	5	MX	0.5226	0.3926
THYROID GLAND	4200	C-CELL ADENOMA	420007	8%	4	3	IN	0.8259	0.7053
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	1	IN	0.4795	0.1488
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	IN	0.7250	0.4686
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	2%	1	3	IN	0.3389	0.1739
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	6%	3	4	IN	0.4957	0.3425
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNANT)	440204	2%	1	0	FA	1.0000	0.8415
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	4%	2	1	MX	0.9070	0.7670
SYSTEMIC NEOPLASMS	4500	LYMPHOID LEUKEMIA	450002	0%	0	1	FA	0.5000	0.1588
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	1	FA	0.4948	0.1563
SPLEEN	4600	HEMANGIOSARCOMA	460010	0%	0	1	IN	0.4795	0.1488
THYMUS	5000	THYMOMA (BENIGN)	500002	4%	2	0	IN	1.0000	0.9111
THYMUS	5000	THYMOMA (MALIGNANT)	500003	2%	1	0	FA	1.0000	0.8340
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	2%	1	0	IN	1.0000	0.8315
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	2%	1	1	IN	0.6282	0.3638
MESENT. LYMPH NODE	5104	LYMPHANGIOMA	510415	4%	2	0	IN	1.0000	0.9142
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	1	IN	0.4795	0.1488
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	1	0	IN	1.0000	0.8347
SKIN/SUBCUTIS	5700	SEBACEOUS CARCINOMA	570006	2%	1	0	FA	1.0000	0.8475
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	2	IN	0.3125	0.1043
SKIN/SUBCUTIS	5700	FIBROMA	570009	2%	1	0	IN	1.0000	0.8347
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	4%	2	3	MX	0.5250	0.3463
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	1	IN	0.7394	0.4844
SKIN/SUBCUTIS	5700	SARCOMA (UNDIFFERENTIATED)	570014	2%	1	0	FA	1.0000	0.8468
BODY CAVITIES	6800	MESOTHELIOMA	680001	2%	1	1	FA	0.6667	0.4043
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	1	FA	0.7659	0.5147

C2 vs. High

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	3.10	0.0781
Kruskal-Wallis	Dose-Mortality Trend	4.08	0.0433

Test for Pairwise Comparison of Control 2 with High Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	1	IN	0.6000	0.2073
BRAIN	0100	MENINGIOMA	010003	0%	0	1	IN	0.6667	0.2399
BRAIN	0100	GRANULAR CELL TUMOR (MALI)	010008	2%	1	0	IN	1.0000	0.8898
NASAL CAVITY, ANTE	0601	SQUAMOUS CARCINOMA	060114	0%	0	1	FA	0.4725	0.1455
NASAL CAVITY, POST	0602	ADENOMA	060212	2%	1	1	IN	0.6993	0.4418
NASAL CAVITY, MIDD	0604	ADENOMA	060411	2%	1	0	IN	1.0000	0.8167
FORESTOMACH	1501	PAPILLOMA	150107	0%	0	1	IN	0.6667	0.2399
DUODENUM	1601	CARCINOMA	160102	2%	1	0	IN	1.0000	0.8167
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	1	IN	0.4487	0.1340
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	IN	1.0000	0.9005
PANCREAS	2000	ISLET CELL CARCINOMA	200003	2%	1	0	IN	1.0000	0.8167
PANCREAS	2000	MIXED ISLET-ACINAR ADENOM	200013	4%	2	0	IN	1.0000	0.9335
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	1	IN	0.6667	0.2399
KIDNEYS	2100	LIPOSARCOMA	210012	2%	1	0	FA	1.0000	0.8173
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	3	IN	0.2340	0.1083
PROSTATE	2700	ADENOMA	270005	2%	1	0	IN	1.0000	0.8167
SEMINAL VESICLES	2800	ADENOMA	280007	0%	0	1	IN	0.4487	0.1340
PITUITARY ANTERIOR	4101	ADENOMA	410102	26%	13	22	MX	0.0196	0.0124
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	1	IN	0.4444	0.1319
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	10%	5	12	IN	0.0431	0.0249
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	4%	2	5	MX	0.1910	0.1034
THYROID GLAND	4200	C-CELL ADENOMA	420007	18%	9	3	IN	0.9734	0.9419
THYROID GLAND	4200	C-CELL CARCINOMA	420008	2%	1	1	IN	0.6993	0.4418
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	IN	0.6914	0.4336
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	3	IN	0.4600	0.2897
ADRENAL CORTEX	4401	HEMANGIOSARCOMA	440116	2%	1	0	FA	1.0000	0.8224
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	4%	2	4	IN	0.3584	0.2150
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	0%	0	1	FA	0.4949	0.1563
SYSTEMIC NEOPLASMS	4500	LYMPHOID LEUKEMIA	450002	0%	0	1	FA	0.5000	0.1588
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	1	FA	0.4898	0.1538
SPLEEN	4600	HEMANGIOSARCOMA	460010	0%	0	1	IN	0.4487	0.1340
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	0	IN	1.0000	0.8132
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	4%	2	1	IN	0.8998	0.7484
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	1	IN	0.4487	0.1340
HARDERIAN GLANDS	5400	ADENOMA	540005	2%	1	0	IN	1.0000	0.8167
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILOMA	570003	2%	1	0	IN	1.0000	0.8195
SKIN/SUBCUTIS	5700	SEBACEOUS ADENOMA	570005	2%	1	0	IN	1.0000	0.8195
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	2	IN	0.2727	0.0880
SKIN/SUBCUTIS	5700	FIBROMA	570009	4%	2	0	MX	1.0000	0.9055
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	3	MX	0.0895	0.0272
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	1	IN	0.7818	0.5313
SKIN/SUBCUTIS	5700	LIPOMA	570013	4%	2	0	IN	1.0000	0.9032
BODY CAVITIES	6800	MESOTHELIOMA	680001	0%	0	1	FA	0.5000	0.1588
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	1	MX	0.7081	0.4546

C1,C2 vs. Medium

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	3.83	0.0504
	Depart from Trend	1.52	0.2180
	Homogeneity	5.35	0.0690
Kruskal-Wallis	Dose-Mortality Trend	3.53	0.0602
	Depart from Trend	1.81	0.1784
	Homogeneity	5.34	0.0691

Test for Pairwise Comparison between Controls and Medium Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	0	2	IN	0.0820	0.0131
BRAIN	0100	GRANULAR CELL TUMOR (MALI	010008	1%	0	1	0	IN	1.0000	0.8418
NASAL CAVITY, ANTE	0601	ADENOMA	060113	0%	0	0	1	IN	0.2895	0.0589
NASAL CAVITY, POST	0602	ADENOMA	060212	1%	0	1	0	IN	1.0000	0.7391
NASAL CAVITY, MIDD	0604	ADENOMA	060411	1%	0	1	0	IN	1.0000	0.7391
LUNGS	0900	HEMANGIOSARCOMA	090005	1%	1	0	0	FA	1.0000	0.7540
DUODENUM	1601	CARCINOMA	160102	1%	0	1	0	IN	1.0000	0.7391
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	0	3	IN	0.0227	0.0031
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	2	0	IN	1.0000	0.9306
PANCREAS	2000	ISLET CELL CARCINOMA	200003	1%	0	1	0	IN	1.0000	0.7391
PANCREAS	2000	MIXED ISLET-ACINAR ADENOM	200013	2%	0	2	0	IN	1.0000	0.8792
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	0	0	IN	1.0000	0.7391
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	0	1	IN	0.7500	0.2826
KIDNEYS	2100	LIPOSARCOMA	210012	1%	0	1	0	FA	1.0000	0.7409
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	1	3	IN	0.1446	0.0596
EPIDIDYMIDES	2600	CARCINOMA	260010	0%	0	0	1	IN	0.2895	0.0589
PROSTATE	2700	ADENOMA	270005	2%	1	1	0	IN	1.0000	0.8181
SEMINAL VESICLES	2800	CARCINOMA	280009	0%	0	0	1	IN	0.5000	0.1591
PITUITARY ANTERIOR	4101	ADENOMA	410102	27%	14	13	18	MX	0.1365	0.1018
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	1%	1	0	0	IN	1.0000	0.7392
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	11%	6	5	9	IN	0.1388	0.0895
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	7%	5	2	5	IN	0.3875	0.2797
THYROID GLAND	4200	C-CELL ADENOMA	420007	13%	4	9	10	IN	0.2161	0.1537
THYROID GLAND	4200	C-CELL CARCINOMA	420008	1%	0	1	4	IN	0.0596	0.0203
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	0	IN	1.0000	0.8107
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	1	2	1	IN	0.7507	0.5705
ADRENAL CORTEX	4401	HEMANGIOSARCOMA	440116	1%	0	1	0	FA	1.0000	0.7546
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	5%	3	2	3	IN	0.5583	0.4193
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA	440204	1%	1	0	0	FA	1.0000	0.7558
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	2%	2	0	0	IN	1.0000	0.8792
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	0	2	MX	0.1551	0.0402
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	2	1	1	IN	0.7416	0.5598
THYMUS	5000	THYMOMA (MALIGNANT)	500003	1%	1	0	1	MX	0.5124	0.2707
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	1%	1	0	2	IN	0.2895	0.1283
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	3%	1	2	1	IN	0.7507	0.5705
MESENT. LYMPH NODE	5104	LYMPHANGIOMA	510415	2%	2	0	0	IN	1.0000	0.8181
SALIVARY GLANDS	5300	FIBROSARCOMA	530005	0%	0	0	1	FA	0.2931	0.0605
HARDERIAN GLANDS	5400	ADENOMA	540005	1%	0	1	0	IN	1.0000	0.7391
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	0	3	IN	0.0425	0.0095
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	1	1	1	IN	0.6530	0.4415
SKIN/SUBCUTIS	5700	SEBACEOUS ADENOMA	570005	1%	0	1	0	IN	1.0000	0.7417
SKIN/SUBCUTIS	5700	SEBACEOUS CARCINOMA	570006	1%	1	0	0	FA	1.0000	0.7596
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	0	2	IN	0.1473	0.0375
SKIN/SUBCUTIS	5700	FIBROMA	570009	3%	1	2	2	MX	0.4769	0.3147
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	2%	2	0	2	MX	0.4514	0.2752
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	1	2	MX	0.4377	0.2626
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	0	2	1	IN	0.6530	0.4415

SKIN/SUBCUTIS	5700	SARCOMA (UNDIFFERENTIATED)	570014	1%	I	D	D	FA	1.0000	0.7561
BODY CAVITIES	6800	MESOTHELIOMA	680001	1%	I	D	D	FA	N/A	N/A
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	I	I	D	MX	1.0000	0.8232

APPEARS THIS WAY
ON ORIGINAL

C1 vs. Medium

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.57	0.4515
Kruskal-Wallis	Dose-Mortality Trend	0.66	0.4177

Test for Pairwise Comparison between Control 1 and Medium Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	MED	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	2	IN	0.2125	0.0634
NASAL CAVITY, ANTE	0601	ADENOMA	060113	0%	0	1	IN	0.4648	0.1421
LUNGS	0900	HEMANGIOSARCOMA	090005	2%	1	0	FA	1.0000	0.8367
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	3	IN	0.0955	0.0297
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	IN	1.0000	0.9548
KIDNEYS	2100	TUBULAR ADENOMA	210007	2%	1	0	IN	1.0000	0.8248
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	1	IN	0.7500	0.2826
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	3	IN	0.2555	0.1214
EPIDIDYMIDES	2600	CARCINOMA	260010	0%	0	1	IN	0.4648	0.1421
PROSTATE	2700	ADENOMA	270005	2%	1	0	IN	1.0000	0.8248
SEMINAL VESICLES	2800	CARCINOMA	280009	0%	0	1	IN	0.6875	0.2508
PITUITARY ANTERIOR	4101	ADENOMA	410102	28%	14	18	MX	0.3205	0.2544
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	2%	1	0	IN	1.0000	0.8238
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	12%	6	9	IN	0.3117	0.2192
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	10%	5	5	IN	0.6261	0.4940
THYROID GLAND	4200	C-CELL ADENOMA	420007	8%	4	10	IN	0.1278	0.0765
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	4	IN	0.0974	0.0364
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	IN	1.0000	0.8173
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	2%	1	1	IN	0.7171	0.4605
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	6%	3	3	IN	0.7370	0.5801
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNANT)	440204	2%	1	0	FA	1.0000	0.8447
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	4%	2	0	IN	1.0000	0.9548
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	2	MX	0.3413	0.1162
THYMUS	5000	THYMOMA (BENIGN)	500002	4%	2	1	IN	0.8459	0.6693
THYMUS	5000	THYMOMA (MALIGNANT)	500003	2%	1	1	MX	0.7202	0.4676
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	2%	1	2	IN	0.5594	0.3246
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	2%	1	1	IN	0.7171	0.4605
MESENT. LYMPH NODE	5104	LYMPHANGIOMA	510415	4%	2	0	IN	1.0000	0.9080
SALIVARY GLANDS	5300	FIBROSARCOMA	530005	0%	0	1	FA	0.4722	0.1457
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	3	IN	0.1503	0.0517
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	1	1	IN	0.7242	0.4681
SKIN/SUBCUTIS	5700	SEBACEOUS CARCINOMA	570006	2%	1	0	FA	1.0000	0.8508
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	2	IN	0.3241	0.1087
SKIN/SUBCUTIS	5700	FIBROMA	570009	2%	1	2	IN	0.4566	0.2463
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	4%	2	2	MX	0.7487	0.5657
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	2	MX	0.4835	0.2681
SKIN/SUBCUTIS	5700	LIPOMA	570013	0%	0	1	IN	0.4714	0.1453
SKIN/SUBCUTIS	5700	SARCOMA (UNDIFFERENTIATED)	570014	2%	1	0	FA	1.0000	0.8418
BODY CAVITIES	6800	MESOTHELIOMA	680001	2%	1	0	FA	N/A	N/A
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	0	FA	1.0000	0.8418

C2 vs. Medium

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	4.60	0.0321
Kruskal-Wallis	Dose-Mortality Trend	5.54	0.0186

Test for Pairwise Comparison between Control 2 and Medium Dose

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	2	IN	0.1853	0.0522
BRAIN	0100	GRANULAR CELL TUMOR (MALI	010008	2%	1	0	IN	1.0000	0.9125
NASAL CAVITY, ANTE	0601	ADENOMA	060113	0%	0	1	IN	0.4342	0.1273
NASAL CAVITY, POST	0602	ADENOMA	060212	2%	1	0	IN	1.0000	0.8100
NASAL CAVITY, MIDD	0604	ADENOMA	060411	2%	1	0	IN	1.0000	0.8100
DUODENUM	1601	CARCINOMA	160102	2%	1	0	IN	1.0000	0.8100
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	10%	0	3	IN	0.0776	0.0226
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	IN	1.0000	0.8941
PANCREAS	2000	ISLET CELL CARCINOMA	200003	2%	1	0	IN	1.0000	0.8100
PANCREAS	2000	MIXED ISLET-ACINAR ADENOM	200013	4%	2	0	IN	1.0000	0.9420
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	1	IN	N/A	N/A
KIDNEYS	2100	LIPOSARCOMA	210012	2%	1	0	FA	1.0000	0.8109
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	1	3	IN	0.2148	0.0969
EPIDIDYMIDES	2600	CARCINOMA	260010	0%	0	1	IN	0.4342	0.1273
PROSTATE	2700	ADENOMA	270005	2%	1	0	IN	1.0000	0.8100
SEMINAL VESICLES	2800	CARCINOMA	280009	0%	0	1	IN	0.6471	0.2307
PITUITARY ANTERIOR	4101	ADENOMA	410102	26%	13	18	MX	0.0998	0.0701
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	10%	5	9	IN	0.1480	0.0917
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	4%	2	5	IN	0.1218	0.0596
THYROID GLAND	4200	C-CELL ADENOMA	420007	18%	9	10	IN	0.4171	0.3213
THYROID GLAND	4200	C-CELL CARCINOMA	420008	2%	1	4	IN	0.1997	0.0951
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	IN	1.0000	0.8026
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	1	IN	0.8245	0.6400
ADRENAL CORTEX	4401	HEMANGIOSARCOMA	440116	2%	1	0	FA	1.0000	0.8257
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	4%	2	3	IN	0.4552	0.2849
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	2	MX	0.2953	0.0974
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	1	IN	0.6746	0.4170
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	1	IN	0.4267	0.1236
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	0%	0	2	IN	0.2810	0.0913
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	4%	2	1	IN	0.8245	0.6400
SALIVARY GLANDS	5300	FIBROSARCOMA	530005	0%	0	1	FA	0.4359	0.1287
HARDERIAN GLANDS	5400	ADENOMA	540005	2%	1	0	IN	1.0000	0.8100
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	3	IN	0.1231	0.0408
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	1	1	IN	0.6897	0.4322
SKIN/SUBCUTIS	5700	SEBACEOUS ADENOMA	570005	2%	1	0	IN	1.0000	0.8128
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	2	IN	0.2847	0.0928
SKIN/SUBCUTIS	5700	FIBROMA	570009	4%	2	2	MX	0.6100	0.4188
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	2	FA	0.2336	0.0720
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	1	2	MX	0.5240	0.2991
SKIN/SUBCUTIS	5700	LIPOMA	570013	4%	2	1	IN	0.8300	0.6475
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	0	IN	1.0000	0.8064

Combined Tumors/Tissues for Male Rats

Hemangiomas – all tissues (occurred in only one tissue)

Hemangiosarcomas – all tissues

Hemangiomas and Hemangiosarcomas – all tissues

Hepatocellular adenomas and carcinomas – liver

Adenomas and carcinomas – seminal vesicle

Basal Cell Adenomas and carcinomas – skin

Follicular Cell adenomas and carcinomas – thyroid

[Prostate and Testes had only adenomas, no carcinomas, and are not repeated from detailed Tables]

Test for Dose-Tumor Positive Linear Trend

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	0	1	3	1	4	MX	0.0228	0.0164
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	0	0	1	1	0	IN	0.3804	0.3446
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	0	2	2	2	1	IN	0.2809	0.2828
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	18%	11	7	14	12	16	18	MX	0.0078	0.0069
ALL TISSUES	99	HEMANGIOMA	111	1%	1	0	2	2	0	1	IN	0.6630	0.6892
ALL TISSUES	99	HEMANGIOSARCOMA	222	7%	3	4	2	3	3	4	MX	0.3424	0.3450
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	4	4	3	5	MX	0.4241	0.4293

APPEARS THIS WAY
ON ORIGINAL

C1, Low, Medium, High, Max
Test for Dose-Tumor Positive Linear Trend

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	1	3	1	4	MX	0.0691	0.0602
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	0	1	1	0	IN	0.4745	0.4336
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	2	2	2	1	IN	0.4298	0.4358
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	22%	11	14	12	16	18	MX	0.0456	0.0438
ALL TISSUES	99	HEMANGIOMA	111	2%	1	2	2	0	1	IN	0.8045	0.8111
ALL TISSUES	99	HEMANGIOSARCOMA	222	6%	3	2	3	3	4	MX	0.2677	0.2641
ALL TISSUE	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	4	3	5	MX	0.4264	0.4284

C2, Low Medium, High, Max
Test for Dose-Tumor Positive Linear Trend

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	1	3	1	4	MX	0.0607	0.0521
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	0	1	1	0	IN	0.4593	0.4195
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	2	2	2	1	IN	0.4602	0.4654
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	14%	7	14	12	16	18	MX	0.0111	0.0102
ALL TISSUES	99	HEMANGIOMA	111	0%	0	2	2	0	1	IN	0.6559	0.6781
ALL TISSUES	99	HEMANGIOSARCOMA	222	8%	4	2	3	3	4	MX	0.3596	0.3592
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	4	3	5	MX	0.4245	0.4265

C1, C2, MAX

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	0	4	MX	0.0101	0.0017
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	0	1	IN	0.3193	0.0722
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	18%	11	7	18	IN	0.0178	0.0098
ALL TISSUES	99	HEMANGIOMA	111	1%	1	0	1	IN	0.5385	0.2911
ALL TISSUES	99	HEMANGIOSARCOMA	222	7%	3	4	4	MX	0.6002	0.4823
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	5	MX	0.5062	0.3973

C1 vs. MAX

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	4	MX	0.0594	0.0214
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	1	IN	0.5000	0.1587
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	22%	11	18	IN	0.1190	0.0815
ALL TISSUES	99	HEMANGIOMA	111	2%	1	1	IN	0.7533	0.5001
ALL TISSUES	99	HEMANGIOSARCOMA	222	6%	3	4	MX	0.5518	0.3963
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	5	MX	0.5460	0.4073

C2 vs. MAX

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	4	MX	0.0484	0.0168
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	1	IN	0.4691	0.1438
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	14%	7	18	IN	0.0067	0.0037
ALL TISSUES	99	HEMANGIOMA	111	0%	0	1	IN	0.4691	0.1438
ALL TISSUES	99	HEMANGIOSARCOMA	222	8%	4	4	MX	0.7468	0.6122
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	5	MX	0.5948	0.4534

C1, C2, vs. HIGH

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	CTRL 2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	0	1	IN	0.3017	0.0642
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	0	1	IN	0.3017	0.0642
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	0	2	IN	0.1358	0.0326
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	18%	11	7	16	MX	0.0273	0.0158
ALL TISSUES	99	HEMANGIOMA	111	1%	1	0	0	IN	1.0000	0.7447
ALL TISSUES	99	HEMANGIOSARCOMA	222	7%	3	4	3	MX	0.6745	0.5563
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	3	MX	0.7394	0.6312

C1 VS. HIGH

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	1	IN	0.4795	0.1488
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	1	IN	0.4795	0.1488
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	2	IN	0.3082	0.1025
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	22%	11	16	MX	0.1276	0.0877
ALL TISSUES	99	HEMANGIOMA	111	2%	1	0	IN	1.0000	0.8315
ALL TISSUES	99	HEMANGIOSARCOMA	222	6%	3	3	MX	0.5743	0.4142
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	3	MX	0.7089	0.5680

C2 VS. HIGH

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	1	IN	0.4487	0.1340
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	1	IN	0.4487	0.1340
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	2	IN	0.2692	0.0866
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	14%	7	16	MX	0.0186	0.0105
ALL TISSUES	99	HEMANGIOSARCOMA	222	8%	4	3	MX	0.7965	0.6700
ALL TISSUES	11	HEMANGIOMA AND HEMANGIOSARCOMA	22	8%	4	3	MX	0.7965	0.6700

C1, C2 vs. Medium

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	0	3	IN	0.0227	0.0031
SEMINAL VESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	0	1	IN	0.5000	0.1591
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	0	2	IN	0.1447	0.0366
THYROID GLAND	77	FOLLICULAR CELL ADENOMA AND CARCINOMA	88	18%	11	7	12	IN	0.2443	0.1833
ALL TISSUES	99	HEMANGIOMA	111	1%	1	0	2	IN	0.2895	0.1283
ALL TISSUES	99	HEMANGIOSARCOMA	222	7%	3	4	3	MX	0.6759	0.5575
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	4	MX	0.5585	0.4460

C1 vs. MEDIUM

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	MED	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	3	IN	0.0955	0.0297
SEMINAL VESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	1	IN	0.6875	0.2508
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	2	IN	0.3195	0.1068
THYROID GLAND	77	FOLLICULAR CELL ADENOMA AND CARCINOMA	88	22%	11	12	IN	0.5361	0.4405
ALL TISSUES	99	HEMANGIOMA	111	2%	1	2	IN	0.5594	0.3246
ALL TISSUES	99	HEMANGIOSARCOMA	222	6%	3	3	MX	0.6160	0.4561
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	MX	0.5827	0.4412

C2 vs.MEDIUM

Pair-wise Test

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
LIVER	11	HEPATOCELLULAR ADENOMA AND CARCINOMA	22	0%	0	3	IN	0.0776	0.0226
SEMINALVESICLES	33	ADENOMA AND CARCINOMA	44	0%	0	1	IN	0.6471	0.2307
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	2	IN	0.2810	0.0913
THYROIDGLAND	77	FOLLICULARCELL ADENOMA AND CARCINOMA	88	14%	7	12	IN	0.0872	0.0540
ALL TISSUES	99	HEMANGIOMA	111	0%	0	2	IN	0.2810	0.0913
ALL TISSUES	99	HEMANGIOSARCOMA	222	8%	4	3	MX	0.7426	0.6068
ALL TISSUES	11	HEMANGIOMA and HEMANGIOSARCOMA	22	8%	4	4	MX	0.5788	0.4374

APPEARS THIS WAY
ON ORIGINAL

Number of Animals
 Species: Rat
 Sex: Male

Treatment
 Group
 CTRL1 HIGH Total
 N N N

Week	CTRL1 N	HIGH N	Total N
0-52	1	5	6
53-78	1	6	7
79-91	6	7	13
92-103	11	26	37
104-108	81	106	187
Total	100	150	250

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
 Sex: Male

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	2.72	0.0991
Kruskal-Wallis	Dose-Mortality Trend	2.99	0.0835

Pair-wise Test for Combined Controls and Combined Medium, High, and Maximum Doses

Source: Male Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	Combined Controls	Combined Medium, High, and Max Doses	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	5	MX	0.0734	0.0318
BRAIN	0100	MENINGIOMA	010003	0%	0	1	IN	0.5385	0.1774
BRAIN	0100	GRANULAR CELL TUMOR (MALI	010008	1%	1	0	IN	1.0000	0.9342
NASAL CAVITY, ANTE	0601	ADENOMA	060113	0%	0	1	IN	0.5668	0.1912
NASAL CAVITY, ANTE	0601	SQUAMOUS CARCINOMA	060114	0%	0	1	FA	0.5936	0.2042
NASAL CAVITY, POST	0602	ADENOMA	060212	1%	1	1	IN	0.8137	0.5760
NASAL CAVITY, MIDD	0604	ADENOMA	060411	1%	1	0	IN	1.0000	0.8738
LUNGS	0900	HEMANGIOSARCOMA	090005	1%	1	0	FA	1.0000	0.8833
FORESTOMACH	1501	PAPILLOMA	150107	0%	0	1	IN	0.5385	0.1774
DUODENUM	1601	CARCINOMA	160102	1%	1	0	IN	1.0000	0.8738
DUODENUM	1603	FIBROSARCOMA	160301	0%	0	1	IN	0.5668	0.1912
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	7	IN	0.0172	0.0094
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	0%	0	1	FA	0.5875	0.2012
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	4	3	IN	0.9322	0.8648
PANCREAS	2000	ISLET CELL CARCINOMA	200003	1%	1	0	IN	1.0000	0.8738
PANCREAS	2000	MIXED ISLET-ACINAR ADENOM	200013	2%	2	0	IN	1.0000	0.9702
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	1	IN	0.8001	0.5597
KIDNEYS	2100	TUBULAR CARCINOMA	210008	0%	0	2	IN	0.4615	0.1606
KIDNEYS	2100	LIPOSARCOMA	210012	1%	1	2	MX	0.5813	0.3478
TESTES	2500	LEYDIG CELL ADENOMA	250004	2%	2	10	IN	0.0473	0.0270
EPIDIDYMIDES	2600	CARCINOMA	260010	0%	0	1	IN	0.5668	0.1912
PROSTATE	2700	ADENOMA	270005	2%	2	4	IN	0.4749	0.3085
SEMINAL VESICLES	2800	ADENOMA	280007	0%	0	1	IN	0.5668	0.1912
SEMINAL VESICLES	2800	CARCINOMA	280009	0%	0	1	IN	0.7027	0.2579
PITUITARY ANTERIOR	4101	ADENOMA	410102	27%	27	56	MX	0.0366	0.0287
PITUITARY INTER/NE	4102	PARS	410202	1%	1	1	IN	0.8106	0.5719

		INTERMEDIA ADENOMA							
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	11%	11	37	IN	0.0036	0.0027
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	7%	7	12	MX	0.4376	0.3402
THYROID GLAND	4200	C-CELL ADENOMA	420007	13%	13	19	IN	0.5895	0.5096
THYROID GLAND	4200	C-CELL CARCINOMA	420008	1%	1	7	IN	0.1017	0.0529
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	2	3	IN	0.6078	0.4232
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	3	5	IN	0.5521	0.4004
ADRENAL CORTEX	4401	HEMANGIOSARC OMA	440116	1%	1	0	FA	1.0000	0.8831
ADRENAL MEDULLA	4402	PHEOCHROMOC YTOMA (BENIGN)	440203	5%	5	9	IN	0.4907	0.3737
ADRENAL MEDULLA	4402	PHEOCHROMOC YTOMA (MALIGNA)	440204	1%	1	0	FA	1.0000	0.8844
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCO MA	450001	2%	2	1	MX	0.9484	0.8515
SYSTEMIC NEOPLASMS	4500	LYMPHOID LEUKEMIA	450002	0%	0	2	FA	0.3566	0.1228
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	3	MX	0.2448	0.0899
SPLEEN	4600	HEMANGIOSARC OMA	460010	0%	0	2	IN	0.3200	0.1076
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	3	1	IN	0.9648	0.8978
THYMUS	5000	THYMOMA (MALIGNANT)	500003	1%	1	2	MX	0.6172	0.3790
MESENT. LYMPH NODE	5104	HEMANGIOMA	510402	1%	1	3	IN	0.4752	0.2689
MESENT. LYMPH NODE	5104	HEMANGIOSARC OMA	510403	3%	3	3	IN	0.7668	0.6216
MESENT. LYMPH NODE	5104	LYMPHANGIOM A	510415	2%	2	0	IN	1.0000	0.9477
MANDIBUL. LYMPH NO	5108	HEMANGIOSARC OMA	510806	0%	0	1	IN	0.8571	0.3418
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	1	IN	0.5668	0.1912
SALIVARY GLANDS	5300	FIBROSARCOMA	530005	0%	0	1	FA	0.5684	0.1919
HARDERIAN GLANDS	5400	ADENOMA	540005	1%	1	1	IN	0.8137	0.5760
SKIN/SUBCUTIS	5700	KERATOACANTH OMA	570002	0%	0	6	IN	0.0513	0.0245
SKIN/SUBCUTIS	5700	SQUAMOUS PAPILLOMA	570003	2%	2	1	IN	0.9238	0.8007
SKIN/SUBCUTIS	5700	SEBACEOUS ADENOMA	570005	1%	1	0	IN	1.0000	0.8768

SKIN/SUBCUTIS	5700	SEBACEOUS CARCINOMA	570006	1%	1	0	FA	1.0000	0.8884
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	0%	0	4	IN	0.1596	0.0627
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	1	IN	0.5730	0.1941
SKIN/SUBCUTIS	5700	FIBROMA	570009	3%	3	3	MX	0.7943	0.6562
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	2%	2	6	MX	0.3062	0.1865
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	2%	2	4	MX	0.5399	0.3644
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	2	1	IN	0.9238	0.8007
SKIN/SUBCUTIS	5700	SARCOMA (UNDIFFERENTIATED)	570014	1%	1	0	FA	1.0000	0.8864
BODY CAVITIES	6800	MESOTHELIOMA	680001	1%	1	1	FA	0.5000	0.2577
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	2	1	MX	0.9275	0.8092
THYROIDGLAND	11	FOLLICULAR CELL ADENOMA and CARCINOMA	22	18%	18	46	MX	0.0118	0.0087
LIVER	33	HEPATOCELLULAR ADENOMA and CARCINOMA	44	0%	0	8	MX	0.0101	0.0063
SEMINALVESICLES	55	ADENOMA and CARCINOMA	66	0%	0	2	IN	0.3983	0.1394

APPEARS THIS WAY
ON ORIGINAL

Female Rats

Number of Animals Dying in each Interval

Week							
0-52	2	1	4	.	3	2	12
53-78	1	.	4	4	5	3	17
79-91	8	6	3	2	6	5	30
92-103	10	6	11	4	8	4	43
104-108	29	37	31	40	29	36	202
Total	50	50	53	50	51	50	304

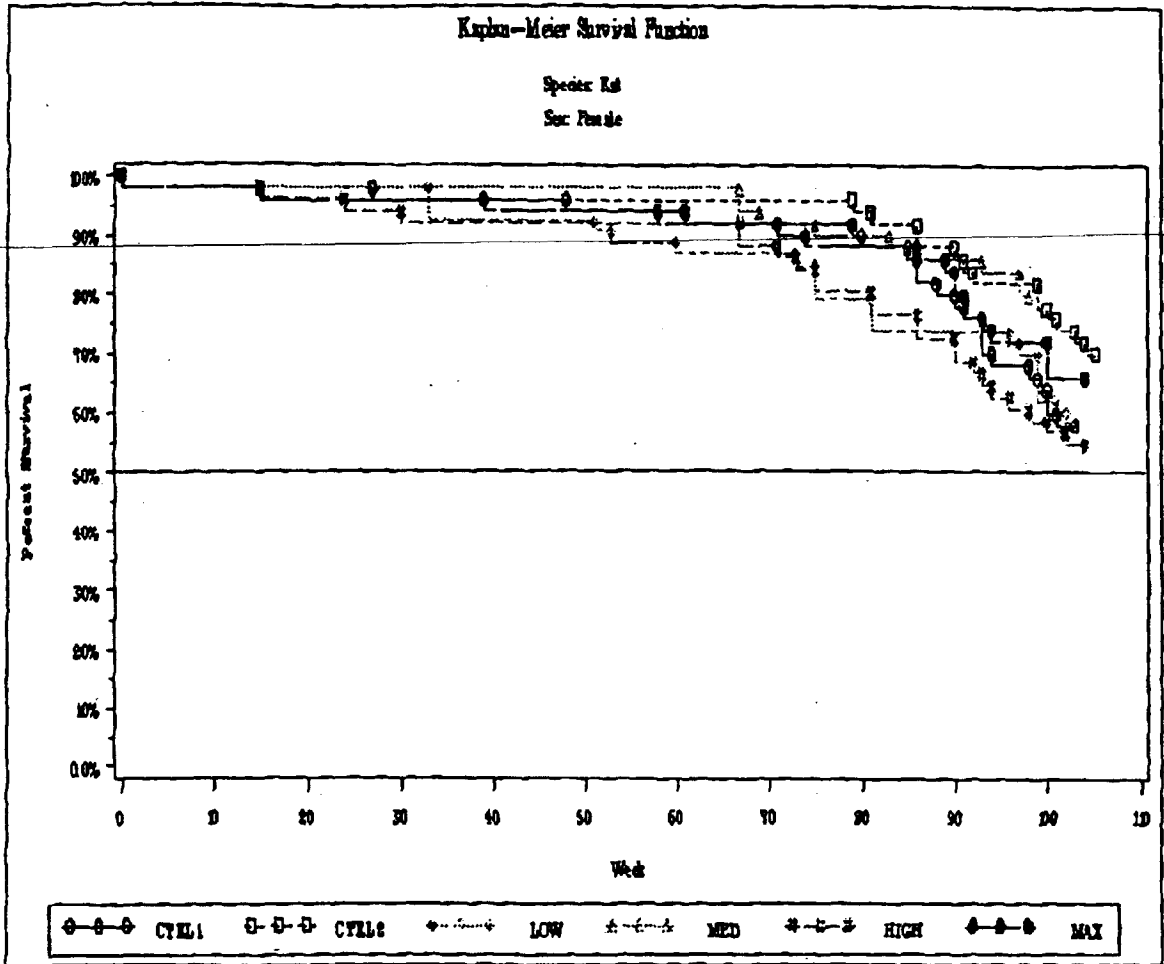
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Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.07	0.7965
	Depart from Trend	10.79	0.0290
	Homogeneity	10.86	0.0542
Kruskal-Wallis	Dose-Mortality Trend	0.17	0.6806
	Depart from Trend	10.54	0.0322
	Homogeneity	10.71	0.0574



Test for Dose-Tumor Positive Linear Trend

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	CTRL 2	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	0	0	0	0	1	IN	0.1782	0.0380
BRAIN	0100	MALIGNANT MENINGIOMA	010011	0%	0	0	1	0	0	0	FA	0.6667	0.7569
BRAIN	0100	CHOROID PLEXUS PAPILOMA	010012	0%	0	0	1	0	0	0	IN	0.6733	0.7589
NASAL CAVITY, POST	0602	CHONDROMA	060207	1%	1	0	0	0	0	0	IN	1.0000	0.8732
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	0	0	0	0	1	IN	0.1667	0.0426
NASAL CAVITY, POST	0602	ORAL CAVITY SEBACEOUS ADE	060217	0%	0	0	0	1	0	0	IN	0.5198	0.6479
FORESTOMACH	1501	SQUAMOUS CARCINOMA	150109	0%	0	0	1	0	0	0	IN	0.6766	0.7600
GLANDULAR STOMACH	1502	SARCOMA (UNDIFFERENTIATED)	150211	0%	0	0	1	0	0	0	FA	0.6595	0.7542
DUODENUM	1601	LEIOMYOMA	160104	0%	0	0	0	0	1	0	IN	0.3234	0.1819
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	1%	0	1	1	0	1	3	IN	0.0370	0.0260
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	1%	1	0	0	0	1	0	IN	0.5122	0.4173
PANCREAS	2000	ISLET CELL ADENOMA	200002	2%	0	2	1	0	0	0	IN	0.9672	0.9121
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	0	0	0	0	0	IN	1.0000	0.7592
KIDNEYS	2100	TUBULAR CARCINOMA	210008	2%	2	0	0	0	0	0	MX	1.0000	0.8551
KIDNEYS	2100	TRANSITIONAL CELL PAPILO	210019	0%	0	0	0	1	0	0	IN	0.5198	0.6479
OVARIES	3200	CYSTADENOMA	320003	2%	2	0	0	0	0	0	IN	1.0000	0.8756
OVARIES	3200	GRANULOSA CELL TUMOR (BEN)	320009	1%	1	0	0	0	0	0	IN	1.0000	0.7921
OVARIES	3200	LUTEOMA	320012	1%	1	0	0	1	0	0	IN	0.6816	0.7817
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	7%	5	2	3	1	3	1	IN	0.7651	0.7691
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	9%	9	0	5	1	4	6	MX	0.2542	0.2540
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	7%	2	5	1	4	0	2	MX	0.8702	0.8668
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	1%	1	0	1	2	3	2	IN	0.0970	0.0857
UTERUS	3400	LEIOMYOMA	340007	1%	1	0	0	0	0	0	IN	1.0000	0.7912
UTERUS	3400	ENDOMETRIAL STROMAL SARCO	340013	0%	0	0	1	0	0	0	IN	0.6190	0.7233
UTERUS	3400	YOLK SAC CARCINOMA	340014	1%	0	1	0	0	0	0	FA	1.0000	0.7840
CLITORAL GLAND	3601	CARCINOMA	360104	0%	0	0	4	0	0	0	IN	0.9360	0.9203
CLITORAL GLAND	3601	ADENOMA	360105	0%	0	0	2	0	0	0	IN	0.7935	0.8286
PITUITARY ANTERIOR	4101	ADENOMA	410102	68%	33	35	35	33	28	25	MX	0.9936	0.9930
PITUITARY ANTERIOR	4101	CARCINOMA	410103	2%	0	2	0	1	1	2	MX	0.1752	0.1527
PITUITARY INTERNE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	0	1	1	0	0	IN	0.6641	0.7911

THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	2	0	1	4	4	IN	0.0164	0.0114
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	1%	0	1	2	0	0	0	IN	0.8930	0.8963
THYROID GLAND	4200	C-CELL ADENOMA	420007	14%	6	8	4	9	5	4	IN	0.8536	0.8518
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	0	1	0	1	0	IN	0.4481	0.4426
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	0	0	1	0	IN	0.6853	0.6558
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	2	1	2	0	2	1	IN	0.5093	0.5293
ADRENAL CORTEX	4401	CORTICAL CARCINOMA	440103	0%	0	0	0	1	0	0	IN	0.5224	0.6492
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	1	3	2	1	2	IN	0.4605	0.4763
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNANT)	440204	1%	0	1	0	1	0	0	IN	0.7731	0.8019
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	1%	1	0	0	0	2	0	MX	0.2596	0.2688
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	0	0	1	0	0	IN	0.4333	0.6458
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	2	1	5	2	1	0	MX	0.9648	0.9527
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	0	1	0	0	1	FA	0.2118	0.2045
LYMPH NODES	5100	HEMANGIOSARCOMA	510003	0%	0	0	0	0	0	1	IN	0.5000	0.1589
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	1%	1	0	0	1	1	0	IN	0.5402	0.5223
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	0	0	0	1	0	IN	0.3218	0.1806
HARDERIAN GLANDS	5400	ADENOMA	540005	0%	0	0	1	0	0	0	IN	0.6733	0.7589
MAMMARY GLAND	5600	FIBROADENOMA	560003	19%	11	8	14	5	7	4	MX	0.9758	0.9720
MAMMARY GLAND	5600	CARCINOMA	560007	8%	3	5	2	0	0	1	MX	0.9777	0.9653
MAMMARY GLAND	5600	ADENOMA	560008	5%	2	3	1	3	1	1	IN	0.8251	0.8248
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	0	0	0	1	0	FA	0.3099	0.1677
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	1%	0	1	0	0	0	0	IN	1.0000	0.7912
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	0	0	1	0	0	IN	0.5198	0.6479
SKIN/SUBCUTIS	5700	FIBROMA	570009	1%	0	1	0	1	0	0	IN	0.7707	0.8005
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	0	0	1	1	0	FA	0.3751	0.3304
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	0%	0	0	0	0	2	0	IN	0.0898	0.0672
SKIN/SUBCUTIS	5700	LIPOMA	570013	1%	1	0	0	0	0	1	IN	0.2814	0.1964
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE)	570032	1%	0	1	0	0	0	0	FA	1.0000	0.7855
BODY CAVITIES	6800	LIPOMA	680003	1%	0	1	0	0	0	0	IN	1.0000	0.8414
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	1%	1	0	0	0	0	1	FA	0.3351	0.2371
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	1%	1	0	0	0	0	0	IN	1.0000	0.7926
FEMUR/JOINT	7100	OSTEOSARCOMA	710006	0%	0	0	1	0	0	0	IN	0.6766	0.7600

C1, Low, Medium, High, Max

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.03	0.8584
	Depart from Trend	8.86	0.0313
	Homogeneity	8.89	0.0640
Kruskal-Wallis	Dose-Mortality Trend	0.00	0.9552
	Depart from Trend	8.36	0.0392
	Homogeneity	8.36	0.0793

Test for Dose-Tumor Positive Linear Trend

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	0	0	0	1	IN	0.2182	0.0595
BRAIN	0100	MALIGNANT MENINGIOMA	010011	0%	0	1	0	0	0	FA	0.8017	0.7997
BRAIN	0100	CHOROID PLEXUS PAPILLOMA	010012	0%	0	1	0	0	0	IN	0.8242	0.8066
NASAL CAVITY, POST	0602	CHONDROMA	060207	2%	1	0	0	0	0	IN	1.0000	0.8732
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	0	0	0	1	IN	0.2083	0.0689
NASAL CAVITY, POST	0602	ORAL CAVITY SEBACEOUS ADE	060217	0%	0	0	1	0	0	IN	0.6364	0.7086
FORESTOMACH	1501	SQUAMOUS CARCINOMA	150109	0%	0	1	0	0	0	IN	0.8242	0.8066
GLANDULAR STOMACH	1502	SARCOMA (UNDIFFERENTIATED)	150211	0%	0	1	0	0	0	FA	0.7965	0.7977
DUODENUM	1601	LEIOMYOMA	160104	0%	0	0	0	1	0	IN	0.3939	0.2371
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	1	0	1	3	IN	0.0291	0.0201
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	2%	1	0	0	1	0	IN	0.5905	0.4998
PANCREAS	2000	ISLET CELL ADENOMA	200002	0%	0	1	0	0	0	IN	0.8242	0.8066
KIDNEYS	2100	TUBULAR ADENOMA	210007	2%	1	0	0	0	0	IN	1.0000	0.7855
KIDNEYS	2100	TUBULAR CARCINOMA	210008	4%	2	0	0	0	0	MX	1.0000	0.8911
KIDNEYS	2100	TRANSITIONAL CELL PAPILLO	210019	0%	0	0	1	0	0	IN	0.6364	0.7086
OVARIES	3200	CYSTADENOMA	320003	4%	2	0	0	0	0	IN	1.0000	0.9157
OVARIES	3200	GRANULOSA CELL TUMOR (BEN)	320009	2%	1	0	0	0	0	IN	1.0000	0.8342
OVARIES	3200	LUTEOMA	320012	2%	1	0	1	0	0	IN	0.7818	0.8351
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	10%	5	3	1	3	1	IN	0.8103	0.8103
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	18%	9	5	1	4	6	MX	0.5877	0.5901
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	4%	2	1	4	0	2	MX	0.7006	0.7039
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	2%	1	1	2	3	2	IN	0.2213	0.2125
UTERUS	3400	LEIOMYOMA	340007	2%	1	0	0	0	0	IN	1.0000	0.8342
UTERUS	3400	ENDOMETRIAL STROMAL SARCO	340013	0%	0	1	0	0	0	IN	0.7222	0.7543
CLITORAL GLAND	3601	CARCINOMA	360104	0%	0	4	0	0	0	IN	0.9812	0.9567
CLITORAL GLAND	3601	ADENOMA	360105	0%	0	2	0	0	0	IN	0.9211	0.8734
PITUITARY ANTERIOR	4101	ADENOMA	410102	66%	33	35	33	28	25	MX	0.9893	0.9888
PITUITARY ANTERIOR	4101	CARCINOMA	410103	0%	0	0	1	1	2	MX	0.0683	0.0474
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	1	1	0	0	IN	0.7961	0.8503
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	0	1	4	4	IN	0.0134	0.0100
THYROID GLAND	4200	FOLLICULAR CELL	420004	0%	0	2	0	0	0	IN	0.9045	0.8914

CARCINOMA												
THYROID GLAND	4200	C-CELL ADENOMA	420007	12%	6	4	9	5	4	TN	0.8140	0.8131
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	1	0	1	0	TN	0.5741	0.5451
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	0	1	0	TN	0.6310	0.5703
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	2	0	2	1	TN	0.5898	0.6032
ADRENAL CORTEX	4401	CORTICAL CARCINOMA	440103	0%	0	0	1	0	0	TN	0.6364	0.7086
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	3	2	1	2	TN	0.5953	0.6056
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNANT)	440204	0%	0	0	1	0	0	TN	0.6364	0.7086
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	2%	1	0	0	2	0	MX	0.3691	0.3795
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	0	1	0	0	TN	0.5417	0.7114
THYMUS	5000	THYMOMA (BENIGN)	500002	4%	2	5	2	1	0	MX	0.9857	0.9772
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	1	0	0	1	FA	0.3189	0.2883
LYMPH NODES	5100	HEMANGIOSARCOMA	510003	0%	0	0	0	0	1	TN	0.5000	0.1589
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	2%	1	0	1	1	0	TN	0.6455	0.6222
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	0	0	1	0	TN	0.3939	0.2371
HARDERIAN GLANDS	5400	ADENOMA	540005	0%	0	1	0	0	0	TN	0.8242	0.8066
MAMMARY GLAND	5600	FIBROADENOMA	560003	22%	11	14	5	7	4	MX	0.9870	0.9846
MAMMARY GLAND	5600	CARCINOMA	560007	6%	3	2	0	0	1	MX	0.9036	0.8937
MAMMARY GLAND	5600	ADENOMA	560008	4%	2	1	3	1	1	TN	0.7551	0.7577
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	0	0	1	0	FA	0.3750	0.2183
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	0	1	0	0	TN	0.6364	0.7086
SKIN/SUBCUTIS	5700	FIBROMA	570009	0%	0	0	1	0	0	TN	0.6364	0.7086
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	0	1	1	0	FA	0.4708	0.4251
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	0%	0	0	0	2	0	TN	0.1278	0.1054
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	1	0	0	0	1	TN	0.3407	0.2657
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	0	0	0	1	FA	0.4071	0.3241
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	2%	1	0	0	0	0	TN	1.0000	0.8431
FEMUR/JOINT	7100	OSTEOSARCOMA	710006	0%	0	1	0	0	0	TN	0.8293	0.8082

C2, Low, Medium, High, Maximum

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.49	0.4830
	Depart from Trend	9.47	0.0237
	Homogeneity	9.96	0.0411
Kruskal-Wallis	Dose-Mortality Trend	0.66	0.4175
	Depart from Trend	9.34	0.0251
	Homogeneity	10.00	0.0404

Test for Dose-Tumor Positive Linear Trend

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 2	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	0	0	0	1	IN	0.2081	0.0539
BRAIN	0100	MALIGNANT MENINGIOMA	010011	0%	0	1	0	0	0	FA	0.7984	0.7987
BRAIN	0100	CHOROID PLEXUS PAPILLOMA	010012	0%	0	1	0	0	0	IN	0.7861	0.7946
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	0	0	0	1	IN	0.2273	0.0812
NASAL CAVITY, POST	0602	ORAL CAVITY SEBACEOUS ADE	060217	0%	0	0	1	0	0	IN	0.6069	0.6934
FORESTOMACH	1501	SQUAMOUS CARCINOMA	150109	0%	0	1	0	0	0	IN	0.7907	0.7961
GLANDULAR STOMACH	1502	SARCOMA (UNDIFFERENTIATED)	150211	0%	0	1	0	0	0	FA	0.7931	0.7966
DUODENUM	1601	LEIOMYOMA	160104	0%	0	0	0	1	0	IN	0.3779	0.2246
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	2%	1	1	0	1	3	IN	0.0699	0.0575
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	0%	0	0	0	1	0	IN	0.3779	0.2246
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	1	0	0	0	IN	0.9914	0.9411
KIDNEYS	2100	TRANSITIONAL CELL PAPILLO	210019	0%	0	0	1	0	0	IN	0.6069	0.6934
OVARIES	3200	LUTEOMA	320012	0%	0	0	1	0	0	IN	0.6105	0.6952
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	4%	2	3	1	3	1	IN	0.5620	0.5729
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	0%	0	5	1	4	6	MX	0.0239	0.0196
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	10%	5	1	4	0	2	MX	0.9023	0.8982
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	0%	0	1	2	3	2	IN	0.1033	0.0925
UTERUS	3400	ENDOMETRIAL STROMAL SARCO	340013	0%	0	1	0	0	0	IN	0.8125	0.7810
UTERUS	3400	YOLK SAC CARCINOMA	340014	2%	1	0	0	0	0	FA	1.0000	0.8168
CLITORAL GLAND	3601	CARCINOMA	360104	0%	0	4	0	0	0	IN	0.9597	0.9385
CLITORAL GLAND	3601	ADENOMA	360105	0%	0	2	0	0	0	IN	0.8528	0.8496
PITUITARY ANTERIOR	4101	ADENOMA	410102	70%	35	35	33	28	25	MX	0.9915	0.9910
PITUITARY ANTERIOR	4101	CARCINOMA	410103	4%	2	0	1	1	2	MX	0.2715	0.2525
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	1	1	0	0	IN	0.7697	0.8390
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	0	1	4	4	IN	0.0160	0.0120
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	2%	1	2	0	0	0	IN	0.9570	0.9353
THYROID GLAND	4200	C-CELL ADENOMA	420007	16%	8	4	9	5	4	IN	0.8532	0.8515
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	1	0	1	0	IN	0.5414	0.5196
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	0	1	0	IN	0.6052	0.5417
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	2%	1	2	0	2	1	IN	0.4153	0.4280
ADRENAL CORTEX	4401	CORTICAL CARCINOMA	440103	0%	0	0	1	0	0	IN	0.6105	0.6952
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	3	2	1	2	IN	0.5355	0.5470
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA)	440204	2%	1	0	1	0	0	IN	0.8497	0.8470
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	0%	0	0	0	2	0	MX	0.1448	0.1387

SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	0	1	0	0	IN	0.5909	0.7408
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	5	2	1	0	MX	0.9683	0.9583
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	1	0	0	1	FA	0.2941	0.2699
LYMPH NODES	5100	HEMANGIOSARCOMA	510003	0%	0	0	0	0	1	IN	0.5000	0.1589
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	0%	0	0	1	1	0	IN	0.4204	0.3865
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	0	0	1	0	IN	0.3757	0.2229
HARDERIAN GLANDS	5400	ADENOMA	540005	0%	0	1	0	0	0	IN	0.7861	0.7946
MAMMARY GLAND	5600	FIBROADENOMA	560003	16%	8	14	5	7	4	MX	0.9535	0.9501
MAMMARY GLAND	5600	CARCINOMA	560007	10%	5	2	0	0	1	IN	0.9663	0.9548
MAMMARY GLAND	5600	ADENOMA	560008	6%	3	1	3	1	1	IN	0.8396	0.8377
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	0	0	1	0	FA	0.3695	0.2140
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	2%	1	0	0	0	0	IN	1.0000	0.8234
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	0	1	0	0	IN	0.6069	0.6934
SKIN/SUBCUTIS	5700	FIBROMA	570009	2%	1	0	1	0	0	IN	0.8469	0.8453
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	0	1	1	0	FA	0.4556	0.4105
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	0%	0	0	0	2	0	IN	0.1366	0.1127
SKIN/SUBCUTIS	5700	LIPOMA	570013	0%	0	0	0	0	1	IN	0.2081	0.0539
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE)	570032	2%	1	0	0	0	0	FA	1.0000	0.8240
BODY CAVITIES	6800	LIPOMA	680003	2%	1	0	0	0	0	IN	1.0000	0.8414
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	0%	0	0	0	0	1	FA	0.2066	0.0543
FEMUR/JOINT	7100	OSTEOSARCOMA	710006	0%	0	1	0	0	0	IN	0.7861	0.7946

APPEARS THIS WAY
ON ORIGINAL

C1 and C2 vs. Max

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.22	0.6368
	Depart from Trend	2.39	0.1219
	Homogeneity	2.62	0.2704
Kruskal-Wallis	Dose-Mortality Trend	0.11	0.7390
	Depart from Trend	2.43	0.1188
	Homogeneity	2.54	0.2802

Test for Pairwise Comparison between Controls and Maximum Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	CTRL 2	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	0	1	IN	0.3529	0.0879
NASAL CAVITY, POST	0602	CHONDROMA	060207	1%	1	0	0	IN	1.0000	0.9584
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	0	1	IN	0.2632	0.0472
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	1%	0	1	3	IN	0.1281	0.0476
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	1%	1	0	0	IN	1.0000	0.6916
PANCREAS	2000	ISLET CELL ADENOMA	200002	2%	0	2	0	IN	1.0000	0.8550
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	0	0	IN	1.0000	0.6916
KIDNEYS	2100	TUBULAR CARCINOMA	210008	2%	2	0	0	MX	1.0000	0.8057
OVARIES	3200	CYSTADENOMA	320003	2%	2	0	0	IN	1.0000	0.8550
OVARIES	3200	GRANULOSA CELL TUMOR (BEN	320009	1%	1	0	0	IN	1.0000	0.7717
OVARIES	3200	LUTEOMA	320012	1%	1	0	0	IN	1.0000	0.7183
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	7%	5	2	1	IN	0.9543	0.8780
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	9%	9	0	6	MX	0.3961	0.2995
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	7%	2	5	2	MX	0.8355	0.7307
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	1%	1	0	2	IN	0.2838	0.1254
UTERUS	3400	LEIOMYOMA	340007	1%	1	0	0	IN	1.0000	0.7700
UTERUS	3400	YOLK SAC CARCINOMA	340014	1%	0	1	0	FA	1.0000	0.7604
PITUITARY ANTERIOR	4101	ADENOMA	410102	68%	33	35	25	MX	0.9919	0.9868
PITUITARY ANTERIOR	4101	CARCINOMA	410103	2%	0	2	2	IN	0.4427	0.2661
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	2	4	IN	0.2023	0.1129
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	1%	0	1	0	IN	1.0000	0.7183
THYROID GLAND	4200	C-CELL ADENOMA	420007	14%	6	8	4	IN	0.9109	0.8527
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	0	IN	1.0000	0.8516
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	2	1	1	IN	0.7961	0.6243
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	1	2	IN	0.3181	0.1648
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA	440204	1%	0	1	0	IN	1.0000	0.7717
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	1%	1	0	0	FA	1.0000	0.7591
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	2	1	0	MX	1.0000	0.8882
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	0	1	FA	0.3400	0.0818
LYMPH NODES	5100	HEMANGIOSARCOMA	510003	0%	0	0	1	IN	N/A	N/A
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	1%	1	0	0	IN	1.0000	0.7753
MAMMARY GLAND	5600	FIBROADENOMA	560003	19%	11	8	4	MX	0.9827	0.9622
MAMMARY GLAND	5600	CARCINOMA	560007	8%	3	5	1	MX	0.9734	0.9185
MAMMARY GLAND	5600	ADENOMA	560008	5%	2	3	1	IN	0.9000	0.7840
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	1%	0	1	0	IN	1.0000	0.7700
SKIN/SUBCUTIS	5700	FIBROMA	570009	1%	0	1	0	IN	1.0000	0.7700
SKIN/SUBCUTIS	5700	LIPOMA	570013	1%	1	0	1	IN	0.4824	0.2367
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE	570032	1%	0	1	0	FA	1.0000	0.7533
BODY CAVITIES	6800	LIPOMA	680003	1%	0	1	0	IN	1.0000	0.8414
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	1%	1	0	1	FA	0.5555	0.3086
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	1%	1	0	0	IN	1.0000	0.7326

C1 vs. Max

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat

Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.90	0.3418
Kruskal-Wallis	Dose-Mortality Trend	0.96	0.3268

Test for Pairwise Comparison between Control 1 and Maximum Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	1	IN	0.5538	0.1848
NASAL CAVITY, POST	0602	CHONDROMA	060207	2%	1	0	IN	1.0000	0.9584
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	1	IN	0.3846	0.1030
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	0%	0	3	IN	0.1635	0.0571
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	2%	1	0	IN	1.0000	0.7366
KIDNEYS	2100	TUBULAR ADENOMA	210007	2%	1	0	IN	1.0000	0.7366
KIDNEYS	2100	TUBULAR CARCINOMA	210008	4%	2	0	MX	1.0000	0.8865
OVARIES	3200	CYSTADENOMA	320003	4%	2	0	IN	1.0000	0.9439
OVARIES	3200	GRANULOSA CELL TUMOR (BEN)	320009	2%	1	0	IN	1.0000	0.8675
OVARIES	3200	LUTEOMA	320012	2%	1	0	IN	1.0000	0.7604
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	10%	5	1	IN	0.9798	0.9318
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	18%	9	6	MX	0.9149	0.8601
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	4%	2	2	MX	0.6376	0.4419
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	2%	1	2	IN	0.5817	0.3449
UTERUS	3400	LEIOMYOMA	340007	2%	1	0	IN	1.0000	0.8675
PITUITARY ANTERIOR	4101	ADENOMA	410102	66%	33	25	MX	0.9803	0.9691
PITUITARY ANTERIOR	4101	CARCINOMA	410103	0%	0	2	IN	0.3029	0.1004
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	4	IN	0.3049	0.1754
THYROID GLAND	4200	C-CELL ADENOMA	420007	12%	6	4	IN	0.8883	0.8069
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	IN	1.0000	0.8683
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	1	IN	0.9163	0.7826
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	2	IN	0.4702	0.2534
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	2%	1	0	FA	1.0000	0.8442
THYMUS	5000	THYMOMA (BENIGN)	500002	4%	2	0	FA	1.0000	0.9275
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	1	FA	0.5397	0.1779
LYMPH NODES	5100	HEMANGIOSARCOMA	510003	0%	0	1	IN	N/A	N/A
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	2%	1	0	IN	1.0000	0.8675
MAMMARY GLAND	5600	FIBROADENOMA	560003	22%	11	4	MX	0.9935	0.9847
MAMMARY GLAND	5600	CARCINOMA	560007	6%	3	1	MX	0.9582	0.8811
MAMMARY GLAND	5600	ADENOMA	560008	4%	2	1	IN	0.8606	0.6821
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	1	1	IN	0.6813	0.4057
ZYMBAL'S GLANDS	5900	CARCINOMA	590002	2%	1	1	FA	0.7646	0.5168
ZYMBAL'S GLANDS	5900	PAPILLOMA	590010	2%	1	0	IN	1.0000	0.8011

C2 vs. Max

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.02	0.8782
Kruskal-Wallis	Dose-Mortality Trend	0.20	0.6531

Test for Pairwise Comparison between Control 2 and Maximum Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	MAX	Tum or type	pValue (Exact)	pValue (Asymp)
BRAIN	0100	ASTROCYTOMA	010002	0%	0	1	TN	0.4932	0.1554
NASAL CAVITY, POST	0602	ADENOMA	060212	0%	0	1	TN	0.4545	0.1367
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	2%	1	3	TN	0.3071	0.1535
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	TN	1.0000	0.9229
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	4%	2	1	TN	0.8803	0.7210
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	0%	0	6	MX	0.0122	0.0054
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	10%	5	2	MX	0.9228	0.8453
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	0%	0	2	TN	0.2397	0.0744
UTERUS	3400	YOLK SAC CARCINOMA	340014	2%	1	0	FA	1.0000	0.8290
PITUITARY ANTERIOR	4101	ADENOMA	410102	70%	35	25	MX	0.9860	0.9773
PITUITARY ANTERIOR	4101	CARCINOMA	410103	4%	2	2	TN	0.6823	0.4889
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	4	TN	0.2968	0.1707
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	2%	1	0	TN	1.0000	0.7930
THYROID GLAND	4200	C-CELL ADENOMA	420007	16%	8	4	TN	0.9168	0.8555
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	TN	1.0000	0.8347
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	2%	1	1	TN	0.7000	0.4433
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	2	TN	0.4493	0.2418
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNANT)	440204	2%	1	0	TN	1.0000	0.8414
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	0	TN	1.0000	0.8312
THYMUS	5000	THYMOMA (MALIGNANT)	500003	0%	0	1	FA	0.4789	0.1485
LYMPH NODES	5100	HEMANGIOSARCOMA	510003	0%	0	1	TN	N/A	N/A
MAMMARY GLAND	5600	FIBROADENOMA	560003	16%	8	4	MX	0.9253	0.8694
MAMMARY GLAND	5600	CARCINOMA	560007	10%	5	1	TN	0.9801	0.9357
MAMMARY GLAND	5600	ADENOMA	560008	6%	3	1	TN	0.9319	0.8277
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	2%	1	0	TN	1.0000	0.8381
SKIN/SUBCUTIS	5700	FIBROMA	570009	2%	1	0	TN	1.0000	0.8381
SKIN/SUBCUTIS	5700	LIPOMA	570013	0%	0	1	TN	0.4932	0.1554
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE)	570032	2%	1	0	FA	1.0000	0.8311
BODY CAVITIES	6800	LIPOMA	680003	2%	1	0	TN	1.0000	0.8414
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	0%	0	1	FA	0.4889	0.1534

C1+C2 vs. High

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	2.09	0.1478
	Depart from Trend	2.01	0.1565
	Homogeneity	4.10	0.1286
Kruskal-Wallis	Dose-Mortality Trend	2.63	0.1045
	Depart from Trend	2.03	0.1539
	Homogeneity	4.67	0.0969

Test for Pairwise Comparison between Controls and High Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
NASAL CAVITY, POST	0602	CHONDROMA	060207	1%	1	0	0	IN	1.0000	0.9873
DUODENUM	1601	LEIOMYOMA	160104	0%	0	0	1	IN	0.3085	0.0673
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	1%	0	1	1	IN	0.5241	0.2779
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	1%	1	0	1	IN	0.5390	0.2938
PANCREAS	2000	ISLET CELL ADENOMA	200002	2%	0	2	0	IN	1.0000	0.8290
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	0	0	IN	1.0000	0.7604
KIDNEYS	2100	TUBULAR CARCINOMA	210008	2%	2	0	0	MX	1.0000	0.8349
OVARIES	3200	CYSTADENOMA	320003	2%	2	0	0	IN	1.0000	0.8290
OVARIES	3200	GRANULOSA CELL TUMOR (BEN)	320009	1%	1	0	0	IN	1.0000	0.7481
OVARIES	3200	LUTEOMA	320012	1%	1	0	0	IN	1.0000	0.7183
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	7%	5	2	3	IN	0.6447	0.5207
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	9%	9	0	4	MX	0.6126	0.5013
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	7%	2	5	0	MX	1.0000	0.9629
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	1%	1	0	3	IN	0.0832	0.0248
UTERUS	3400	LEIOMYOMA	340007	1%	1	0	0	IN	1.0000	0.7465
UTERUS	3400	YOLK SAC CARCINOMA	340014	1%	0	1	0	FA	1.0000	0.7414
PITUITARY ANTERIOR	4101	ADENOMA	410102	68%	33	35	28	MX	0.8662	0.8310
PITUITARY ANTERIOR	4101	CARCINOMA	410103	2%	0	2	1	MX	0.6706	0.4625
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	2	4	IN	0.1853	0.0997
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	1%	0	1	0	IN	1.0000	0.7409
THYROID GLAND	4200	C-CELL ADENOMA	420007	14%	6	8	5	IN	0.7480	0.6609
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	0	1	IN	0.3053	0.0658
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	1	IN	0.6634	0.4511
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	2	1	2	IN	0.4872	0.3236
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	1	1	IN	0.6773	0.4713
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNANT)	440204	1%	0	1	0	IN	1.0000	0.7481
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	1%	1	0	2	MX	0.2262	0.0893
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	2	1	1	MX	0.7640	0.5902
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	1%	1	0	1	IN	0.5236	0.2805
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	0	1	IN	0.3053	0.0658
MAMMARY GLAND	5600	FIBROADENOMA	560003	19%	11	8	7	MX	0.7228	0.6467
MAMMARY GLAND	5600	CARCINOMA	560007	8%	3	5	0	MX	1.0000	0.9725
MAMMARY GLAND	5600	ADENOMA	560008	5%	2	3	1	IN	0.8944	0.7774
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	0	1	FA	0.3017	0.0642
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	1%	0	1	0	IN	1.0000	0.7465
SKIN/SUBCUTIS	5700	FIBROMA	570009	1%	0	1	0	IN	1.0000	0.7465
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	0	1	FA	0.3109	0.0684
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	0%	0	0	2	IN	0.1018	0.0194

SKIN/SUBCUTIS	5700	LIPOMA	570013	1%	1	0	0	IN	1.0000	0.7604
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE)	570032	1%	0	1	0	FA	1.0000	0.7485
BODY CAVITIES	6800	LIPOMA	680003	1%	0	1	0	IN	N/A	N/A
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	1%	1	0	0	FA	1.0000	0.7430
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	1%	1	0	0	IN	1.0000	0.7517

APPEARS THIS WAY
ON ORIGINAL

C1 vs. High

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.12	0.7345
Kruskal-Wallis	Dose-Mortality Trend	0.42	0.5156

Test for Pairwise Comparison between Control 1 and High Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
NASAL CAVITY, POST	0602	CHONDROMA	060207	2%	1	0	TN	1.0000	0.9873
DUODENUM	1601	LEIOMYOMA	160104	10%	0	1	TN	0.5000	0.1588
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	10%	0	1	TN	0.5000	0.1588
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	2%	1	1	TN	0.7222	0.4687
KIDNEYS	2100	TUBULAR ADENOMA	210007	2%	1	0	TN	1.0000	0.8146
KIDNEYS	2100	TUBULAR CARCINOMA	210008	4%	2	0	MX	1.0000	0.9104
OVARIES	3200	CYSTADENOMA	320003	4%	2	0	TN	1.0000	0.9232
OVARIES	3200	GRANULOSA CELL TUMOR (BEN)	320009	2%	1	0	TN	1.0000	0.8415
OVARIES	3200	LUTEOMA	320012	2%	1	0	TN	1.0000	0.7604
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	10%	5	3	TN	0.8221	0.7083
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	18%	9	4	MX	0.9635	0.9279
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	4%	2	0	MX	1.0000	0.9043
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	2%	1	3	TN	0.3057	0.1522
UTERUS	3400	LEIOMYOMA	340007	2%	1	0	TN	1.0000	0.8415
PITUITARY ANTERIOR	4101	ADENOMA	410102	66%	33	28	MX	0.8074	0.7573
PITUITARY ANTERIOR	4101	CARCINOMA	410103	10%	0	1	FA	0.4835	0.1508
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	4	TN	0.2269	0.1201
THYROID GLAND	4200	C-CELL ADENOMA	420007	12%	6	5	TN	0.7104	0.5931
THYROID GLAND	4200	C-CELL CARCINOMA	420008	10%	0	1	TN	0.5000	0.1588
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	TN	0.7545	0.5001
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	2	TN	0.6943	0.5001
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	1	TN	0.7143	0.4597
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	2%	1	2	MX	0.4796	0.2661
THYMUS	5000	THYMOMA (BENIGN)	500002	4%	2	1	MX	0.8669	0.7058
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	2%	1	1	TN	0.7059	0.4501
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	10%	0	1	TN	0.5000	0.1588
MAMMARY GLAND	5600	FIBROADENOMA	560003	22%	11	7	MX	0.8768	0.8159
MAMMARY GLAND	5600	CARCINOMA	560007	6%	3	0	MX	1.0000	0.9565
MAMMARY GLAND	5600	ADENOMA	560008	4%	2	1	TN	0.8635	0.6976
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	10%	0	1	FA	0.4730	0.1457
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	10%	0	1	FA	0.4868	0.1524
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	10%	0	2	TN	0.2222	0.0672
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	1	0	TN	1.0000	0.8146
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	0	FA	1.0000	0.8291
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	2%	1	0	TN	1.0000	0.8229

C2 vs. High

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat

Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	3.24	0.0717
Kruskal-Wallis	Dose-Mortality Trend	4.42	0.0354

Test for Pairwise Comparison between Control 2 and High Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
DUODENUM	1601	LEIOMYOMA	160104	0%	0	1	LN	0.4462	0.1327
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	2%	1	1	LN	0.6971	0.4388
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	0%	0	1	LN	0.4462	0.1327
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	LN	1.0000	0.8997
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	4%	2	3	LN	0.4328	0.2676
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	0%	0	4	LN	0.0330	0.0104
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	10%	5	0	MX	1.0000	0.9793
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	0%	0	3	LN	0.0799	0.0235
UTERUS	3400	YOLK SAC CARCINOMA	340014	2%	1	0	FA	1.0000	0.8079
PITUITARY ANTERIOR	4101	ADENOMA	410102	70%	35	28	MX	0.8735	0.8334
PITUITARY ANTERIOR	4101	CARCINOMA	410103	4%	2	1	MX	0.8364	0.6594
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	4	LN	0.2938	0.1676
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	2%	1	0	LN	1.0000	0.8195
THYROID GLAND	4200	C-CELL ADENOMA	420007	16%	8	5	LN	0.7878	0.6920
THYROID GLAND	4200	C-CELL CARCINOMA	420008	0%	0	1	LN	0.4394	0.1294
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	LN	0.6798	0.4212
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	2%	1	2	LN	0.4462	0.2395
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	1	LN	0.7626	0.5101
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA)	440204	2%	1	0	LN	1.0000	0.8154
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	0%	0	2	MX	0.2079	0.0612
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	1	LN	0.6895	0.4311
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	0%	0	1	LN	0.5385	0.1774
SALIVARY GLANDS	5300	PAROTID ADENOMA	530003	0%	0	1	LN	0.4394	0.1294
MAMMARY GLAND	5600	FIBROADENOMA	560003	16%	8	7	MX	0.5335	0.4270
MAMMARY GLAND	5600	CARCINOMA	560007	10%	5	0	LN	1.0000	0.9851
MAMMARY GLAND	5600	ADENOMA	560008	6%	3	1	LN	0.9151	0.7975
SKIN/SUBCUTIS	5700	KERATOACANTHOMA	570002	0%	0	1	FA	0.4545	0.1368
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	2%	1	0	LN	1.0000	0.8121
SKIN/SUBCUTIS	5700	FIBROMA	570009	2%	1	0	LN	1.0000	0.8121
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	1	FA	0.4625	0.1406
SKIN/SUBCUTIS	5700	HEMANGIOSARCOMA	570012	0%	0	2	LN	0.2511	0.0791
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE)	570032	2%	1	0	FA	1.0000	0.8257
BODY CAVITIES	6800	LIPOMA	680003	2%	1	0	LN	N/A	N/A

C1+C2 vs. Medium

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	2.98	0.0843
	Depart from Trend	2.73	0.0987
	Homogeneity	5.71	0.0577
Kruskal-Wallis	Dose-Mortality Trend	2.50	0.1138
	Depart from Trend	2.80	0.0941
	Homogeneity	5.30	0.0706

Test for Pairwise Comparison between Controls and Medium Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	CTRL 2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
NASAL CAVITY, POST	0602	CHONDROMA	060207	1%	1	0	0	IN	1.0000	0.9774
NASAL CAVITY, POST	0602	ORAL CAVITY SEBACEOUS ADE	060217	0%	0	0	1	IN	0.3774	0.0998
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	1%	0	1	0	IN	1.0000	0.7842
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	1%	1	0	0	IN	1.0000	0.6923
PANCREAS	2000	ISLET CELL ADENOMA	200002	2%	0	2	0	IN	1.0000	0.8678
KIDNEYS	2100	TUBULAR ADENOMA	210007	1%	1	0	0	IN	1.0000	0.6923
KIDNEYS	2100	TUBULAR CARCINOMA	210008	2%	2	0	0	MX	1.0000	0.8156
KIDNEYS	2100	TRANSITIONAL CELL PAPILLO	210019	0%	0	0	1	IN	0.3774	0.0998
OVARIES	3200	CYSTADENOMA	320003	2%	2	0	0	IN	1.0000	0.8678
OVARIES	3200	GRANULOSA CELL TUMOR (BEN	320009	1%	1	0	0	IN	1.0000	0.7842
OVARIES	3200	LUTEOMA	320012	1%	1	0	1	IN	0.3810	0.1016
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	7%	5	2	1	IN	0.9676	0.9054
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	9%	9	0	1	MX	0.9885	0.9559
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	7%	2	5	4	MX	0.5193	0.4028
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	1%	1	0	2	IN	0.3181	0.1486
UTERUS	3400	LEIOMYOMA	340007	1%	1	0	0	IN	1.0000	0.7825
UTERUS	3400	YOLK SAC CARCINOMA	340014	1%	0	1	0	FA	1.0000	0.7695
PITUITARY ANTERIOR	4101	ADENOMA	410102	68%	33	35	33	MX	0.8653	0.8299
PITUITARY ANTERIOR	4101	CARCINOMA	410103	2%	0	2	1	IN	0.7628	0.5636
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	0	1	IN	0.3908	0.1063
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	2	1	IN	0.7764	0.6032
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	1%	0	1	0	IN	1.0000	0.6595
THYROID GLAND	4200	C-CELL ADENOMA	420007	14%	6	8	9	IN	0.4968	0.4071
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	1	0	IN	1.0000	0.8678
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	3%	2	1	0	IN	1.0000	0.8789
ADRENAL CORTEX	4401	CORTICAL CARCINOMA	440103	0%	0	0	1	IN	0.3810	0.1016
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	1	2	IN	0.2952	0.1439
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA	440204	1%	0	1	1	IN	0.6190	0.3643
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	1%	1	0	0	FA	1.0000	0.7597
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	0	1	IN	0.1250	0.0041
THYMUS	5000	THYMOMA (BENIGN)	500002	3%	2	1	2	MX	0.5882	0.4224
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	1%	1	0	1	IN	0.6282	0.3729
MAMMARY GLAND	5600	FIBROADENOMA	560003	19%	11	8	5	MX	0.9626	0.9325
MAMMARY GLAND	5600	CARCINOMA	560007	8%	3	5	0	MX	1.0000	0.9780
MAMMARY GLAND	5600	ADENOMA	560008	5%	2	3	3	IN	0.5117	0.3734
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	1%	0	1	0	IN	1.0000	0.7825
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	0	1	IN	0.3774	0.0998
SKIN/SUBCUTIS	5700	FIBROMA	570009	1%	0	1	1	IN	0.6146	0.3601
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	0	1	FA	0.3529	0.0882
SKIN/SUBCUTIS	5700	LIPOMA	570013	1%	1	0	0	IN	1.0000	0.6923
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE	570032	1%	0	1	0	FA	1.0000	0.7563
BODY CAVITIES	6800	LIPOMA	680003	1%	0	1	0	IN	N/A	N/A
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	1%	1	0	0	FA	1.0000	0.7622
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	1%	1	0	0	IN	1.0000	0.6536

CI vs. Medium

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	4.29	0.0384
Kruskal-Wallis	Dose-Mortality Trend	4.46	0.0348

Test for Pairwise Comparison between Control 1 and Medium Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	MED	Tumor type	pValue (Exact)	pValue (Asymp)
NASAL CAVITY, POST	0602	CHONDROMA	060207	2%	1	0	IN	1.0000	0.9774
NASAL CAVITY, POST	0602	ORAL CAVITY SEBACEOUS ADE	060217	0%	0	1	IN	0.5797	0.1978
LIVER	1800	HEPATOCELLULAR CARCINOMA	180008	2%	1	0	IN	1.0000	0.7372
KIDNEYS	2100	TUBULAR ADENOMA	210007	2%	1	0	IN	1.0000	0.7372
KIDNEYS	2100	TUBULAR CARCINOMA	210008	4%	2	0	MX	1.0000	0.8958
KIDNEYS	2100	TRANSITIONAL CELL PAPILLO	210019	0%	0	1	IN	0.5797	0.1978
OVARIES	3200	CYSTADENOMA	320003	4%	2	0	IN	1.0000	0.9530
OVARIES	3200	GRANULOSA CELL TUMOR (BEN	320009	2%	1	0	IN	1.0000	0.8803
OVARIES	3200	LUTEOMA	320012	2%	1	1	IN	0.5797	0.1978
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	10%	5	1	IN	0.9864	0.9509
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	18%	9	1	MX	0.9997	0.9981
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	4%	2	4	MX	0.3536	0.2114
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	2%	1	2	IN	0.6203	0.3788
UTERUS	3400	LEIOMYOMA	340007	2%	1	0	IN	1.0000	0.8803
PITUITARY ANTERIOR	4101	ADENOMA	410102	66%	33	33	MX	0.8111	0.7579
PITUITARY ANTERIOR	4101	CARCINOMA	410103	0%	0	1	IN	0.5797	0.1978
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	1	IN	0.5862	0.2010
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	1	IN	0.7748	0.5581
THYROID GLAND	4200	C-CELL ADENOMA	420007	12%	6	9	IN	0.5319	0.4134
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	IN	1.0000	0.8844
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	4%	2	0	IN	1.0000	0.9530
ADRENAL CORTEX	4401	CORTICAL CARCINOMA	440103	0%	0	1	IN	0.5797	0.1978
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	2	IN	0.4314	0.2120
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA)	440204	0%	0	1	IN	0.5797	0.1978
SYSTEMIC NEOPLASMS	4500	LYMPHOSARCOMA	450001	2%	1	0	FA	1.0000	0.8446
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	1	IN	0.2000	0.0229
THYMUS	5000	THYMOMA (BENIGN)	500002	4%	2	2	MX	0.7638	0.5853
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	2%	1	1	IN	0.8269	0.5915
MAMMARY GLAND	5600	FIBROADENOMA	560003	22%	11	5	MX	0.9839	0.9677
MAMMARY GLAND	5600	CARCINOMA	560007	6%	3	0	MX	1.0000	0.9762
MAMMARY GLAND	5600	ADENOMA	560008	4%	2	3	IN	0.5418	0.3556
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	1	IN	0.5797	0.1978
SKIN/SUBCUTIS	5700	FIBROMA	570009	0%	0	1	IN	0.5797	0.1978
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	1	FA	0.5455	0.1812
SKIN/SUBCUTIS	5700	LIPOMA	570013	2%	1	0	IN	1.0000	0.7372
ZYMBAL'S GLANDS	6900	CARCINOMA	690002	2%	1	0	FA	1.0000	0.8504
ZYMBAL'S GLANDS	6900	PAPILLOMA	690010	2%	1	0	IN	1.0000	0.7043

C2 vs. Medium

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat
Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox	Dose-Mortality Trend	0.36	0.5512
Kruskal-Wallis	Dose-Mortality Trend	0.44	0.5063

Test for Pairwise Comparison between Control 2 and Medium Dose

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
NASAL CAVITY, POST	0602	ORAL CAVITY SEBACEOUS ADE	060217	0%	0	1	IN	0.5195	0.1686
LIVER	1800	HEPATOCELLULAR ADENOMA	180007	2%	1	0	IN	1.0000	0.8545
PANCREAS	2000	ISLET CELL ADENOMA	200002	4%	2	0	IN	1.0000	0.9335
KIDNEYS	2100	TRANSITIONAL CELL PAPILLO	210019	0%	0	1	IN	0.5195	0.1686
OVARIES	3200	LUTEOMA	320012	0%	0	1	IN	0.5263	0.1719
OVARIES	3200	UNDIFFERENTIATED GONADAL	320014	4%	2	1	IN	0.8984	0.7517
UTERUS	3400	ENDOMETRIAL STROMAL POLYP	340002	0%	0	1	FA	0.4891	0.1539
UTERUS	3400	ENDOMETRIAL CARCINOMA	340004	10%	5	4	MX	0.7230	0.5986
UTERUS	3400	ENDOMETRIAL ADENOMA	340005	0%	0	2	IN	0.2666	0.0857
UTERUS	3400	YOLK SAC CARCINOMA	340014	2%	1	0	FA	1.0000	0.8388
PITUITARY ANTERIOR	4101	ADENOMA	410102	70%	35	33	MX	0.8721	0.8307
PITUITARY ANTERIOR	4101	CARCINOMA	410103	4%	2	1	IN	0.8938	0.7438
PITUITARY INTER/NE	4102	PARS INTERMEDIA ADENOMA	410202	0%	0	1	IN	0.5397	0.1784
THYROID GLAND	4200	FOLLICULAR CELL ADENOMA	420003	4%	2	1	IN	0.8293	0.6374
THYROID GLAND	4200	FOLLICULAR CELL CARCINOMA	420004	2%	1	0	IN	1.0000	0.7189
THYROID GLAND	4200	C-CELL ADENOMA	420007	16%	8	9	IN	0.5911	0.4833
PARATHYROID GLANDS	4300	ADENOMA	430002	2%	1	0	IN	1.0000	0.8512
ADRENAL CORTEX	4401	CORTICAL ADENOMA	440102	2%	1	0	IN	1.0000	0.7189
ADRENAL CORTEX	4401	CORTICAL CARCINOMA	440103	0%	0	1	IN	0.5263	0.1719
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (BENIGN)	440203	2%	1	2	IN	0.4758	0.2615
ADRENAL MEDULLA	4402	PHEOCHROMOCYTOMA (MALIGNA)	440204	2%	1	1	IN	0.7789	0.5305
SYSTEMIC NEOPLASMS	4500	HISTIOCYTIC SARCOMA	450003	0%	0	1	IN	0.2500	0.0418
THYMUS	5000	THYMOMA (BENIGN)	500002	2%	1	2	IN	0.5101	0.2875
MESENT. LYMPH NODE	5104	HEMANGIOSARCOMA	510403	0%	0	1	IN	0.5405	0.1788
MAMMARY GLAND	5600	FIBROADENOMA	560003	16%	8	5	MX	0.8551	0.7772
MAMMARY GLAND	5600	CARCINOMA	560007	10%	5	0	IN	1.0000	0.9800
MAMMARY GLAND	5600	ADENOMA	560008	5%	3	3	IN	0.6142	0.4485
SKIN/SUBCUTIS	5700	BASAL CELL ADENOMA	570007	2%	1	0	IN	1.0000	0.8512
SKIN/SUBCUTIS	5700	BASAL CELL CARCINOMA	570008	0%	0	1	IN	0.5195	0.1686
SKIN/SUBCUTIS	5700	FIBROMA	570009	2%	1	1	IN	0.7724	0.5227
SKIN/SUBCUTIS	5700	FIBROSARCOMA	570010	0%	0	1	FA	0.5000	0.1591
SKIN/SUBCUTIS	5700	CARCINOMA (NOT OTHERWISE)	570032	2%	1	0	FA	1.0000	0.8342
BODY CAVITIES	6800	LIPOMA	680003	2%	1	0	IN	N/A	N/A

FEMALE RATS
COMBINED TUMORS

THERE WERE NO HEMANGIOMAS AMONG THE FEMALE RATS

Test for Dose-Tumor Positive Linear Trend

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	CTRL 2	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	1%	1	0	0	1	3	1	IN	0.0725	0.0579
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMAS	44	2%	1	1	1	0	2	3	IN	0.0449	0.0345
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	2	2	1	4	4	IN	0.0538	0.0465
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	1%	0	1	0	1	0	0	IN	0.7707	0.8005
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	8%	3	5	2	6	3	4	MX	0.4970	0.5032

C1, LOW MEDIUM, HIGH, MAX

Test for Dose-Tumor Positive Linear Trend

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	2%	1	0	1	3	1	IN	0.1382	0.1253
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	1	0	2	3	IN	0.0486	0.0393
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	2	1	4	4	IN	0.0597	0.0533
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	0	1	0	0	IN	0.6364	0.7086
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	6%	3	2	6	3	4	MX	0.4223	0.4238

C2, LOW, MEDIUM, HIGH, MAX

Test for Dose-Tumor Positive Linear Trend

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 2	LOW	MED	HIGH	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	0%	0	0	1	3	1	IN	0.0577	0.0451
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	1	0	2	3	IN	0.0470	0.0384
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	2	1	4	4	IN	0.0680	0.0615
SKIN/ SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	2%	1	0	1	0	0	IN	0.8469	0.8453
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	10%	5	2	6	3	4	MX	0.5570	0.5606

C1, C2 vs. MAX

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL 1	CTRL 2	MAX	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	1%	1	0	1	IN	0.5836	0.3310
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	1	3	IN	0.1884	0.0874
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	2	4	IN	0.2090	0.1181
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	1%	0	1	0	IN	1.0000	0.7700
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	8%	3	5	4	MX	0.5876	0.4763

CI vs. MAX

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tum or Code	Natural Rate (in ctrl group)	CTRL1	MAX	Tu mor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	2%	1	1	TN	0.8048	0.5614
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	3	TN	0.2830	0.1365
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	4	TN	0.2999	0.1717
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	6%	3	4	MX	0.5063	0.3538

There are no basal cell adenomas or carcinomas in either Control 1 or Maximum Dose group

C2 vs. MAX

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tum or Code	Natural Rate (in ctrl group)	CTRL2	MAX	Tu mor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	10%	0	1	TN	0.4932	0.1554
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	3	TN	0.2968	0.1470
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	4	TN	0.3141	0.1832
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	2%	1	0	TN	1.0000	0.8381
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	10%	5	4	MX	0.7084	0.5842

C1, C2 vs. HIGH

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	1%	1	0	3	IN	0.0949	0.0305
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	1	2	IN	0.3698	0.2071
THYROIDGLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	2	4	IN	0.2111	0.1189
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	1%	0	1	0	IN	1.0000	0.7465
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	8%	3	5	3	MX	0.7146	0.6039

C1 vs. HIGH*

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	2%	1	3	IN	0.2665	0.1280
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	2	IN	0.4717	0.2590
THYROID GLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	4	IN	0.2415	0.1304
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	6%	3	3	MX	0.6339	0.4736

There are no basal cell adenomas or carcinomas in either Control 1 or High Dose group

C2 vs. HIGH

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL2	HIGH	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	10%	0	3	IN	0.1352	0.0449
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	2	IN	0.4081	0.2103
THYROIDGLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	4	IN	0.3431	0.2035
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	2%	1	0	IN	1.0000	0.8121
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	10%	5	3	MX	0.7799	0.6597

C1, C2 vs. MEDIUM

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tumor Code	Natural Rate (in ctrl group)	CTRL1	CTRL2	MED	Tumor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	1%	1	0	1	IN	0.6146	0.3601
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	1	0	IN	1.0000	0.8213
THYROIDGLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	2	1	IN	0.7662	0.5893
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	1%	0	1	1	IN	0.6146	0.3601
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	8%	3	5	6	MX	0.3240	0.2334

C1 vs. MEDIUM

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tum or Code	Natural Rate (in ctrl group)	CTRL1	MED	Tu mor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	2%	1	1	IN	0.8269	0.5915
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	0	IN	1.0000	0.7372
THYROIDGLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	1	IN	0.7598	0.5340
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	0%	0	1	IN	0.5797	0.1978
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	6%	3	6	MX	0.3113	0.1988

C2 vs. MEDIUM

Pair-wise Test

Source: Female Rat Data

Organ Name	Organ Code	Tumor Name	Tum or Code	Natural Rate (in ctrl group)	CTRL2	MED	Tu mor type	pValue (Exact)	pValue (Asymp)
ALL TISSUES	11	HEMANGIOSARCOMA	22	0%	0	1	IN	0.5195	0.1686
LIVER	33	HEPATOCELLULAR ADENOMA AND CARCINOMA	44	2%	1	0	IN	1.0000	0.8512
THYROIDGLAND	333	FOLLICULARCELL ADENOMA AND CARCINOMA	444	4%	2	1	IN	0.8293	0.6374
SKIN/SUBCUTIS	55	BASALCELL ADENOMA AND CARCINOMA	66	2%	1	1	IN	0.7724	0.5227
UTERUS	77	ENDOMETRIAL ADENOMA AND CARCINOMA	88	10%	5	6	MX	0.4738	0.3521