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NOTICE

Enclosed you will find a summary listing of tumor rates in the NTP historical control data base as of late March, 1983. All tumors occurring with a frequency of 0.5% or greater are included. This summary will also be published in a future issue of the NTP Technical Bulletin (as may periodic updates). A revised summary listing will be generated approximately every 6-9 months. I hope that this information will be useful to you.

Joe Hazeman

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PROBABLE CONTROL DATA BASE: The following table summarizes tumor incidences in untreated control F344 rats and B6C3F₁ mice in the NTP historical control data base as of March 1983. Included are all tumors with a spontaneous frequency of at least 0.5%. The data base consists of those NTP studies with Technical Report number 193 or greater.

TABLE 6. INCIDENCES OF PRIMARY TUMORS IN UNTREATED CONTROL F344 RATS AND B6C3F₁ MICE^a

	MALE RATS			FEMALE RATS			MALE MICE			FEMALE MICE		
	Number of Tumors(%)	SD (%)	Range (%)	Number of Tumors(%)	SD (%)	Range (%)	Number of Tumors(%)	SD (%)	Range (%)	Number of Tumors(%)	SD (%)	Range (%)
Regimentary System	2320 ^b			2370 ^b			2343 ^b			2486 ^b		
NeuroFibroma	107(4.6)	3.2	0-12	34(1.4)	1.5	0-4	28(1.2)	2.7	0-12	1(<0.1)	0.6	0-4
NeuroFibrosarcoma	27(1.2)	1.4	0-4	20(0.8)	1.3	0-4	66(2.8)	4.4	0-19	21(0.8)	1.9	0-8
Sarcoma, NOS	10(0.4)	1.0	0-4	7(0.3)	0.7	0-2	40(1.7)	2.5	0-12	17(0.7)	1.6	0-10
Squamous Cell Papilloma	29(1.2)	1.7	0-5	6(0.3)	0.7	0-2	3(0.1)	0.5	0-2	6(0.2)	0.7	0-2
Squamous Cell Carcinoma	20(0.9)	1.3	0-4	15(0.6)	1.2	0-4	4(0.2)	0.7	0-4	6(0.2)	0.7	0-2
Basal Cell Neoplasms	22(0.9)	1.6	0-6	6(0.3)	0.7	0-2	2(0.1)	0.4	0-2	5(0.2)	0.8	0-2
Squamous Cell Carcinoma	20(0.9)	1.4	0-4	6(0.3)	0.8	0-4	0(0.0)	0.0		0(0.0)	0.0	
Squamous Cell Carcinoma	12(0.5)	0.9	0-4	1(<0.1)	0.3	0-2	0(0.0)	0.0		0(0.0)	0.0	
Respiratory System												
Alveolar/Bronchiolar Adenoma	2305			2354			2328			2388		
Alveolar/Bronchiolar Adenoma	35(1.5)	2.1	0-6	18(0.8)	1.4	0-6	282(12.1)	6.7	0-28	131(5.5)	3.6	0-14
Alveolar/Bronchiolar Carcinoma	20(0.9)	1.6	0-6	9(0.4)	0.9	0-4	119(5.1)	4.3	0-18	47(2.0)	2.3	0-8
Digestive System												
Neoplastic Nodule or Adenoma	2306			2356			2334			2469		
Neoplastic Nodule or Adenoma	78(3.4)	3.5	0-12	71(3.0)	3.0	0-12	240(10.3)	5.5	0-24	98(4.0)	3.9	0-18
Neoplastic Nodule or Adenoma	18(0.8)	1.1	0-4	4(0.2)	0.7	0-4	498(21.3)	6.9	8-36	101(4.1)	3.0	0-15
Neoplastic Nodule or Adenoma	96(4.2)	3.9	0-14	74(3.1)	3.2	0-12	725(31.1)	7.5	16-58	196(7.9)	4.6	0-20
Neoplastic Nodule or Adenoma	2276			2329			2252			2336		
Squamous Cell Papilloma	5(0.2)	0.6	0-2	5(0.2)	0.8	0-4	6(0.3)	0.7	0-2	12(0.5)	1.5	0-4
Squamous Cell Carcinoma	1(<0.1)	0.3	0-2	2(0.1)	0.4	0-2	0(0.0)	0.0		2(0.1)	0.4	0-2
Squamous Cell Carcinoma	2212			2284			2148			2234		
Squamous Cell Carcinoma	9(0.4)	0.9	0-4	1(<0.1)	0.3	0-2	14(0.7)	1.2	0-4	2(0.1)	0.4	0-2
Endocrine System												
Adipose, Pars Intermedia	2158			2262			1903			2051		
Adipose, Pars Intermedia	468(21.7)	11.7	2-52	995(44.0)	11.4	18-70	11(0.6)	1.5	0-6	163(7.9)	8.5	0-32
Adipose, Pars Intermedia	51(2.4)	3.0	0-11	80(3.5)	4.7	0-19	1(0.1)	0.3	0-2	8(0.4)	0.9	0-5
Adipose, Pars Intermedia	2280			2338			2240			2306		
Adipose, Pars Intermedia	27(1.2)	1.3	0-4	74(3.2)	4.0	0-24	53(2.4)	3.0	0-15	7(0.3)	1.1	0-4
Adipose, Pars Intermedia	5(0.2)	0.6	0-2	7(0.3)	0.7	0-2	3(0.1)	0.6	0-4	1(<0.1)	0.3	0-2
Adipose, Pars Intermedia	388(17.0)	9.2	6-41	81(3.5)	3.0	0-16	28(1.2)	1.9	0-6	16(0.7)	1.2	0-4
Adipose, Pars Intermedia	23(1.0)	1.4	0-6	11(0.5)	1.0	0-4	2(0.1)	0.4	0-2	0(0.0)	0.0	
Adipose, Pars Intermedia	2230			2265			2178			2203		
Adipose, Pars Intermedia	114(5.1)	4.4	0-18	111(4.9)	4.1	0-13	0(0.0)	0.0		2(0.1)	0.4	0-2
Adipose, Pars Intermedia	84(3.8)	3.3	0-12	81(3.6)	3.0	0-12	0(0.0)	0.0		0(0.0)	0.0	
Adipose, Pars Intermedia	22(1.0)	1.4	0-5	10(0.4)	1.0	0-4	22(1.0)	1.6	0-6	40(1.8)	2.1	0-9
Adipose, Pars Intermedia	17(0.8)	1.4	0-7	10(0.4)	0.9	0-2	5(0.2)	0.6	0-2	6(0.3)	1.5	0-10
Adipose, Pars Intermedia	2226			2303			2237			2280		
Adipose, Pars Intermedia	84(3.8)	3.6	0-12	18(0.8)	1.5	0-7	8(0.4)	0.9	0-4	9(0.4)	0.8	0-2
Adipose, Pars Intermedia	46(2.1)	2.3	0-9	6(0.3)	0.8	0-4	0(0.0)	0.0		2(0.1)	0.4	0-2

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INCIDENCES OF PRIMARY TUMORS IN UNTREATED CONTROL F344 RATS AND B6C3F₁ MICE^a (con't)

	MALE RATS			FEMALE RATS			MALE MICE			FEMALE MICE		
	Number of Tumors(%)	SD (%)	Range (%)	Number of Tumors(%)	SD (%)	Range (%)	Number of Tumors(%)	SD (%)	Range (%)	Number of Tumors(%)	SD (%)	Range (%)
Reproductive System												
Primary Gland	2320			2370			2343			2486		
Fibroadenoma	51(2.2)	2.0	0-8	572(24.1)	10.1	2-44	0(0.0)	0.0		8(0.3)	1.1	0-6
Adenocarcinoma	6(0.3)	0.7	0-2	48(2.0)	2.4	0-8	0(0.0)	0.0		40(1.6)	2.3	0-12
Sputial Gland	2320						2343					
Adenoma	50(2.2)	3.4	0-16				2(0.1)	0.4	0-2			
Carcinoma	63(2.7)	3.0	0-10				0(0.0)	0.0				
Ovary	2154						2343					
Adenoma	14(0.6)	2.0	0-10				0(0.0)	0.0				
Stis	2285						2312					
Interstitial Cell Tumor	2002(87.6)	8.9	59-98				8(0.3)	0.9	0-4			
Mammary Gland				2370						2486		
Adenoma				28(1.2)	1.8	0-6				0(0.0)	0.0	
Carcinoma				46(1.9)	2.7	0-12				0(0.0)	0.0	
Uterus				2318						2360		
Endometrial Stromal Polyp				424(18.3)	8.1	4-37				22(0.9)	1.4	0-6
Endometrial Stromal Sarcoma				25(1.1)	1.7	0-6				13(0.6)	1.2	0-4
Ovary				2321						2167		
Granulosa Cell Neoplasms				13(0.6)	1.0	0-4				2(0.1)	0.4	0-2
Tubular Adenoma				0(0.0)	0.0					19(0.9)	1.4	0-7
Hematopoietic System	2320			2370			2343			2486		
Leukemia	648(27.9)	10.2	0-46	414(17.5)	7.4	0-38	17(0.7)	1.7	0-10	52(2.1)	4.6	0-28
Lymphoma	51(2.2)	3.4	0-16	36(1.5)	2.2	0-10	280(12.0)	7.2	2-32	625(25.1)	10.0	8-62
Leukemia/Lymphoma ^c	699(30.1)	10.5	10-54	448(18.9)	7.0	6-38	297(12.7)	7.3	2-32	677(27.2)	9.9	8-62
Respiratory System	2320			2370			2343			2486		
Angioma	4(0.2)	0.6	0-2	2(0.1)	0.4	0-2	34(1.5)	3.3	0-16	39(1.6)	1.9	0-6
Angiosarcoma	12(0.5)	1.1	0-4	3(0.1)	0.5	0-2	64(2.7)	2.6	0-10	48(1.9)	2.3	0-8
Nervous System												
Brain	2301			2348			2303			2378		
Astrocytoma	9(0.4)	1.0	0-4	12(0.5)	1.1	0-4	0(0.0)	0.0		0(0.0)	0.0	
Special Sense Organs												
Adrenal Gland	2320			2370			2343			2486		
Adenoma	1(<0.1)	0.3	0-2	0(0.0)	0.0		50(2.1)	2.8	0-12	32(1.3)	1.7	0-6
Carcinoma	1(<0.1)	0.3	0-2	0(0.0)	0.0		2(0.1)	0.4	0-2	1(<0.1)	0.3	0-2
Musculoskeletal System	2320			2370			2343			2486		
Leiomyosarcoma	12(0.5)	1.0	0-4	7(0.3)	0.8	0-4	3(0.1)	0.7	0-2	14(0.6)	1.1	0-4
Rhabdomyosarcoma	0(0.0)	0.0		2(0.1)	0.4	0-2	12(0.5)	1.6	0-8	2(0.1)	0.4	0-2
Other Tumors	2320			2370			2343			2486		
Squamous (tunica vaginalis)	30(1.3)	1.7	0-8				0(0.0)	0.0				
Squamous (other)	23(1.0)	1.7	0-8	1(<0.1)	0.3	0-2	3(0.1)	0.5	0-2	0(0.0)	0.0	

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^aIncludes all tumors occurring with a frequency of 0.5% or greater.

^bNumber of animals examined histopathologically (or, for certain lesions, the number of animals necropsied).

^cThis combination is included because certain early studies in the data base tended to use these terms interchangeably.