

Lesions in Male Rats

A-7

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 0 mg/m³ (continued)

Number of Days on Study	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	
	4	4	4	4	5	6	6	6	8	8	8	8	8	9	9	9	9	9	9	9	0	0	0	0	
	0	1	5	6	7	9	1	4	6	2	4	5	6	7	0	5	9	9	9	9	0	0	0	0	
Carcass ID Number	3	2	3	2	3	4	4	3	3	3	3	3	4	3	3	3	3	3	3	3	2	2	3	3	4
	6	9	6	9	1	1	1	9	4	2	8	8	1	2	9	3	2	6	7	8	9	9	2	4	1
	7	8	2	1	9	1	0	1	7	3	9	8	5	1	6	7	4	9	1	6	3	7	2	4	9
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
																								Total Tissues/ Tumors	
Alimentary System																									
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine large	+	+	+	+	+	+	A	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine large, cecum	+	A	+	+	+	+	M	A	+	+	A	+	A	+	+	+	+	+	+	A	+	+	+	+	42
Intestine large, colon	+	A	+	+	+	+	A	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine large, rectum	M	+	+	M	+	+	+	A	+	+	A	M	A	M	+	+	+	+	+	+	+	+	+	+	38
Intestine small	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine small, duodenum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine small, ileum	+	A	+	+	+	+	+	A	+	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	39
Intestine small, jejunum	+	A	+	+	+	+	+	A	+	+	A	+	A	+	+	+	+	+	+	A	+	+	+	+	40
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Neoplastic nodule, multiple																									2
Osteosarcoma, metastatic, multiple, bone																X									1
Mesentery				+																					2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cardiovascular System																									
Blood vessel							+														+				4
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Endocrine System																									
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adrenal gland, cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adrenal gland, medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pheochromocytoma malignant																									2
Pheochromocytoma benign							X		X	X			X					X					X	X	13
Bilateral, pheochromocytoma malignant																					X				1
Bilateral, pheochromocytoma benign							X	X	X	X			X	X	X						X	X			12
Islets, pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	47
Adenoma																					X				1
Carcinoma																								X	1
Parathyroid gland	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	45
Pituitary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pars distalis, adenoma	X												X	X					X			X		X	12
Thyroid gland	+	+	+	+	+	+	A	+	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	45
C-cell, adenoma																					X		X		3

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A-8

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 0 mg/m³ (continued)

Number of Days on Study	3 3 4 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7
	3 6 2 5 6 8 9 9 2 2 3 3 5 5 7 8 8 9 0 0 0 0 2 3
	4 0 9 1 8 6 0 3 2 8 1 5 0 6 0 2 2 8 0 0 4 9 4 9
Carcass ID Number	3 3 3 3 4 2 2 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 2 4
	6 0 6 4 1 9 9 1 8 2 3 4 6 1 4 4 4 1 1 8 9 1 9 1
	1 0 8 0 3 4 5 8 7 0 9 2 3 8 5 3 8 7 6 5 0 3 6 4
	1 1
General Body System	
Tissue NOS	+
Genital System	
Epididymis	+ +
Preputial gland	+ +
Adenoma	X
Carcinoma	X
Prostate	+ +
Seminal vesicle	+ +
Testes	+ +
Bilateral, interstitial cell, adenoma	
Interstitial cell, adenoma	X X X X X X X X
Hematopoietic System	
Bone marrow	+ +
Lymph node	+ +
Lymph node, bronchial	+ + + + + M M + + + + + + + + + + + + + + + +
Lymph node, mandibular	+ +
Lymph node, mediastinal	+ +
Lymph node, mesenteric	+ +
Spleen	+ +
Fibrosarcoma	
Osteosarcoma, metastatic, bone	X
Thymus	+ +
Thymoma malignant	X
Integumentary System	
Mammary gland	M +
Adenocarcinoma	
Skin	M +
Subcutaneous tissue, schwannoma malignant	X
Musculoskeletal System	
Bone	+ +
Scapula, osteosarcoma	X
Skeletal muscle	+

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Lesions in Male Rats

A-9

**TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 0 mg/m³ (continued)**

Number of Days on Study	7 8 8 8 8 8	
	4 4 4 4 4 5 6 6 6 8 8 8 8 8 9 9 9 9 9 9 0 0 0 0 0	
	0 1 5 6 7 9 1 4 6 2 4 5 6 7 0 5 9 9 9 9 0 0 0 0 0	
Carcass ID Number	3 2 3 2 3 4 4 3 3 3 3 3 4 3 3 3 3 3 3 3 2 2 3 3 4	Total Tissues/ Tumors
	6 9 6 9 1 1 1 9 4 2 8 8 1 2 9 3 2 6 7 8 9 9 2 4 1	
	7 8 2 1 9 1 0 1 7 3 9 8 5 1 6 7 4 9 1 6 3 7 2 4 9	
General Body System		
Tissue NOS		1
Genital System		
Epididymis	+ +	49
Preputial gland	+ + + + + + + + + + + + + M + + + + + + + + + +	48
Adenoma		1
Carcinoma		1
Prostate	+ +	49
Seminal vesicle	+ +	49
Testes	+ +	49
Bilateral, interstitial cell, adenoma	X X X X X X X X X X X X X X X X	18
Interstitial cell, adenoma		13
Hematopoietic System		
Bone marrow	+ +	48
Lymph node	+ +	49
Lymph node, bronchial	+ + + + + + + + + + + M I + + + M + + + + + + M M	41
Lymph node, mandibular	+ + + + + + + + M + + + + + + M + + + + + + + +	46
Lymph node, mediastinal	+ + + + + + + + + + + + + M + + + + + + + + + +	48
Lymph node, mesenteric	+ +	49
Spleen	+ +	49
Fibrosarcoma		1
Osteosarcoma, metastatic, bone		1
Thymus	+ + + + + + + + + + + M + + + + + + + + + + + +	48
Thymoma malignant		1
Integumentary System		
Mammary gland	+ + + + + + M + + + + + + + + + + + + + + + + +	45
Adenocarcinoma		1
Skin	+ +	48
Subcutaneous tissue, schwannoma malignant		1
Musculoskeletal System		
Bone	+ +	49
Scapula, osteosarcoma		1
Skeletal muscle		1

A-10

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 0 mg/m³ (continued)

Number of Days on Study	3 3 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7
	3 6 2 5 6 8 9 9 2 2 3 3 5 5 7 8 8 9 0 0 0 2 3
	4 0 9 1 8 6 0 3 2 8 1 5 0 6 0 2 2 8 0 0 4 9 4 9
Carcass ID Number	3 3 3 3 4 2 2 3 3 4 3 3 3 4 3 3 3 3 3 3 3 2 4
	6 0 6 4 1 9 9 1 8 2 3 4 6 1 4 4 4 1 1 8 9 1 9 1
	1 0 8 0 3 4 5 8 7 0 9 2 3 8 5 3 8 7 6 5 0 3 6 4
	1 1
Nervous System	
Brain	+ +
Astrocytoma malignant	
Respiratory System	
Larynx	+ 1 +
Lung	+ +
Fibrosarcoma, metastatic, salivary glands	
Osteosarcoma, metastatic, multiple, bone	
Nose	+ +
Chondroma	
Trachea	+ +
Special Senses System	
Eye	
	+ +
Urinary System	
Kidney	+ +
Renal tubule, carcinoma	
Urinary bladder	+ +
Papilloma	
Systemic Lesions	
Multiple organs	+ +
Leukemia mononuclear	X X
Lymphoma malignant lymphocytic	
Mesothelioma benign	X

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Lesions in Male Rats

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 0 mg/m³ (continued)

Number of Days on Study	7 8 8 8 8 8	
	4 4 4 4 4 5 6 6 6 8 8 8 8 8 9 9 9 9 9 9 9 0 0 0 0 0	
	0 1 5 6 7 9 1 4 6 2 4 5 6 7 0 5 9 9 9 9 9 0 0 0 0 0	
Carcass ID Number	3 2 3 2 3 4 4 3 3 3 3 3 4 3 3 3 3 3 3 3 2 2 3 3 4	Total
	6 9 6 9 1 1 1 9 4 2 8 8 1 2 9 3 2 6 7 8 9 9 2 4 1	Tissues/
	7 8 2 1 9 1 0 1 7 3 9 8 5 1 6 7 4 9 1 6 3 7 2 4 9	Tumors
	1 1	
Nervous System		
Brain	+ +	49
Astrocytoma malignant		1
	X	
Respiratory System		
Larynx	+ +	48
Lung	+ +	49
Fibrosarcoma, metastatic, salivary glands		1
Osteosarcoma, metastatic, multiple, bone		1
Nose	+ +	49
Chondroma		1
Trachea	+ +	49
Special Senses System		
Eye		3
	+	
Urinary System		
Kidney	+ +	49
Renal tubule, carcinoma		2
Urinary bladder	+ +	49
Papilloma		1
	X	
Systemic Lesions		
Multiple organs	+ +	49
Leukemia monoclonal	X X X X X X X X X X X X X X X X X	24
Lymphoma malignant lymphocytic		1
Mesothelioma benign		1
	X	

A-12

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 6 mg/m³

Number of Days on Study	1	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7				
	8	2	2	4	5	7	9	9	0	1	3	4	5	5	6	7	7	9	1	2	2	3	3	4	4		
	6	7	9	4	8	3	3	3	4	1	3	8	0	7	3	3	7	0	5	2	8	4	9	0	1		
Carcass ID Number	0	0	1	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1		
	0	2	0	5	0	0	4	0	7	1	7	2	6	3	5	0	0	5	0	1	8	9	8	5	2		
	6	9	7	9	5	4	9	3	3	1	9	8	0	1	7	0	3	3	2	2	3	7	4	6	4		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Alimentary System																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large	+	+	+	A	+	+	+	+	+	A	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	
Intestine large, cecum	+	+	+	A	+	+	+	+	+	A	A	A	+	+	A	+	+	+	+	A	+	+	+	+	A	+	
Intestine large, colon	+	+	+	A	+	+	+	+	+	A	A	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	
Intestine large, rectum	+	+	+	A	+	M	+	+	+	M	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	
Intestine small	+	+	+	A	+	+	+	+	+	A	A	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	
Intestine small, duodenum	+	+	+	A	+	+	+	+	+	A	A	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	
Intestine small, ileum	+	+	+	A	+	+	+	+	+	A	A	A	+	+	A	+	+	+	+	A	+	+	+	+	A	+	
Intestine small, jejunum	+	+	+	A	+	+	+	+	+	A	A	A	+	+	A	+	+	+	+	A	+	+	+	+	A	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Neoplastic nodule, multiple Hepatocyte, adenoma																											
Pancreas	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma																											
Stomach	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, forestomach	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, glandular	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiovascular System																											
Blood vessel										+																+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endocrine System																											
Adrenal gland	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal gland, cortex	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal gland, medulla	+	+	+	+	+	+	+	+	+	A	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma malignant				X																							
Pheochromocytoma complex				X																							
Pheochromocytoma benign				X						X					X	X				X							
Bilateral, pheochromocytoma benign						X	X												X	X	X						
Islets, pancreatic	+	+	+	A	+	+	+	+	+	A	A	+	+	+	M	+	+	+	+	A	+	+	M	+	+	+	
Parathyroid gland	+	+	+	+	+	+	M	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																					X						
Pituitary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars distalis, adenoma						X												X									
Pars distalis, carcinoma																					X			X			
Thyroid gland	+	+	+	A	+	+	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, adenoma																											
C-cell, carcinoma																											

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Lesions in Male Rats

A-13

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 6 mg/m³ (continued)

Number of Days on Study	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8																				Total Tissues/ Tumors				
	4 4 5 5 6 6 8 8 8 8 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0																								
Carcass ID Number	6 7 7 9 1 2 0 1 3 7 1 9 9 9 9 9 9 9 0 0 0 0 0 0 0																				Total Tissues/ Tumors				
	0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1																								
Alimentary System																									
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine large	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine large, cecum	+	+	A	A	A	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	38
Intestine large, colon	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	43
Intestine large, rectum	+	+	M	M	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Intestine small	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine small, ileum	+	A	A	A	A	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	34
Intestine small, jejunum	+	+	+	A	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	38
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Neoplastic nodule, multiple											X													1	
Hepatocyte, adenoma																							X	1	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma											X														1
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Cardiovascular System																									
Blood vessel				+				+	+																5
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endocrine System																									
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adrenal gland, cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adrenal gland, medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pheochromocytoma malignant										X	X														3
Pheochromocytoma complex																						X			2
Pheochromocytoma benign										X						X					X	X			9
Bilateral, pheochromocytoma benign	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	21
Islets, pancreatic	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	41
Parathyroid gland	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	45
Adenoma																									1
Pituitary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars distalis, adenoma		X	X		X	X						X	X					X							11
Pars distalis, carcinoma						X																			1
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
C-cell, adenoma											X	X				X	X								4
C-cell, carcinoma										X															1

A-14

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 6 mg/m³ (continued)

Number of Days on Study	1 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7
	8 2 2 4 5 7 9 9 0 1 3 4 5 5 6 7 7 9 1 2 2 3 3 4 4
	6 7 9 4 8 3 3 3 4 1 3 8 0 7 3 3 7 0 5 2 8 4 9 0 1
Carcass ID Number	0 0 1 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 1
	0 2 0 5 0 0 4 0 7 1 7 2 6 3 5 0 0 5 0 1 8 9 8 5 2
	6 9 7 9 5 4 9 3 3 1 9 8 0 1 7 0 3 3 2 2 3 7 4 6 4
	1 1
General Body System	
Tissue NOS	
Pheochromocytoma malignant, metastatic, adrenal gland	+
	X
Genital System	
Epididymis	+ +
Preputial gland	+ + + + + + + + + M + + + + + + + + + + + +
Adenoma	
Carcinoma	X X
Prostate	+ + + M + + + + M + M + M + + + + + + + + + A
Seminal vesicle	+ + + M + + + + + M + + + + + + + + + + + +
Testes	+ +
Bilateral, interstitial cell, adenoma	X X X X X X X X X X
Interstitial cell, adenoma	X X X X X X X
Hematopoietic System	
Bone marrow	+ + + + + + + + + A A + + + + + + + + + + + +
Lymph node	+ +
Lymph node, bronchial	+ + + + + + + M + + + + + + + + + + A + + + + +
Lymph node, mandibular	+ + + + + + + + + I + + + + + + + + + I + + + +
Lymph node, mediastinal	+ + + + + + M + + + + + + + + + + + + + + + +
Lymph node, mesenteric	+ + + + + + + + + A + + + + + + + + + + + + + +
Spleen	+ +
Fibrous histiocytoma	
Thymus	+ + + M + + + + + + M + + + + M + + + + + I + +
Integumentary System	
Mammary gland	+ + + + + + + M + + + + + + + + + + + + + + + +
Skin	+ +
Fibroma	X
Keratoacanthoma	X
Neurofibroma	
Squamous cell carcinoma	
Subcutaneous tissue, fibroma	
Subcutaneous tissue, fibrosarcoma	

Lesions in Male Rats

A-15

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 6 mg/m³ (continued)

Number of Days on Study	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8	
	4 4 5 5 6 6 8 8 8 8 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0	
	6 7 7 9 1 2 0 1 3 7 1 9 9 9 9 9 9 9 0 0 0 0 0 0 0	
Carcass ID Number	0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1	Total Tissues/ Tumors
	2 3 9 3 2 0 5 5 2 0 3 0 3 3 3 5 7 7 0 7 9 2 2 2 3	
	6 2 8 2 6 4 1 0 8 5 4 1 0 5 6 2 4 5 8 8 9 1 5 9 0	
	1 1	
General Body System		
Tissue NOS		1
Pheochromocytoma malignant, metastatic, adrenal gland		1
Genital System		
Epididymis	+ +	50
Preputial gland	+ +	49
Adenoma		1
Carcinoma		6
Prostate	+ +	45
Seminal vesicle	+ +	48
Testes	+ +	50
Bilateral, interstitial cell, adenoma	X X X	24
Interstitial cell, adenoma	X X	15
Hematopoietic System		
Bone marrow	+ +	48
Lymph node	+ +	50
Lymph node, bronchial	+ +	48
Lymph node, mandibular	+ +	48
Lymph node, mediastinal	+ +	49
Lymph node, mesenteric	+ + + + + I + + + + + + + + + + + + + + + +	48
Spleen	+ +	50
Fibrous histiocytoma		1
Thymus	+ M + + + + + + + M I + + + M + + + + + M + M +	40
Integumentary System		
Mammary gland	M +	48
Skin	+ +	50
Fibroma		2
Keratoacanthoma		2
Neurofibroma		1
Squamous cell carcinoma	X	1
Subcutaneous tissue, fibroma		1
Subcutaneous tissue, fibrosarcoma	X	1

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A-16

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 6 mg/m³ (continued)

Number of Days on Study	1 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7
	8 2 2 4 5 7 9 9 0 1 3 4 5 5 6 7 7 9 1 2 2 3 3 4 4
	6 7 9 4 8 3 3 3 4 1 3 8 0 7 3 3 7 0 5 2 8 4 9 0 1
Carcass ID Number	0 0 1 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 1
	0 2 0 5 0 0 4 0 7 1 7 2 6 3 5 0 0 5 0 1 8 9 8 5 2
	6 9 7 9 5 4 9 3 3 1 9 8 0 1 7 0 3 3 2 2 3 7 4 6 4
	1 1
Musculoskeletal System	
Bone	+ +
Pelvis, osteosarcoma	X
Nervous System	
Brain	+ +
Respiratory System	
Larynx	+ +
Lung	+ +
Alveolar/bronchiolar adenoma	
Osteosarcoma, metastatic	X
Nose	+ + + + + + + + + + A + + + + + + + + + + + + + +
Sarcoma	X
Trachea	+ +
Special Senses System	
Eye	+
Urinary System	
Kidney	+ + + A +
Urinary bladder	+ + + + + + + + + A + + + + + + + + + + + + + +
Systemic Lesions	
Multiple organs	+ +
Leukemia mononuclear	X X X X X X X X X X X X X X X X X X X X

Lesions in Male Rats

A-17

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 6 mg/m³ (continued)

Number of Days on Study	7 8 8 8 8 8 8 8	
	4 4 5 5 6 6 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0	
	6 7 7 9 1 2 0 1 3 7 1 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0	
Carcass ID Number	0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1	Total Tissues/ Tumors
	2 3 9 3 2 0 5 5 2 0 3 0 3 3 3 5 7 7 0 7 9 2 2 2 3	
	1 1	
Musculoskeletal System		
Bone	+ +	50
Pelvis, osteosarcoma		1
Nervous System		
Brain	+ +	50
Respiratory System		
Larynx	+ +	49
Lung	+ +	50
Alveolar/bronchiolar adenoma		1
Osteosarcoma, metastatic		1
Nose	+ + + + + A +	48
Sarcoma		1
Trachea	+ +	50
Special Senses System		
Eye		2
Urinary System		
Kidney	+ +	49
Urinary bladder	+ + + + M +	48
Systemic Lesions		
Multiple organs	+ +	50
Leukemia mononuclear	X X X X X X X X X X X X X X X X	21

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A-18

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 18 mg/m³

Number of Days on Study	2	4	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7			
	4	9	0	9	0	0	1	1	1	1	2	3	4	5	5	7	8	9	9	0	0	1	2	3		
	8	2	0	4	7	9	4	5	5	7	8	4	5	1	1	3	6	3	7	8	1	5	9	2	7	
Carcass ID Number	2	1	2	1	2	1	1	1	2	2	1	2	2	2	2	2	2	2	1	1	2	1	2	1	1	
	1	4	0	7	4	7	7	4	2	6	9	1	5	0	2	6	7	2	7	5	2	5	5	5	7	
	9	5	3	7	4	4	5	9	4	6	5	7	1	2	7	7	0	6	6	2	5	1	2	0	2	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Alimentary System																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large, cecum	+	A	+	A	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	A	+	+	+	
Intestine large, colon	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine large, rectum	+	M	A	+	+	+	+	+	+	M	+	A	+	+	+	+	+	+	M	M	M	M	+	M	+	
Intestine small	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, duodenum	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, ileum	M	A	A	A	+	+	+	+	M	+	+	+	+	A	+	+	+	+	+	+	A	A	A	+	+	
Intestine small, jejunum	+	A	A	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	A	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Neoplastic nodule																										
Neoplastic nodule, multiple																										
Mesentery																										
Pancreas	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, forestomach	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosarcoma				X																						
Stomach, glandular	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosarcoma				X																						
Tongue																										
Cardiovascular System																										
Blood vessel																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endocrine System																										
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal gland, cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal gland, medulla	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteosarcoma, metastatic, uncertain primary site																										
Pheochromocytoma malignant																										
Pheochromocytoma complex																										
Pheochromocytoma benign																										
Bilateral, pheochromocytoma malignant																										
Bilateral, pheochromocytoma benign																										
Islets, pancreatic	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																										
Parathyroid gland	M	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars distalis, adenoma																										
Pars intermedia, adenoma																										
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, adenoma																										
Follicular cell, adenoma																										

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Lesions in Male Rats

A-19

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 18 mg/m³ (continued)

Number of Days on Study	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	
	4	7	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	
	3	8	3	8	1	1	3	4	8	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	
Carcass ID Number	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	
	2	0	4	9	4	7	7	9	4	5	5	6	7	8	9	9	9	9	2	2	4	4	4	6	7	7	
	2	1	2	4	5	4	1	7	6	5	6	9	8	0	3	6	8	0	8	3	6	7	8	5	6		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total Tissues/Tumors																											
Alimentary System																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine large	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine large, cecum	A	A	+	+	A	+	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	37
Intestine large, colon	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine large, rectum	A	A	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	34
Intestine small	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine small, duodenum	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine small, ileum	A	A	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	35
Intestine small, jejunum	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	40
Liver	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Neoplastic nodule																											1
Neoplastic nodule, multiple																									X		3
Mesentery																											1
Pancreas	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, forestomach	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Fibrosarcoma																											1
Stomach, glandular	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Fibrosarcoma																											1
Tongue																											1
Cardiovascular System																											
Blood vessel																											5
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endocrine System																											
Adrenal gland	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adrenal gland, cortex	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adrenal gland, medulla	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Osteosarcoma, metastatic, uncertain primary site																											1
Pheochromocytoma malignant			X	X									X				X	X									6
Pheochromocytoma complex			X																								1
Pheochromocytoma benign	X	X	X				X	X				X	X				X	X	X	X							20
Bilateral, pheochromocytoma malignant					X																						1
Bilateral, pheochromocytoma benign				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	16
Islets, pancreatic	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Adenoma																									X		2
Parathyroid gland	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pituitary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars distalis, adenoma				X		X	X	X	X								X	X						X			10
Pars intermedia, adenoma																											2
Thyroid gland	A	A	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
C-cell, adenoma																									X		3
Follicular cell, adenoma																									X		1

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A-20

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 18 mg/m³ (continued)

Number of Days on Study	2	4	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	4	9	0	9	0	0	1	1	1	1	2	3	4	5	5	5	7	8	9	9	0	0	1	2	3
	8	2	0	4	7	9	4	5	5	7	8	4	5	1	1	3	6	3	7	8	1	5	9	2	7
Carcass ID Number	2	1	2	1	2	1	1	1	2	2	1	2	2	2	2	2	2	1	1	2	1	2	1	1	1
	1	4	0	7	4	7	7	4	2	6	9	1	5	0	2	6	7	2	7	5	2	5	5	5	7
	9	5	3	7	4	4	5	9	4	6	5	7	1	2	7	7	0	6	6	2	5	1	2	0	2
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
General Body System	None																								
Genital System																									
Epididymis	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Penis																									
Preputial gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Adenoma																									
Carcinoma										X															
Prostate	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal vesicle	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bilateral, interstitial cell, adenoma										X					X	X	X			X	X	X		X	
Interstitial cell, adenoma						X	X		X	X	X						X							X	
Hematopoietic System																									
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph node, bronchial	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Lymph node, mandibular	+	+	+	A	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph node, mediastinal	I	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	I	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+
Integumentary System																									
Mammary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basosquamous tumor malignant																	X								
Fibrous histiocytoma																									
Keratoacanthoma						X																			
Musculoskeletal System																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Vertebra, osteosarcoma						X																			

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Lesions in Male Rats

A-21

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 18 mg/m³ (continued)

Number of Days on Study	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8	
	4 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0	
	3 8 3 8 1 1 3 4 8 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0	
Carcass ID Number	2 2 2 1 2 2 2 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	Total Tissues/ Tumors
	2 0 4 9 4 7 7 9 4 5 5 6 7 8 9 9 9 2 2 4 4 4 6 7 7	
	1 1	
General Body System		
None		
Genital System		
Epididymis	+ +	49
Penis		3
Preputial gland	+ +	48
Adenoma		1
Carcinoma		1
Prostate	A +	48
Seminal vesicle	A +	47
Testes	+ +	50
Bilateral, interstitial cell, adenoma	X X	24
Interstitial cell, adenoma		12
Hematopoietic System		
Bone marrow	A A +	47
Lymph node	+ +	50
Lymph node, bronchial	+ +	49
Lymph node, mandibular	A +	47
Lymph node, mediastinal	+ +	47
Lymph node, mesenteric	A A A +	47
Spleen	+ A +	48
Thymus	A + + + M + + + + + + + + + + + + + + + + + + M	43
Integumentary System		
Mammary gland	+ +	50
Skin	+ +	50
Basosquamous tumor malignant		1
Fibrous histiocytoma		1
Keratoacanthoma	X	2
Musculoskeletal System		
Bone	+ +	50
Vertebra, osteosarcoma		1

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A-22

Talc, NTP TR 421

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 18 mg/m³ (continued)

Number of Days on Study	2 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7
	4 9 0 9 0 0 1 1 1 1 2 3 4 5 5 5 7 8 9 9 0 0 1 2 3
	8 2 0 4 7 9 4 5 5 7 8 4 5 1 1 3 6 3 7 8 1 5 9 2 7
Carcass ID Number	2 1 2 1 2 1 1 1 2 2 1 2 2 2 2 2 2 2 1 1 2 1 2 1 1
	1 4 0 7 4 7 7 4 2 6 9 1 5 0 2 6 7 2 7 5 2 5 5 5 7
	9 5 3 7 4 4 5 9 4 6 5 7 1 2 7 7 0 6 6 2 5 1 2 0 2
	1 1
Nervous System	
Brain	+ +
Spinal cord	+
Respiratory System	
Larynx	+ +
Lung	+ +
Alveolar/bronchiolar adenoma	
Alveolar/bronchiolar carcinoma, multiple	
Osteosarcoma, metastatic, uncertain primary site	
Nose	+ +
Trachea	+ +
Special Senses System	
Eye	
	+ +
Urinary System	
Kidney	+ +
Ureter	
Urethra	
Urinary bladder	+ + + A + + + + + + + + + + + + + + + + + + +
Systemic Lesions	
Multiple organs	+ +
Leukemia mononuclear	X X
Mesothelioma malignant	

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Lesions in Male Rats

A-23

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the Lifetime Inhalation Study of Talc: 18 mg/m³ (continued)

Number of Days on Study	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8	
	4 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0	
	3 8 3 8 1 1 3 4 8 9 9 9 9 9 9 9 0 0 0 0 0 0 0	
Carcass ID Number	2 2 2 1 2 2 2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2	Total Tissues/ Tumors
	2 0 4 9 4 7 7 9 4 5 5 6 7 8 9 9 2 2 4 4 4 6 7 7	
	2 1 2 4 5 4 1 7 6 5 6 9 8 0 3 6 8 0 8 3 6 7 8 5 6	
	1 1	
Nervous System		
Brain	+ +	50
Spinal cord		1
Respiratory System		
Larynx	+ A +	49
Lung	+ +	50
Alveolar/bronchiolar adenoma		1
Alveolar/bronchiolar carcinoma, multiple		1
Osteosarcoma, metastatic, uncertain primary site		1
Nose	A + + + + A A + + + + + + + + + + + + + + + + +	47
Trachea	A A +	48
Special Senses System		
Eye		2
Urinary System		
Kidney	A A +	48
Ureter		1
Urethra		1
Urinary bladder	A A +	47
Systemic Lesions		
Multiple organs	+ +	50
Leukemia mononuclear	X X	23
Mesothelioma malignant		1

A-24

Talc, NTP TR 421

TABLE A3
Statistical Analysis of Primary Neoplasms in Male Rats in the Lifetime Inhalation Study of Talc

	0 mg/m ³	6 mg/m ³	18 mg/m ³
Adrenal Medulla: Benign Pheochromocytoma			
Overall rates ^a	25/49 (51%)	30/48 (63%)	36/47 (77%)
Adjusted rates ^b	87.6%	90.2%	100.0%
Terminal rates ^c	6/9 (67%)	11/14 (79%)	16/16 (100%)
First incidence (days)	429	558	614
Life table tests ^d	P=0.434	P=0.515N	P=0.499
Logistic regression tests ^d	P=0.007	P=0.213	P=0.009
Cochran-Armitage test ^d	P=0.007		
Fisher exact test ^a		P=0.175	P=0.008
Adrenal Medulla: Malignant Pheochromocytoma			
Overall rates	3/49 (6%)	3/48 (6%)	7/47 (15%)
Adjusted rates	17.2%	15.2%	31.5%
Terminal rates	1/9 (11%)	1/14 (7%)	3/16 (19%)
First incidence (days)	670	544	645
Life table tests	P=0.242	P=0.552N	P=0.376
Logistic regression tests	P=0.096	P=0.662	P=0.178
Cochran-Armitage test	P=0.083		
Fisher exact test		P=0.651	P=0.142
Adrenal Medulla: Benign, Malignant, or Complex Pheochromocytoma			
Overall rates	26/49 (53%)	32/48 (67%)	37/47 (79%)
Adjusted rates	91.7%	93.6%	100.0%
Terminal rates	7/9 (78%)	12/14 (86%)	16/16 (100%)
First incidence (days)	429	544	614
Life table tests	P=0.483	P=0.549N	P=0.539
Logistic regression tests	P=0.007	P=0.147	P=0.006
Cochran-Armitage test	P=0.007		
Fisher exact test		P=0.123	P=0.007
Liver: Hepatocellular Adenoma or Neoplastic Nodule			
Overall rates	2/49 (4%)	2/50 (4%)	4/48 (8%)
Adjusted rates	11.2%	14.3%	14.9%
Terminal rates	0/9 (0%)	2/14 (14%)	1/16 (6%)
First incidence (days)	698	799 (T)	615
Life table tests	P=0.359	P=0.586N	P=0.434
Logistic regression tests	P=0.248	P=0.661N	P=0.333
Cochran-Armitage test	P=0.237		
Fisher exact test		P=0.684N	P=0.329
Pancreatic Islets: Adenoma			
Overall rates	1/47 (2%)	0/41 (0%)	2/43 (5%)
Adjusted rates	12.5%	0.0%	9.9%
Terminal rates	1/8 (13%)	0/13 (0%)	1/13 (8%)
First incidence (days)	799 (T)	- ^c	617
Life table tests	P=0.387	P=0.403N	P=0.612
Logistic regression tests	P=0.308	P=0.403N	P=0.479
Cochran-Armitage test	P=0.304		
Fisher exact test		P=0.534N	P=0.466

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