

Experiment Number: 05121-08
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 10/16/2014
Time Report Requested: 06:25:43
First Dose M/F: NA / NA
Lab: BAT

C Number:	C03098C
Lock Date:	05/13/1992
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	03/13/1995

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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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 Lab: BAT

B6C3F1 Mouse MALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
Disposition Summary				
Animals Initially In Study	60	50	60	50
Scheduled Sacrifice	10		10	
Early Deaths				
Natural Death	1	2	2	1
Survivors				
Moribund Sacrifice		11		5
Natural Death		9		7
Terminal Sacrifice	49	28	48	37
Animals Examined Microscopically	60	50	60	50

ALIMENTARY SYSTEM

Esophagus	(60)	(50)	(60)	(50)
Gallbladder	(60)	(50)	(58)	(49)
Intestine Large, Cecum	(60)	(50)	(59)	(50)
Intestine Large, Colon	(60)	(50)	(60)	(49)
Intestine Large, Rectum	(59)	(50)	(59)	(50)
Intestine Small, Duodenum	(60)	(50)	(59)	(50)
Carcinoma				1 (2%)
Intestine Small, Ileum	(59)	(50)	(60)	(49)
Intestine Small, Jejunum	(60)	(50)	(60)	(49)
Carcinoma				1 (2%)
Hemangiosarcoma		2 (4%)		
Liver	(60)	(50)	(60)	(50)
Carcinoma, Metastatic, Stomach, Glandular				1 (2%)
Hemangiosarcoma		1 (2%)		
Hepatocellular Adenoma	3 (5%)	7 (14%)		7 (14%)
Hepatocellular Adenoma, Multiple				1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

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* Number of animals with any tissue examined microscopically

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Hepatocellular Carcinoma	2 (3%)	7 (14%)		4 (8%)
Hepatocellular Carcinoma, Multiple			1 (2%)	1 (2%)
Mesentery	(1)	(5)	(0)	(1)
Pancreas	(60)	(50)	(60)	(50)
Salivary Glands	(60)	(50)	(60)	(50)
Stomach, Forestomach	(60)	(50)	(60)	(50)
Squamous Cell Papilloma		1 (2%)	2 (3%)	1 (2%)
Stomach, Glandular	(60)	(50)	(60)	(50)
Carcinoma		1 (2%)		1 (2%)
Tongue	(1)	(0)	(0)	(1)
Tooth	(2)	(3)	(0)	(7)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(60)	(50)	(60)	(50)
Heart	(60)	(50)	(60)	(50)
Carcinoma, Metastatic, Lung		1 (2%)		
ENDOCRINE SYSTEM				
Adrenal Cortex	(60)	(50)	(60)	(50)
Capsule, Adenoma				1 (2%)
Adrenal Medulla	(60)	(50)	(59)	(50)
Pheochromocytoma Benign	1 (2%)			
Islets, Pancreatic	(60)	(50)	(59)	(50)
Adenoma		1 (2%)		1 (2%)
Parathyroid Gland	(49)	(50)	(54)	(47)
Pituitary Gland	(58)	(47)	(38)	(47)
Pars Distalis, Adenoma				3 (6%)
Thyroid Gland	(60)	(50)	(60)	(50)
Follicular Cel, Adenoma		1 (2%)	2 (3%)	

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B6C3F1 Mouse MALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
GENERAL BODY SYSTEM				
Tissue NOS	(0)	(0)	(0)	(1)
Sarcoma				1 (100%)
GENITAL SYSTEM				
Epididymis	(60)	(50)	(60)	(50)
Preputial Gland	(60)	(50)	(59)	(50)
Prostate	(60)	(50)	(60)	(50)
Adenoma		1 (2%)		
Seminal Vesicle	(60)	(50)	(60)	(50)
Testes	(60)	(50)	(60)	(50)
Interstit Cell, Adenoma	2 (3%)			
HEMATOPOIETIC SYSTEM				
Bone Marrow	(60)	(50)	(60)	(50)
Hemangiosarcoma, Metastatic, Spleen		1 (2%)		
Lymph Node	(0)	(4)	(0)	(4)
Hepatocellular Carcinoma, Metastatic, Liver		1 (25%)		
Lymph Node, Bronchial	(0)	(0)	(3)	(0)
Lymph Node, Mandibular	(60)	(48)	(59)	(47)
Lymph Node, Mediastinal	(1)	(7)	(0)	(3)
Carcinoma, Metastatic, Lung		1 (14%)		
Lymph Node, Mesenteric	(60)	(49)	(59)	(46)
Carcinoma, Metastatic, Stomach, Glandular				1 (2%)
Spleen	(60)	(50)	(60)	(50)
Hemangioma		1 (2%)		
Hemangiosarcoma	1 (2%)	2 (4%)		1 (2%)
Thymus	(55)	(34)	(55)	(38)

INTEGUMENTARY SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

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Mammary Gland	(1)	(0)	(0)	(0)
Skin	(60)	(48)	(60)	(50)
Subcut Tiss, Sarcoma	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(60)	(50)	(60)	(50)
Skeletal Muscle	(0)	(0)	(0)	(1)
NERVOUS SYSTEM				
Brain	(60)	(50)	(60)	(50)
Carcinoma, Metastatic, Lung		1 (2%)		
Peripheral Nerve	(0)	(1)	(0)	(1)
Spinal Cord	(0)	(1)	(0)	(1)
RESPIRATORY SYSTEM				
Lung	(60)	(50)	(60)	(50)
Alveolar/Bronchiolar Adenoma	8 (13%)	7 (14%)	7 (12%)	9 (18%)
Alveolar/Bronchiolar Adenoma, Multiple		3 (6%)		2 (4%)
Alveolar/Bronchiolar Carcinoma	2 (3%)	7 (14%)		7 (14%)
Alveolar/Bronchiolar Carcinoma, Multiple				1 (2%)
Carcinoma, Metastatic, Harderian Gland		1 (2%)		
Hepatocellular Carcinoma, Metastatic, Liver		2 (4%)	1 (2%)	1 (2%)
Nose	(60)	(50)	(60)	(50)
Trachea	(60)	(50)	(60)	(50)
SPECIAL SENSES SYSTEM				
Ear	(0)	(2)	(0)	(0)
Eye	(0)	(1)	(0)	(3)
Harderian Gland	(26)	(24)	(26)	(23)
Adenoma	2 (8%)	2 (8%)		4 (17%)
Carcinoma		1 (4%)		

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Carcinoma		1 (4%)		
URINARY SYSTEM				
Kidney	(60)	(50)	(60)	(50)
Carcinoma, Metastatic, Lung		1 (2%)		
Renal Tubule, Adenoma				1 (2%)
Urinary Bladder	(60)	(50)	(59)	(49)
SYSTEMIC LESIONS				
Multiple Organ	*(60)	*(50)	*(60)	*(50)
Histiocytic Sarcoma		3 (6%)		1 (2%)
Lymphoma Malignant Lymphocytic	1 (2%)	5 (10%)	1 (2%)	4 (8%)
Lymphoma Malignant Mixed		5 (10%)		8 (16%)
Lymphoma Malignant Undifferentiated Cell Type		1 (2%)		

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B6C3F1 Mouse MALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
Tumor Summary for MALE				
Total Animals with Primary Neoplasms (b)	19	38	12	40
Total Primary Neoplasms	23	59	13	61
Total Animals with Benign Neoplasms	14	21	10	24
Total Benign Neoplasms	16	24	11	30
Total Animals with Malignant Neoplasms	6	30	2	29
Total Malignant Neoplasms	7	35	2	31
Total Animals with Metastatic Neoplasms		6	1	2
Total Metastatic Neoplasms		9	1	3
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain - Benign or Malignant				
Total Uncertain Neoplasms				

END OF MALE DATA

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B6C3F1 Mouse FEMALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
Disposition Summary				
Animals Initially In Study	60	50	60	50
Scheduled Sacrifice	10		10	
Early Deaths				
Dosing Accident			1	
Moribund Sacrifice	2	4	2	3
Natural Death	1	1	3	2
Survivors				
Dosing Accident				1
Moribund Sacrifice		14		13
Natural Death		11		12
Terminal Sacrifice	47	20	44	19
Animals Examined Microscopically	60	50	60	50

ALIMENTARY SYSTEM

Esophagus	(59)	(50)	(60)	(50)
Gallbladder	(60)	(50)	(60)	(49)
Intestine Large, Cecum	(60)	(49)	(60)	(48)
Intestine Large, Colon	(60)	(49)	(60)	(50)
Intestine Large, Rectum	(60)	(50)	(60)	(49)
Intestine Small, Duodenum	(60)	(50)	(60)	(50)
Intestine Small, Ileum	(57)	(49)	(60)	(50)
Intestine Small, Jejunum	(60)	(50)	(60)	(49)
Sarcoma, Metastatic, Skin				1 (2%)
Liver	(60)	(50)	(60)	(50)
Hepatocellular Adenoma	3 (5%)	11 (22%)	3 (5%)	7 (14%)
Hepatocellular Adenoma, Multiple		1 (2%)		1 (2%)
Hepatocellular Carcinoma		3 (6%)		4 (8%)

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B6C3F1 Mouse FEMALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
Hepatocellular Carcinoma, Multiple		1 (2%)		
Osteosarcoma, Metastatic, Bone			1 (2%)	
Mesentery	(2)	(6)	(0)	(6)
Hemangiosarcoma		1 (17%)		
Sarcoma, Metastatic, Skin		2 (33%)		2 (33%)
Pancreas	(60)	(49)	(60)	(50)
Sarcoma, Metastatic, Skin				1 (2%)
Salivary Glands	(60)	(49)	(60)	(50)
Stomach, Forestomach	(60)	(50)	(60)	(50)
Squamous Cell Papilloma		1 (2%)		
Stomach, Glandular	(60)	(50)	(60)	(50)
Tooth	(0)	(2)	(0)	(2)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(60)	(50)	(60)	(50)
Heart	(60)	(50)	(60)	(50)
Pericardium, Osteosarcoma, Metastatic, Bone			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(59)	(50)	(60)	(50)
Adrenal Medulla	(59)	(49)	(60)	(50)
Pheochromocytoma Benign	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Islets, Pancreatic	(60)	(49)	(60)	(50)
Adenoma		1 (2%)		2 (4%)
Carcinoma		2 (4%)		
Parathyroid Gland	(52)	(45)	(49)	(46)
Pituitary Gland	(56)	(42)	(56)	(49)
Pars Distalis, Adenoma		3 (7%)	1 (2%)	2 (4%)
Pars Intermed, Adenoma	1 (2%)	4 (10%)		2 (4%)

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B6C3F1 Mouse FEMALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
Thyroid Gland	(60)	(50)	(59)	(50)
Bilateral, Follicular Cel, Adenoma				1 (2%)
Follicular Cel, Adenoma	1 (2%)	1 (2%)		
Follicular Cel, Carcinoma				1 (2%)
GENERAL BODY SYSTEM				
Tissue NOS	(0)	(0)	(1)	(0)
GENITAL SYSTEM				
Clitoral Gland	(59)	(50)	(59)	(48)
Ovary	(60)	(49)	(60)	(49)
Adenoma				1 (2%)
Adenoma, Tubular				1 (2%)
Cystadenoma		1 (2%)		2 (4%)
Granulosa Cell Tumor Benign		1 (2%)		
Sarcoma, Metastatic, Skin				1 (2%)
Uterus	(60)	(49)	(60)	(49)
Polyp Stromal		1 (2%)	2 (3%)	2 (4%)
HEMATOPOIETIC SYSTEM				
Blood	(0)	(0)	(0)	(1)
Bone Marrow	(60)	(50)	(60)	(50)
Hemangiosarcoma		2 (4%)		1 (2%)
Hemangiosarcoma, Multiple		1 (2%)		
Lymph Node	(0)	(13)	(0)	(8)
Axillary, Sarcoma, Metastatic, Skin		1 (8%)		
Hepatocellular Carcinoma, Metastatic, Liver		1 (8%)		
Pancreatic, Sarcoma, Metastatic, Skin		1 (8%)		
Lymph Node, Bronchial	(0)	(0)	(1)	(1)
Lymph Node, Mandibular	(60)	(45)	(58)	(47)

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Mast Cell Tumor Nos		1 (2%)		
Lymph Node, Mediastinal	(2)	(12)	(4)	(11)
Sarcoma, Metastatic, Skin		1 (8%)		
Lymph Node, Mesenteric	(51)	(43)	(60)	(48)
Spleen	(60)	(50)	(60)	(50)
Hemangiosarcoma		1 (2%)		3 (6%)
Thymus	(55)	(37)	(59)	(42)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (2%)			
Osteosarcoma, Metastatic, Bone			1 (2%)	
INTEGUMENTARY SYSTEM				
Mammary Gland	(60)	(49)	(60)	(49)
Carcinoma	1 (2%)			
Skin	(60)	(50)	(60)	(50)
Basal Cell Adenoma			1 (2%)	
Squamous Cell Carcinoma				1 (2%)
Subcut Tiss, Fibrosarcoma		1 (2%)		
Subcut Tiss, Sarcoma		4 (8%)		5 (10%)
MUSCULOSKELETAL SYSTEM				
Bone	(60)	(50)	(60)	(50)
Osteosarcoma				1 (2%)
Vertebra, Osteosarcoma			1 (2%)	
Skeletal Muscle	(2)	(0)	(0)	(0)
NERVOUS SYSTEM				
Brain	(60)	(50)	(60)	(50)
Astrocytoma Malignant		1 (2%)		
Peripheral Nerve	(0)	(1)	(3)	(0)

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B6C3F1 Mouse FEMALE	0 MG/KG 104/WEEK	0 MG/KG 20%/36M	25 MG/KG104/WEEK	25 MG/KG20%/36M
Spinal Cord	(0)	(1)	(1)	(0)
RESPIRATORY SYSTEM				
Lung	(60)	(50)	(60)	(50)
Alveolar/Bronchiolar Adenoma	3 (5%)	2 (4%)	2 (3%)	4 (8%)
Alveolar/Bronchiolar Carcinoma	1 (2%)	3 (6%)		2 (4%)
Alveolar/Bronchiolar Carcinoma, Multiple	2 (3%)			
Hepatocellular Carcinoma, Metastatic, Liver		2 (4%)		
Mediastinum, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (2%)			
Osteosarcoma, Metastatic, Bone			1 (2%)	
Nose	(60)	(50)	(59)	(50)
Trachea	(60)	(50)	(59)	(50)
SPECIAL SENSES SYSTEM				
Ear	(0)	(1)	(1)	(1)
Eye	(0)	(1)	(0)	(3)
Harderian Gland	(24)	(22)	(26)	(25)
Adenoma	3 (13%)			2 (8%)
Bilateral, Adenoma				1 (4%)
URINARY SYSTEM				
Kidney	(60)	(50)	(60)	(50)
Osteosarcoma, Metastatic, Bone				1 (2%)
Urinary Bladder	(60)	(49)	(60)	(49)
SYSTEMIC LESIONS				
Multiple Organ	*(60)	*(50)	*(60)	*(50)
Histiocytic Sarcoma	2 (3%)	5 (10%)	3 (5%)	5 (10%)
Lymphoma Malignant Lymphocytic		5 (10%)		4 (8%)
Lymphoma Malignant Mixed	2 (3%)	9 (18%)	3 (5%)	9 (18%)

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B6C3F1 Mouse FEMALE

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0 MG/KG 20%/36M

25 MG/KG104/WEEK

25 MG/KG20%/36M

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Tumor Summary for FEMALE				
Total Animals with Primary Neoplasms (b)	19	42	16	41
Total Primary Neoplasms	20	68	17	65
Total Animals with Benign Neoplasms	12	22	10	18
Total Benign Neoplasms	12	28	10	29
Total Animals with Malignant Neoplasms	8	35	7	31
Total Malignant Neoplasms	8	39	7	36
Total Animals with Metastatic Neoplasms	1	4	1	3
Total Metastatic Neoplasms	2	8	4	6
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain - Benign or Malignant		1		
Total Uncertain Neoplasms		1		

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically