

**Experiment Number:** 20006 - 04

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

**Date Report Requested:** 06/15/2012

**Test Type:** CHRONIC

Indole-3-carbinol

**Time Report Requested:** 12:41:18

**Route:** GAVAGE

**CAS Number:** 700-06-1

**First Dose M/F:** 04/03/07 / 04/02/07

**Species/Strain:** MICE/B6C3F1

**Lab:** BAT

F1\_M3

**NTP Study Number:** C20006B  
**Lock Date:** 03/08/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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Species/Strain: MICE/B6C3F1

Lab: BAT

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
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**Disposition Summary**

Animals Initially In Study	50	50	50	50
Early Deaths				
Accidentally Killed				1
Dosing Accident			1	
Moribund Sacrifice	17	12	11	9
Natural Death	6	7	6	8
Survivors				
Natural Death	1			
Terminal Sacrifice	26	31	32	32
Animals Examined Microscopically	50	50	50	50

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(50)	(50)	(49)	(48)
Carcinoma, Metastatic, Pancreas			1 (2%)	
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (2%)			
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Adenoma	2 (4%)			1 (2%)
Carcinoma				2 (4%)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(49)	(50)
Adenoma	1 (2%)		1 (2%)	
Liver	(50)	(50)	(49)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)		
Carcinoma, Metastatic, Intestine Small, Duodenum				1 (2%)
Fibrous Histiocytoma		1 (2%)		
Hemangioma				1 (2%)
Hemangiosarcoma	3 (6%)	2 (4%)	1 (2%)	2 (4%)

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

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Lab: BAT

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Hemangiosarcoma, Multiple	1 (2%)	2 (4%)		1 (2%)
Hepatoblastoma	3 (6%)	3 (6%)	1 (2%)	7 (14%)
Hepatoblastoma, Multiple		1 (2%)	3 (6%)	7 (14%)
Hepatocellular Adenoma	11 (22%)	7 (14%)	15 (31%)	8 (16%)
Hepatocellular Adenoma, Multiple	15 (30%)	25 (50%)	16 (33%)	33 (66%)
Hepatocellular Carcinoma	7 (14%)	8 (16%)	11 (22%)	6 (12%)
Hepatocellular Carcinoma, Multiple	5 (10%)	3 (6%)	18 (37%)	8 (16%)
Hepatocholangiocarcinoma		3 (6%)	1 (2%)	
Hepatocholangioma				1 (2%)
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (2%)			
Mesentery	(7)	(3)	(2)	(2)
Fibrosarcoma		1 (33%)		
Hepatoblastoma, Metastatic, Liver		1 (33%)		
Hepatocellular Carcinoma, Metastatic, Liver	1 (14%)			
Leiomyosarcoma, Metastatic, Stomach, Forestomach		1 (33%)		
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (14%)			
Oral Mucosa	(0)	(1)	(0)	(2)
Pancreas	(50)	(50)	(50)	(50)
Carcinoma			1 (2%)	
Hemangioma		1 (2%)		
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Leiomyosarcoma, Metastatic, Stomach, Glandular		1 (2%)		
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			
Hemangiosarcoma	1 (2%)			
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma	1 (2%)			
Squamous Cell Papilloma	1 (2%)	1 (2%)	1 (2%)	
Squamous Cell Papilloma, Multiple		1 (2%)		
Stomach, Glandular	(50)	(47)	(47)	(49)
Carcinoma			1 (2%)	

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Lab: BAT

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Carcinoma, Metastatic, Intestine Small, Duodenum				1 (2%)
Carcinoma, Metastatic, Pancreas			1 (2%)	
Leiomyosarcoma		1 (2%)		
Tooth	(30)	(37)	(32)	(32)
<b>CARDIOVASCULAR SYSTEM</b>				
Blood Vessel	(49)	(50)	(49)	(49)
Heart	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)		
Hemangiosarcoma		1 (2%)		
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma			2 (4%)	
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)		
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign		1 (2%)		
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			1 (2%)
Parathyroid Gland	(48)	(44)	(48)	(44)
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Intermedia, Adenoma		1 (2%)	1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma		1 (2%)		1 (2%)
Follicular Cell, Adenoma			1 (2%)	1 (2%)
<b>GENERAL BODY SYSTEM</b>				
None				

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Lab: BAT

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
<b>GENITAL SYSTEM</b>				
Coagulating Gland	(1)	(0)	(0)	(0)
Epididymis	(50)	(50)	(50)	(50)
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Leiomyosarcoma, Metastatic, Stomach, Glandular		1 (2%)		
Preputial Gland	(50)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (2%)			
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma				1 (2%)
Interstitial Cell, Adenoma		1 (2%)		1 (2%)

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)	1 (2%)	1 (2%)	
Lymph Node	(2)	(2)	(0)	(4)
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Lymph Node, Mesenteric	(48)	(48)	(49)	(50)
Hemangiosarcoma		1 (2%)		
Spleen	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Thymus	(49)	(47)	(46)	(45)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver			1 (2%)	
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach	1 (2%)			
Thymoma Benign	1 (2%)			

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B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(2)	(0)	(0)	(0)
Skin	(50)	(50)	(50)	(50)
Epidermis, Keratoacanthoma			1 (2%)	
Subcutaneous Tissue, Fibrosarcoma	1 (2%)	1 (2%)		
Subcutaneous Tissue, Hemangiosarcoma		2 (4%)	1 (2%)	
Subcutaneous Tissue, Lipoma				1 (2%)
Subcutaneous Tissue, Neural Crest Tumor			1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant			1 (2%)	
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(0)	(2)	(0)
Hemangiosarcoma			2 (100%)	
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Granular Cell Tumor Benign	1 (2%)			
<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	4 (8%)	6 (12%)	6 (12%)	8 (16%)
Alveolar/Bronchiolar Adenoma, Multiple		1 (2%)	2 (4%)	
Alveolar/Bronchiolar Carcinoma	3 (6%)	7 (14%)	5 (10%)	4 (8%)
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)			1 (2%)
Carcinoma, Metastatic, Harderian Gland				1 (2%)
Hepatoblastoma, Metastatic, Liver		1 (2%)	1 (2%)	2 (4%)
Hepatocellular Carcinoma, Metastatic, Liver	6 (12%)	3 (6%)	10 (20%)	4 (8%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Nose	(50)	(50)	(50)	(50)

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

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Species/Strain: MICE/B6C3F1

Lab: BAT

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Trachea	(50)	(50)	(50)	(50)

## SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma	6 (12%)	6 (12%)	7 (14%)	3 (6%)
Carcinoma	1 (2%)	1 (2%)		1 (2%)
Bilateral, Adenoma		1 (2%)		

## URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)		1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Urethra	(0)	(1)	(0)	(0)
Urinary Bladder	(50)	(50)	(50)	(50)

## SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	2 (4%)	1 (2%)		1 (2%)
Lymphoma Malignant	3 (6%)	1 (2%)	1 (2%)	5 (10%)

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

\* Number of animals with any tissue examined microscopically

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Species/Strain: MICE/B6C3F1

Lab: BAT

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
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**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	48	45	48	48
Total Primary Neoplasms	78	95	103	107
Total Animals with Benign Neoplasms	33	40	39	42
Total Benign Neoplasms	44	53	53	61
Total Animals with Malignant Neoplasms	27	26	36	35
Total Malignant Neoplasms	34	42	49	46
Total Animals with Metastatic Neoplasms	7	7	10	9
Total Metastatic Neoplasms	16	13	14	11
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant			1	
Total Uncertain Neoplasms			1	

\*\*\* END OF MALE \*\*\*

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

b - Primary tumors: all tumors except metastatic tumors



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Species/Strain: MICE/B6C3F1

Lab: BAT

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
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**Disposition Summary**

Animals Initially In Study	50	50	50	50
Early Deaths				
Dosing Accident	1			
Moribund Sacrifice	10	6	15	3
Natural Death	6	4	9	2
Survivors				
Moribund Sacrifice			1	
Terminal Sacrifice	33	40	25	45
Animals Examined Microscopically	50	50	50	50

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	
Gallbladder	(49)	(50)	(50)	(50)
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum	1 (2%)			
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Leiomyosarcoma	1 (2%)			
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Leiomyosarcoma	1 (2%)			
Liver	(50)	(50)	(50)	(50)
Hemangiosarcoma, Multiple			1 (2%)	
Hepatoblastoma			1 (2%)	1 (2%)
Hepatocellular Adenoma	7 (14%)	11 (22%)	6 (12%)	7 (14%)
Hepatocellular Adenoma, Multiple		3 (6%)	2 (4%)	4 (8%)
Hepatocellular Carcinoma	6 (12%)	6 (12%)	8 (16%)	4 (8%)
Hepatocellular Carcinoma, Multiple		2 (4%)	1 (2%)	
Mesentery	(3)	(7)	(7)	(6)
Carcinoma, Metastatic, Kidney		1 (14%)		

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B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Hemangioma			1 (14%)	
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(49)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma	1 (2%)			
Stomach, Glandular	(48)	(50)	(49)	(50)
Tongue	(0)	(0)	(0)	(1)
Squamous Cell Papilloma				1 (100%)
Tooth	(6)	(9)	(9)	(11)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(50)	(50)	(50)
Hemangioma	1 (2%)			
Heart	(50)	(50)	(50)	(50)

## ENDOCRINE SYSTEM

Adrenal Cortex	(49)	(50)	(50)	(50)
Adenoma	1 (2%)			
Subcapsular, Adenoma	1 (2%)			
Adrenal Medulla	(49)	(50)	(50)	(50)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Carcinoma			1 (2%)	
Parathyroid Gland	(43)	(48)	(49)	(46)
Pituitary Gland	(49)	(50)	(50)	(49)
Pars Distalis, Adenoma	3 (6%)	4 (8%)		1 (2%)
Pars Intermedia, Adenoma	1 (2%)			
Thyroid Gland	(50)	(50)	(49)	(50)
C-cell, Carcinoma	1 (2%)			
Follicular Cell, Adenoma	1 (2%)			1 (2%)

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

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B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
<b>GENERAL BODY SYSTEM</b>				
Tissue NOS	(0)	(0)	(1)	(0)
<b>GENITAL SYSTEM</b>				
Clitoral Gland	(49)	(50)	(50)	(50)
Ovary	(50)	(50)	(50)	(50)
Cystadenoma	1 (2%)	4 (8%)	1 (2%)	4 (8%)
Hemangioma				1 (2%)
Bilateral, Tubulostromal Adenoma	1 (2%)			
Uterus	(50)	(50)	(50)	(50)
Carcinoma		1 (2%)		
Polyp Stromal				4 (8%)
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(9)	(5)	(6)	(1)
Lymph Node, Mandibular	(50)	(49)	(50)	(50)
Lymph Node, Mesenteric	(49)	(49)	(49)	(49)
Hemangiosarcoma			1 (2%)	
Spleen	(50)	(50)	(50)	(50)
Thymus	(49)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(50)	(50)	(50)	(50)
Carcinoma	1 (2%)			
Skin	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	
Subcutaneous Tissue, Fibrosarcoma			2 (4%)	

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Subcutaneous Tissue, Hemangioma				1 (2%)
Subcutaneous Tissue, Hemangiosarcoma, Multiple			1 (2%)	
Subcutaneous Tissue, Sarcoma	1 (2%)			

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(1)	(2)	(0)
Fibrosarcoma			1 (50%)	
Rhabdomyosarcoma			1 (50%)	
Schwannoma Malignant		1 (100%)		

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Meningioma Benign		1 (2%)		

## RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)	1 (2%)	3 (6%)	2 (4%)
Alveolar/Bronchiolar Carcinoma	2 (4%)	2 (4%)	3 (6%)	
Alveolar/Bronchiolar Carcinoma, Multiple		1 (2%)		
Carcinoma, Metastatic, Harderian Gland		1 (2%)		
Carcinoma, Metastatic, Thyroid Gland	1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver	2 (4%)	2 (4%)	2 (4%)	
Squamous Cell Carcinoma, Metastatic, Skin			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)

## SPECIAL SENSES SYSTEM

Ear	(2)	(0)	(0)	(0)
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B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	7 (14%)	7 (14%)	
Carcinoma		1 (2%)	1 (2%)	1 (2%)

## URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Bilateral, Renal Tubule, Carcinoma		1 (2%)		
Renal Tubule, Carcinoma, Multiple				1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)

## SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	1 (2%)			1 (2%)
Lymphoma Malignant	6 (12%)	9 (18%)	6 (12%)	3 (6%)

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

\* Number of animals with any tissue examined microscopically

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**Tumor Summary for Females**

Total Animals with Primary Neoplasms (b)	30	32	36	26
Total Primary Neoplasms	42	56	50	37
Total Animals with Benign Neoplasms	17	21	17	20
Total Benign Neoplasms	22	32	20	26
Total Animals with Malignant Neoplasms	19	19	26	9
Total Malignant Neoplasms	20	24	30	11
Total Animals with Metastatic Neoplasms	4	4	4	
Total Metastatic Neoplasms	4	4	4	
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant				
Total Uncertain Neoplasms				

\*\*\* 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