

Experiment Number: 03038 - 04

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

Date Report Requested: 06/26/2019

Test Type: CHRONIC

Sodium Tungstate Dihydrate

Time Report Requested: 10:11:56

Route: DOSED WATER

CAS Number: 10213-10-2

First Dose M/F: 01/17/12 / 01/16/12

Species/Strain: MICE/B6C3F1/N

Lab: BAT

Final Version 2

NTP Study Number: C03038
Lock Date: 05/25/2016
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

Test Type: CHRONIC

Sodium Tungstate Dihydrate

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Route: DOSED WATER

CAS Number: 10213-10-2

First Dose M/F: 01/17/12 / 01/16/12

Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE MALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Accidentally Killed	1			
Moribund Sacrifice	5	3	4	5
Natural Death	18	16	9	9
Survivors				
Moribund Sacrifice				1
Natural Death			2	
Terminal Sacrifice	26	31	35	35
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(48)	(47)	(50)	(49)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(49)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Carcinoma			2 (4%)	
Liver	(50)	(50)	(50)	(50)
Cholangiocarcinoma	1 (2%)	2 (4%)		
Hemangioma	1 (2%)			1 (2%)
Hemangiosarcoma	2 (4%)	3 (6%)	3 (6%)	1 (2%)
Hepatoblastoma	4 (8%)	2 (4%)	2 (4%)	
Hepatoblastoma, Multiple			1 (2%)	
Hepatocellular Adenoma	11 (22%)	12 (24%)	16 (32%)	10 (20%)
Hepatocellular Adenoma, Multiple	15 (30%)	13 (26%)	13 (26%)	12 (24%)
Hepatocellular Carcinoma	15 (30%)	14 (28%)	8 (16%)	13 (26%)
Hepatocellular Carcinoma, Multiple		6 (12%)	4 (8%)	1 (2%)
Hepatocholangiocarcinoma		1 (2%)		1 (2%)
Mesentery	(8)	(3)	(6)	(4)

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B6C3F1/N MICE MALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
Hemangiosarcoma	1 (13%)			
Hepatocholangiocarcinoma, Metastatic, Liver				1 (25%)
Oral Mucosa	(0)	(1)	(0)	(0)
Pancreas	(50)	(50)	(50)	(50)
Hepatocholangiocarcinoma, Metastatic, Liver				1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tooth	(42)	(33)	(44)	(35)
Odontoma	1 (2%)	2 (6%)	1 (2%)	

CARDIOVASCULAR SYSTEM

Blood Vessel	(49)	(50)	(50)	(50)
Hepatocellular Carcinoma, Metastatic, Liver		1 (2%)		
Aorta, Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Heart	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)	
Hemangioma		1 (2%)		
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Atrium, Hemangiosarcoma		1 (2%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Bilateral, Subcapsular, Adenoma, Multiple	1 (2%)			
Subcapsular, Adenoma		2 (4%)	1 (2%)	1 (2%)
Adrenal Medulla	(49)	(50)	(48)	(50)
Pheochromocytoma Benign		2 (4%)		
Pheochromocytoma Malignant				1 (2%)
Islets, Pancreatic	(47)	(50)	(49)	(50)
Adenoma	1 (2%)		3 (6%)	1 (2%)
Parathyroid Gland	(44)	(43)	(48)	(43)

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Lab: BAT

B6C3F1/N MICE MALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
Pituitary Gland	(48)	(50)	(49)	(50)
Schwannoma Malignant, Metastatic, Spinal Cord	1 (2%)			
Pars Distalis, Adenoma				1 (2%)
Thyroid Gland	(50)	(49)	(50)	(50)
Follicular Cell, Adenoma			2 (4%)	

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(0)	(0)	(1)	(0)
Epididymis	(50)	(49)	(50)	(50)
Hemangioma		1 (2%)		
Hepatocholangiocarcinoma, Metastatic, Liver				1 (2%)
Preputial Gland	(49)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Seminal Vesicle	(50)	(50)	(50)	(50)
Carcinoma				1 (2%)
Testis	(50)	(50)	(50)	(50)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hemangiosarcoma	2 (4%)	2 (4%)	1 (2%)	
Schwannoma Malignant, Metastatic, Spinal Cord	1 (2%)			
Lymph Node	(3)	(4)	(6)	(1)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (25%)		
Hemangiosarcoma			1 (17%)	
Hepatocellular Carcinoma, Metastatic, Liver		1 (25%)		
Hepatocholangiocarcinoma, Metastatic, Liver		1 (25%)		1 (100%)

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Lab: BAT

B6C3F1/N MICE MALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
Lymph Node, Mandibular Carcinoma, Metastatic, Harderian Gland	(48)	(50)	(49) 1 (2%)	(48)
Lymph Node, Mesenteric Hemangiosarcoma	(50)	(46)	(48) 1 (2%)	(48)
Hepatocholangiocarcinoma, Metastatic, Liver				1 (2%)
Spleen Hemangiosarcoma	(49) 4 (8%)	(50) 2 (4%)	(49) 2 (4%)	(50) 1 (2%)
Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	(45)	(44) 1 (2%)	(44) 1 (2%)	(41)
Hepatocholangiocarcinoma, Metastatic, Liver				1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(1)	(2)	(2)	(4)
Skin Pinna, Sarcoma	(50)	(50)	(50) 1 (2%)	(50)

MUSCULOSKELETAL SYSTEM

Bone Hemangiosarcoma	(50) 1 (2%)	(50)	(50)	(50)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Schwannoma Malignant, Metastatic, Spinal Cord	1 (2%)			
Skeletal Muscle Hemangiosarcoma	(1) 1 (100%)	(1)	(1)	(0)
Hepatoblastoma, Metastatic, Liver			1 (100%)	
Hepatocellular Carcinoma, Metastatic, Liver		1 (100%)		

NERVOUS SYSTEM

Brain Ependymoma Malignant	(50)	(50)	(50) 1 (2%)	(50)
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Lab: BAT

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Schwannoma Malignant, Metastatic, Spinal Cord	1 (2%)			
Brain Trigeminal Ganglion	(0)	(0)	(1)	(0)
Peripheral Nerve	(0)	(0)	(1)	(0)
Spinal Cord	(1)	(0)	(1)	(0)
Schwannoma Malignant	1 (100%)			

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	5 (10%)	8 (16%)	7 (14%)	9 (18%)
Alveolar/Bronchiolar Adenoma, Multiple			2 (4%)	1 (2%)
Alveolar/Bronchiolar Carcinoma	1 (2%)	4 (8%)	2 (4%)	2 (4%)
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)	2 (4%)	1 (2%)	2 (4%)
Carcinoma, Metastatic, Harderian Gland		1 (2%)		
Hemangiosarcoma		2 (4%)		
Hepatoblastoma, Metastatic, Liver			2 (4%)	
Hepatocellular Carcinoma, Metastatic, Liver	6 (12%)	11 (22%)	7 (14%)	1 (2%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		1 (2%)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (2%)
Serosa, Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Schwannoma Malignant, Metastatic, Spinal Cord	1 (2%)			
Trachea	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Ear	(1)	(0)	(0)	(0)
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	1 (2%)	1 (2%)	6 (12%)
Carcinoma	1 (2%)	4 (8%)	2 (4%)	

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URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)			
Renal Tubule, Adenoma			1 (2%)	
Renal Tubule, Carcinoma				2 (4%)
Ureter	(1)	(0)	(0)	(0)
Urethra	(1)	(0)	(0)	(0)
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Amyloid		1 (2%)		
Histiocytic Sarcoma	1 (2%)	1 (2%)		1 (2%)
Lymphoma Malignant	5 (10%)	1 (2%)	9 (18%)	
Mast Cell Tumor Malignant	1 (2%)			

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* Number of animals with any tissue examined microscopically

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Lab: BAT

B6C3F1/N MICE MALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	42	47	44	44
Total Primary Neoplasms	80	89	88	68
Total Animals with Benign Neoplasms	31	32	36	34
Total Benign Neoplasms	37	42	47	42
Total Animals with Malignant Neoplasms	30	31	29	23
Total Malignant Neoplasms	43	47	41	26
Total Animals with Metastatic Neoplasms	7	14	11	3
Total Metastatic Neoplasms	11	23	13	9
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant				
Total Uncertain Neoplasms				

*** END OF MALE ***

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b - Primary tumors: all tumors except metastatic tumors

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Lab: BAT

B6C3F1/N MICE FEMALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
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Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	2	1	2	
Natural Death	10	8	10	10
Survivors				
Natural Death		1		
Terminal Sacrifice	38	40	38	40
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(48)	(50)	(47)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(49)	(50)	(50)	(49)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(49)	(50)
Hemangiosarcoma			1 (2%)	
Liver	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Hemangiosarcoma		1 (2%)		
Hepatocellular Adenoma	6 (12%)	9 (18%)	4 (8%)	7 (14%)
Hepatocellular Adenoma, Multiple	5 (10%)	10 (20%)	7 (14%)	3 (6%)
Hepatocellular Carcinoma	2 (4%)	8 (16%)	3 (6%)	3 (6%)
Hepatocellular Carcinoma, Multiple			1 (2%)	
Hepatocholangiocarcinoma				1 (2%)
Mesentery	(10)	(12)	(13)	(7)
Fibrous Histiocytoma		1 (8%)		
Fibrous Histiocytoma, Metastatic, Skin	1 (10%)			
Hemangiosarcoma			1 (8%)	
Oral Mucosa	(1)	(0)	(1)	(0)
Pancreas	(50)	(50)	(50)	(50)

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B6C3F1/N MICE FEMALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Hemangiosarcoma			1 (2%)	
Salivary Glands	(50)	(50)	(49)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma			1 (2%)	
Squamous Cell Papilloma, Multiple	1 (2%)			
Stomach, Glandular	(50)	(50)	(50)	(50)
Hemangiosarcoma			1 (2%)	
Tongue	(1)	(1)	(0)	(0)
Squamous Cell Papilloma	1 (100%)	1 (100%)		
Tooth	(2)	(5)	(2)	(1)

CARDIOVASCULAR SYSTEM

Blood Vessel	(47)	(50)	(49)	(50)
Heart	(50)	(50)	(50)	(50)
Pericardium, Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Pericardium, Liposarcoma, Metastatic, Skin	1 (2%)			

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Subcapsular, Adenoma		1 (2%)		
Adrenal Medulla	(50)	(50)	(50)	(49)
Islets, Pancreatic	(48)	(50)	(49)	(50)
Adenoma		1 (2%)	1 (2%)	
Carcinoma		1 (2%)		
Parathyroid Gland	(45)	(40)	(42)	(43)
Pituitary Gland	(50)	(50)	(47)	(50)
Hemangiosarcoma				1 (2%)
Pars Distalis, Adenoma	2 (4%)		5 (11%)	1 (2%)
Pars Distalis, Carcinoma		1 (2%)		
Thyroid Gland	(49)	(50)	(49)	(50)
Follicular Cell, Adenoma	1 (2%)			1 (2%)

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B6C3F1/N MICE FEMALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
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GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(49)	(49)	(49)	(49)
Ovary	(49)	(49)	(50)	(50)
Cystadenoma	2 (4%)	1 (2%)	5 (10%)	4 (8%)
Cystadenoma, Multiple	1 (2%)			
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Luteoma	1 (2%)			
Tubulostromal Adenoma		1 (2%)	1 (2%)	
Uterus	(50)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)		1 (2%)	
Leiomyosarcoma			1 (2%)	
Polyp Stromal			2 (4%)	1 (2%)
Vagina	(50)	(50)	(50)	(50)
Leiomyosarcoma				1 (2%)
Polyp			1 (2%)	

HEMATOPOIETIC SYSTEM

Bone Marrow	(48)	(50)	(49)	(48)
Hemangiosarcoma		1 (2%)	1 (2%)	
Lymph Node	(9)	(8)	(8)	(3)
Fibrous Histiocytoma		1 (13%)		
Lymph Node, Mandibular	(49)	(49)	(48)	(50)
Fibrous Histiocytoma		1 (2%)		
Lymph Node, Mesenteric	(49)	(49)	(49)	(50)
Fibrous Histiocytoma		1 (2%)		
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Hemangiosarcoma			1 (2%)	

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Spleen	(50)	(48)	(49)	(50)
Fibrous Histiocytoma		1 (2%)		
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Hemangiosarcoma		1 (2%)		
Thymus	(49)	(48)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Liposarcoma, Metastatic, Skin	1 (2%)			

INTEGUMENTARY SYSTEM

Mammary Gland	(49)	(50)	(50)	(49)
Adenocarcinoma		1 (2%)		
Duct, Adenocarcinoma	1 (2%)			
Skin	(50)	(50)	(50)	(50)
Fibrosarcoma		1 (2%)	1 (2%)	
Fibrous Histiocytoma	1 (2%)	1 (2%)		1 (2%)
Liposarcoma	1 (2%)			
Melanoma Malignant			1 (2%)	
Sarcoma		1 (2%)		
Schwannoma Malignant			2 (4%)	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(2)	(0)	(1)	(0)
Sarcoma	1 (50%)			
Schwannoma Malignant, Metastatic, Skin			1 (100%)	

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
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B6C3F1/N MICE FEMALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
Carcinoma, Metastatic, Pituitary Gland		1 (2%)		
Meninges, Hemangiosarcoma				1 (2%)

RESPIRATORY SYSTEM

Larynx	(0)	(1)	(0)	(0)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	2 (4%)	2 (4%)		1 (2%)
Alveolar/Bronchiolar Carcinoma	1 (2%)	2 (4%)	5 (10%)	4 (8%)
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)	1 (2%)		1 (2%)
Carcinoma, Metastatic, Uncertain Primary Site	1 (2%)			1 (2%)
Fibrous Histiocytoma, Metastatic, Skin	1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)	3 (6%)	1 (2%)	
Hepatocholangiocarcinoma, Metastatic, Liver				1 (2%)
Liposarcoma, Metastatic, Skin	1 (2%)			
Osteosarcoma, Metastatic, Uncertain Primary Site			1 (2%)	
Nose	(50)	(50)	(50)	(50)
Hemangioma				1 (2%)
Trachea	(50)	(50)	(48)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(48)	(50)
Harderian Gland	(50)	(50)	(48)	(50)
Adenoma	1 (2%)	5 (10%)	1 (2%)	2 (4%)
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Urinary Bladder	(50)	(50)	(49)	(50)

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* Number of animals with any tissue examined microscopically

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Lab: BAT

B6C3F1/N MICE FEMALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	2 (4%)	1 (2%)	3 (6%)	1 (2%)
Lymphoma Malignant	4 (8%)	13 (26%)	8 (16%)	9 (18%)
Mesothelioma Malignant		1 (2%)		

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

* Number of animals with any tissue examined microscopically

Experiment Number: 03038 - 04

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

Date Report Requested: 06/26/2019

Test Type: CHRONIC

Sodium Tungstate Dihydrate

Time Report Requested: 10:11:56

Route: DOSED WATER

CAS Number: 10213-10-2

First Dose M/F: 01/17/12 / 01/16/12

Species/Strain: MICE/B6C3F1/N

Lab: BAT

B6C3F1/N MICE FEMALE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	31	36	40	27
Total Primary Neoplasms	38	71	60	44
Total Animals with Benign Neoplasms	20	24	23	16
Total Benign Neoplasms	23	31	28	21
Total Animals with Malignant Neoplasms	14	27	23	19
Total Malignant Neoplasms	15	40	32	23
Total Animals with Metastatic Neoplasms	4	4	3	2
Total Metastatic Neoplasms	16	4	3	3
Total Animals with Malignant Neoplasms Uncertain Primary Site	1		1	1
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