

Experiment Number: 20701 - 01

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

Date Report Requested: 02/22/2013

Test Type: 90-DAY

Nanoscale material (Fullerene-C60 1 micron)

Time Report Requested: 07:58:31

Route: RESPIRATORY EXPOSURE NASAL

CAS Number: 99685-96-8

First Dose M/F: 11/05/07 / 11/05/07

Species/Strain: RATS/Wistar Han

Lab: BNW

F2_Rev.1_RE

NTP Study Number: C20701
Lock Date: 02/24/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.1.1_001
PWG Approval Date: NONE

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Species/Strain: RATS/Wistar Han

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Wistar Han RATS MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

Disposition Summary

Animals Initially In Study

10

10

10

10

Early Deaths

Survivors

Terminal Sacrifice

10

10

10

10

Animals Examined Microscopically

10

10

10

10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(1)	(0)	(10)
Pancreas	(10)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(7)
Pituitary Gland	(10)	(0)	(0)	(10)

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

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Wistar Han RATS MALE	0 mg/m3	2 mg/m3	15 mg/m3	30 mg/m3
Thyroid Gland	(10)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(10)	(10)	(10)
Preputial Gland	(10)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(10)
Testes	(10)	(10)	(10)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Bronchial	(7)	(5)	(6)	(8)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Lymph Node, Mediastinal	(8)	(9)	(8)	(9)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(5)	(0)	(0)	(3)
Skin	(10)	(0)	(0)	(9)

MUSCULOSKELETAL SYSTEM

Bone	(10)	(0)	(0)	(10)
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a - Number of animals examined microscopically at site and number of animals with lesion

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Lab: BNW

Wistar Han RATS MALE	0 mg/m3	2 mg/m3	15 mg/m3	30 mg/m3
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NERVOUS SYSTEM				
Brain	(10)	(0)	(0)	(10)

RESPIRATORY SYSTEM				
Larynx	(10)	(0)	(0)	(10)
Lung	(10)	(10)	(9)	(10)
Nose	(10)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(10)

SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(10)

URINARY SYSTEM				
Kidney	(10)	(0)	(0)	(10)
Urinary Bladder	(10)	(0)	(0)	(10)

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Wistar Han RATS MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

Tumor Summary for Males

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

Total Animals with Malignant Neoplasms

Uncertain Primary Site

Total Animals with Neoplasms Uncertain-

Benign or Malignant

Total Uncertain Neoplasms

*** 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: RATS/Wistar Han

Lab: BNW

Wistar Han RATS FEMALE	0 mg/m3	2 mg/m3	15 mg/m3	30 mg/m3
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Disposition Summary

Animals Initially In Study	10	10	10	10
Early Deaths				
Moribund Sacrifice		1		
Survivors				
Terminal Sacrifice	10	9	10	10
Animals Examined Microscopically	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(1)	(0)	(10)
Intestine Large, Cecum	(10)	(1)	(0)	(10)
Intestine Large, Colon	(10)	(1)	(0)	(10)
Intestine Large, Rectum	(10)	(1)	(0)	(10)
Intestine Small, Duodenum	(10)	(1)	(0)	(10)
Intestine Small, Ileum	(10)	(1)	(0)	(10)
Intestine Small, Jejunum	(10)	(1)	(0)	(10)
Liver	(10)	(1)	(0)	(10)
Pancreas	(10)	(1)	(0)	(10)
Salivary Glands	(10)	(1)	(0)	(10)
Stomach, Forestomach	(10)	(1)	(0)	(10)
Stomach, Glandular	(10)	(1)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(1)	(0)	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(1)	(0)	(10)
Adrenal Medulla	(10)	(1)	(0)	(9)
Islets, Pancreatic	(10)	(1)	(0)	(10)
Parathyroid Gland	(9)	(1)	(0)	(9)

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Pituitary Gland	(10)	(1)	(0)	(10)
Thyroid Gland	(10)	(1)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(10)	(1)	(0)	(10)
Ovary	(10)	(1)	(0)	(10)
Uterus	(10)	(1)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(1)	(0)	(10)
Lymph Node, Bronchial	(6)	(5)	(7)	(5)
Lymph Node, Mandibular	(10)	(1)	(0)	(10)
Lymph Node, Mediastinal	(8)	(10)	(8)	(9)
Lymph Node, Mesenteric	(10)	(1)	(0)	(10)
Spleen	(10)	(1)	(0)	(10)
Thymus	(10)	(1)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(1)	(0)	(10)
Skin	(10)	(1)	(0)	(10)

MUSCULOSKELETAL SYSTEM

Bone	(10)	(1)	(0)	(10)
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NERVOUS SYSTEM				
Brain	(10)	(1)	(0)	(10)
RESPIRATORY SYSTEM				
Larynx	(10)	(1)	(0)	(10)
Lung	(10)	(10)	(10)	(10)
Nose	(10)	(1)	(0)	(10)
Trachea	(10)	(1)	(0)	(10)
SPECIAL SENSES SYSTEM				
Eye	(10)	(1)	(0)	(10)
Harderian Gland	(10)	(1)	(0)	(10)
URINARY SYSTEM				
Kidney	(10)	(1)	(0)	(10)
Urinary Bladder	(10)	(1)	(0)	(10)

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Wistar Han RATS FEMALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

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