

**Experiment Number:** 60311 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Date Report Requested:** 09/13/2016

**Test Type:** 14-DAY

Cobalt

**Time Report Requested:** 14:38:57

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** 7440-48-4

**First Dose M/F:** 08/02/04 / 08/02/04

**Species/Strain:** MICE/B6C3F1

**Lab:** BNW

**NTP Study Number:** C60311  
**Lock Date:** 11/29/2005  
**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: 14-DAY

Cobalt

Time Report Requested: 14:38:57

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 08/02/04 / 08/02/04

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
------------------	---------	-----------	---------	----------	----------	----------

**Disposition Summary**

Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Natural Death						3
Survivors						
Terminal Sacrifice	5	5	5	5	5	2
Animals Examined Microscopically	5	5	5	5	5	5

## ALIMENTARY SYSTEM

Liver	(5)	(0)	(0)	(0)	(0)	(5)
-------	-----	-----	-----	-----	-----	-----

## CARDIOVASCULAR SYSTEM

None

## ENDOCRINE SYSTEM

Thyroid Gland	(3)	(0)	(0)	(0)	(0)	(5)
---------------	-----	-----	-----	-----	-----	-----

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

None

## HEMATOPOIETIC SYSTEM

Spleen	(0)	(1)	(0)	(1)	(0)	(0)
--------	-----	-----	-----	-----	-----	-----

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: 14-DAY

Cobalt

Time Report Requested: 14:38:57

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 08/02/04 / 08/02/04

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
------------------	---------	-----------	---------	----------	----------	----------

## INTEGUMENTARY SYSTEM

None

## MUSCULOSKELETAL SYSTEM

None

## NERVOUS SYSTEM

None

## RESPIRATORY SYSTEM

Lung	(5)	(5)	(5)	(5)	(5)	(5)
Inflammation, Acute						3 [1.7]
Alveolar/bronchiolar Epithelium, Karyomegaly			4 [1.0]	5 [1.0]	5 [1.8]	4 [1.5]
Alveolus, Infiltration Cellular, Histiocyte		2 [1.0]	5 [1.0]	5 [1.4]	5 [2.4]	5 [2.0]
Bronchiole, Epithelium, Necrosis						1 [1.0]
Bronchiole, Epithelium, Vacuolization Cytoplasmic		4 [1.0]	3 [1.0]	5 [1.6]	3 [1.0]	3 [1.3]
Interstitium, Fibrosis				3 [1.0]	5 [2.2]	3 [2.7]
Nose	(5)	(5)	(5)	(5)	(5)	(5)
Inflammation, Acute			1 [1.0]	5 [2.4]	5 [1.6]	5 [1.8]
Olfactory Epithelium, Atrophy		5 [1.0]	5 [1.0]	5 [1.8]	5 [1.8]	4 [2.0]
Olfactory Epithelium, Necrosis		2 [1.0]	3 [1.0]		5 [1.2]	5 [1.4]
Respiratory Epithelium, Metaplasia, Squamous				4 [1.0]	4 [1.0]	2 [1.0]
Respiratory Epithelium, Necrosis						2 [1.0]
Respiratory Epithelium, Vacuolization Cytoplasmic		4 [1.0]	5 [1.0]	4 [1.0]	5 [1.2]	5 [1.2]

## SPECIAL SENSES SYSTEM

None

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 60311 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 09/13/2016

Test Type: 14-DAY

Cobalt

Time Report Requested: 14:38:57

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 08/02/04 / 08/02/04

Species/Strain: MICE/B6C3F1

Lab: BNW

---

B6C3F1 MICE MALE

CONTROL

2.5 MG/M3

5 MG/M3

10 MG/M3

20 MG/M3

40 MG/M3

---

URINARY SYSTEM

Kidney

(5)

(0)

(0)

(0)

(0)

(5)

---

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

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: 14-DAY

Cobalt

Time Report Requested: 14:38:57

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 08/02/04 / 08/02/04

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
--------------------	---------	-----------	---------	----------	----------	----------

**Disposition Summary**

Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Natural Death						3
Survivors						
Terminal Sacrifice	5	5	5	5	5	2
Animals Examined Microscopically	5	5	5	5	5	5

## ALIMENTARY SYSTEM

Liver	(5)	(0)	(0)	(0)	(0)	(5)
-------	-----	-----	-----	-----	-----	-----

## CARDIOVASCULAR SYSTEM

None

## ENDOCRINE SYSTEM

Thyroid Gland	(5)	(0)	(0)	(0)	(0)	(5)
---------------	-----	-----	-----	-----	-----	-----

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Ovary	(0)	(1)	(0)	(0)	(0)	(0)
-------	-----	-----	-----	-----	-----	-----

## HEMATOPOIETIC SYSTEM

Spleen	(0)	(0)	(0)	(0)	(0)	(1)
--------	-----	-----	-----	-----	-----	-----

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: 14-DAY

Cobalt

Time Report Requested: 14:38:57

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 08/02/04 / 08/02/04

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
--------------------	---------	-----------	---------	----------	----------	----------

## INTEGUMENTARY SYSTEM

None

## MUSCULOSKELETAL SYSTEM

None

## NERVOUS SYSTEM

None

## RESPIRATORY SYSTEM

Lung	(5)	(5)	(5)	(5)	(5)	(5)
Inflammation, Acute			2 [1.0]	1 [1.0]	3 [1.0]	2 [1.5]
Alveolar/bronchiolar Epithelium, Karyomegaly		3 [1.0]	4 [1.0]	5 [1.2]	4 [1.3]	4 [1.0]
Alveolus, Infiltration Cellular, Histiocyte		2 [1.0]	5 [1.4]	5 [1.6]	5 [2.6]	5 [2.4]
Bronchiole, Epithelium, Vacuolization Cytoplasmic		2 [1.0]	4 [1.0]	3 [1.7]	2 [1.0]	1 [1.0]
Interstitial, Fibrosis				2 [1.0]	5 [2.8]	2 [3.5]
Nose	(5)	(5)	(5)	(5)	(5)	(5)
Inflammation, Acute			5 [2.0]	5 [2.6]	5 [2.4]	5 [2.2]
Olfactory Epithelium, Atrophy		5 [1.4]	5 [1.6]	5 [1.8]	5 [2.2]	3 [2.0]
Olfactory Epithelium, Necrosis		3 [1.0]	5 [1.0]	2 [1.5]	4 [1.5]	3 [1.7]
Respiratory Epithelium, Metaplasia, Squamous				1 [1.0]	3 [1.0]	1 [1.0]
Respiratory Epithelium, Necrosis						1 [2.0]
Respiratory Epithelium, Vacuolization Cytoplasmic		5 [1.0]	5 [1.0]	5 [1.2]	4 [1.0]	4 [1.0]

## SPECIAL SENSES SYSTEM

None

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 60311 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 09/13/2016

Test Type: 14-DAY

Cobalt

Time Report Requested: 14:38:57

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 7440-48-4

First Dose M/F: 08/02/04 / 08/02/04

Species/Strain: MICE/B6C3F1

Lab: BNW

---

B6C3F1 MICE FEMALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
--------------------	---------	-----------	---------	----------	----------	----------

---

URINARY SYSTEM

Kidney	(5)	(0)	(0)	(0)	(0)	(5)
--------	-----	-----	-----	-----	-----	-----

---

\*\*\* END OF REPORT \*\*\*

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)